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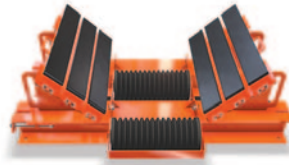
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OCTOBER 2025 issue

featuring...



## TRADE & COMMODITIES

Grain and soya trade pickup expected

2

BARRIERS FOR EUROPE'S COAL IMPORTS PREVAIL

4

HIGH EXPORTS ROB STEEL OF LEVEL PLAYING FIELD

12

## SHIPPING & TRANSPORT

Steelpaint coating: breakthrough in Wilhelmshaven dock gate renewal

15

Successful installation of Anemol Rotor Sails on U-Ming's 'Grand Pioneer' VLOC

16

WATER RELAY TEAMS: FLOATING CRANES, OFFSHORE STEVEDORING, TRANSSHIPMENT & SELF-UNLOADERS

19

## PORTS, TERMINALS & LOGISTICS

Brazil restarts coal imports from Argentina

29

HOST expands terminal portfolio with acquisition of Impala Terminals Burnside

30

Steelpaint coating: breakthrough in Wilhelmshaven dock gate renewal

31

Landlord Port of Brussels' diversification helps weather throughput fluctuations

32

ABP to invest £15 million to bring forward new industrial open storage sites

34

NSBT CELEBRATES TEN YEARS OF GROWTH AND PARTNERSHIP

35

## ENGINEERING & EQUIPMENT

TJSC "RIKON" wins tender to supply double jib level luffing cranes to France

37

MOBILE SHIP-UNLOADERS: UNLEASHING THE POTENTIAL OF MULTIPURPOSE PORTS

40

STATE-OF-THE-ART STOCKYARDS: EQUIPPED FOR ALL EVENTUALITIES

44

GETTING A LOAD OF... MODERN BULK LOADING TECHNOLOGIES

74

BIOMASS HANDLING TECHNOLOGIES: SERVING A GREENER FUTURE AS FOSSIL FUEL USAGE FALLS

94

CRANK THAT DIAL: BULK HANDLING DRIVES, SYSTEMS & CONTROLS

105

## COAL HANDLING DIRECTORY

125



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# Grain and soya trade pickup expected

**S**upport for commodity import demand in a range of countries seems to be improving based on recent signs. Nevertheless weakening influences elsewhere are still prominent, suggesting that world seaborne dry bulk trade growth may be minimal or nil in 2025 as a whole and some restraints may continue into next year.

In the principal countries affecting global dry bulk commodity import demand, this year's economic growth remains lacklustre and there are no indications at present of an upturn in 2026. A slightly more encouraging perspective, in a recent OECD organization report published last month observed that "global growth was more resilient than anticipated in the first half of 2025". But forecast world gross domestic product growth next year is estimated at below the current year's estimated 3.2%.

## GRAIN & SOYA

In the new 2025/26 marketing year now beginning, prospects for world grain and soya trade point to a recovery after the downturn seen in the previous period. Lower imports into China were the biggest influence on the reduced world volume in 2024/25, and an expected revival in Chinese buying is expected to be a large contributor to the global upturn during the twelve months ahead.

The outlook for a part of the segment — soyabean and meal trade — is shown by the figures in table 1. US

Department of Agriculture calculations suggest that soya trade in the current marketing year starting October could grow by 9.4mt (million tonnes) or 4% to 264.9mt, following a 3% decline to 255.5mt in the preceding period. While European imports may weaken, cargoes to Asian and some other destinations may strengthen, boosting overall activity.

## COAL

Trends in recent months have tended to confirm expectations of a reduction in global seaborne coal trade during 2025 as a whole after continued expansion in the past few years. Currently further weakening looks quite likely next year also. Clear signs have been pointing for some time to a downwards trajectory in this trade.

Numerous Asian importers are experiencing adverse influences on coal import demand both in the coking coal and the dominant steam coal categories. Weaker steel industry activity has affected coking coal imports negatively. In India and China higher production of steam coal in domestic mines, more electricity generation from renewable sources and other factors have caused coal imports growth to moderate or reductions to unfold.

## IRON ORE

Positive drivers of iron ore trade have been largely absent in 2025, and the result may be a flat global total compared with last year's 1,600mt. This

possible outcome mainly reflects a lack of further growth in China's imports comprising three-quarters of the total. But slacker buying patterns are also evident in many other steel raw materials importing countries.

During the first eight months of 2025, China's iron ore imports were about 2% lower than the volume seen in last year's same period, at 802mt. Weaker requirements reflected lower crude steel production, which was down by 3% to 672mt in that period.

Expectations for the current year as a whole still suggest at least a marginal decrease in iron ore imports, and there are no convincing indications yet of any reversal of the trend in the following twelve months.

## MINOR BULKS

Recently some elements of the extensive minor bulk commodity trades segment have been performing solidly, and the result may be a sizeable advance in the total during 2025. Among notable positive contributions, bauxite/alumina movements have been showing signs of vigorous expansion.

## BULK CARRIER FLEET

The Panamax (70–99,999 deadweight tonnes) size group including Kamsarmax vessels — comprising a quarter of the world bulk carrier fleet — continues to grow steadily at over 3% annually. Table 2 shows how the main components are evolving.

**TABLE 1: WORLD SOYABEANS AND SOYAMEAL IMPORTS (MILLION TONNES)**

	2020/21	2021/22	2022/23	2023/24*	2024/25*	2025/26*
European Union	31.3	31.0	29.1	30.0	34.5	31.9
China	99.8	90.4	104.5	112.0	106.6	112.1
Other Asia	38.4	38.2	36.7	38.2	41.0	43.1
Others	62.1	62.0	61.5	67.9	73.4	77.8
<b>World total</b>	<b>231.6</b>	<b>221.6</b>	<b>231.8</b>	<b>248.1</b>	<b>255.5</b>	<b>264.9</b>
% change from previous year	+1.1	-4.2	+4.4	+7.1	+2.9	+3.6
source: US Dept of Agriculture, 12 September 2025      October/September marketing years      * forecast						

**TABLE 2: PANAMAX (70–99,999DWT) BULK CARRIER FLEET (MILLION DEADWEIGHT TONNES)**

	2020	2021	2022	2023	2024	2025*
Newbuilding deliveries	12.0	8.6	9.8	10.9	10.0	10.5
Scrapping	1.0	0.7	0.7	2.3	1.6	1.5
Losses	0.0	0.0	0.0	0.0	0.2	0.0
Plus/minus adjustments	-0.1	0.0	0.0	0.0	0.0	-0.2
<b>World fleet at end of year</b>	<b>228.5</b>	<b>236.3</b>	<b>245.4</b>	<b>254.0</b>	<b>262.2</b>	<b>271.0</b>
% change from previous year-end	+5.0	+3.5	+3.9	3.5	3.2	3.4
source: Clarksons (historical data) & BSA      *BSA September 2025 estimate						

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# Barriers for Europe's coal imports prevail



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**Richard Scott, Bulk Shipping Analysis**

Over the past couple of years a dramatic reduction in coal imports into Europe has unfolded, and restraints look set to continue. Since the upsurge seen three years ago, boosted by the effects of the energy crisis caused by the war in Ukraine, changes among energy sources with additional emphasis on renewables have been disadvantageous for coal consumption. Sustained downwards pressure on coal usage and imports is foreseeable.

Although still amounting to a substantial amount of activity for bulk carriers and ports, annual volumes into Europe have

receded to a diminished role in the world coal market. Long-haul cargoes to destinations around Europe are still numerous, carried by bulk carriers of varying capacities. Discharging these cargoes is a feature at many bulk commodity handling ports throughout the region, both in northern European countries and in the Mediterranean area.

During 2024 imports into the European Union plus United Kingdom saw a second consecutive year of weakening amid a continued strengthening of world seaborne coal trade as a whole. Steam coal, used

mainly in power stations, previously the largest proportion received, formed about half of the regional volume. Coking coal for steel industry use comprised the remaining half. Adverse influences last year and in the preceding twelve months were most visible in the steam coal category, reflecting the energy crisis receding and the accompanying shift towards cleaner alternative energy sources.

Germany is by far the biggest among individual importing countries, forming about two-fifths of the regional volume, as shown in the table below. The Netherlands

## EUROPE'S SEABORNE COAL IMPORTS (MILLION TONNES)

	2020	2021	2022	2023	2024	2025*
France	6.8	7.5	7.6	6.0	4.6	4.4
Germany	29.2	37.4	41.8	29.8	24.3	25.0
Italy	7.6	8.4	11.9	7.1	3.5	3.8
Netherlands	4.4	12.8	11.3	8.1	7.8	8.0
Spain#	1.9	3.3	7.7	4.5	2.1	2.2
other EU+UK	21.1	25.4	42.8	28.8	19.8	18.9
total EU+UK	71.0	94.8	123.1	84.3	62.1	62.3
% change	-38.6	33.5	29.9	-31.5	-26.3	0.3

\* forecast #steam coal

source: Clarksons Research, Bulk Shipping Analysis, 30 September 2025



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is the next largest albeit with only a one-eighth share, followed by France and Italy. Coal-fired power station closures that started many years ago have been a common theme explaining the diminishing annual consumption and imports volumes.

#### SUPPORTING ENERGY USE

Broad macro-economic trends shaping energy usage are reflected in Europe's coal demand and imports, although this influence often is not the most noticeable factor shaping volumes. Regional and national government environmental and energy policy pressures are usually more prominent. In the past few years the European economy's performance has been sluggish.

Focusing on the most widely used broad indicator of progress in economic activity, gross domestic product (GDP) growth in the eurozone group of countries was a slow 0.8% in 2024 after achieving a minimal 0.4% in the previous twelve months, according to the latest assessment of the world economy published by the OECD organization in late September. Moreover, 2025 may see only a slight improvement to a 1.2% growth rate and in 2026 another low 1.0% is forecast, emphasizing how

activity is being restrained by headwinds.

Slow progress in economic activity amid constraints on business investment and consumer spending has weakened the demand for energy with implications for coal consumption. The subdued OECD forecasts for GDP growth reflect prevailing uncertainties about spending patterns amid adverse geopolitical influences and the ongoing restraint of relatively high albeit falling interest rates and difficulties in

returning growth to a more robust trajectory.

Despite the cautious tone of the recent report, OECD economists observed that "global growth was more resilient than anticipated in the first half of the year" although "the full effects of tariff increases have yet to be felt". The analysis suggests that "easier credit conditions" could prove beneficial in supporting economic growth over the period ahead. But the envisaged modest acceleration to a pace remaining low seems to be a tentative expectation, and probably will not have a noticeable impact on demand for energy.

Coal consumption trends will depend upon how activity in the main consuming sectors – power stations and steel mills – progresses. Output trends in these sectors are likely to remain subdued. Assuming that overall energy supplies in the region are adequately maintained, coal usage and imports especially of steam coal grades may be further restricted in the years ahead.

#### CHANGES AMONG IMPORTERS

In 2024 imports of coal into the European Union plus United Kingdom (EU+UK) were reduced very sharply again, down to about half of the high volume seen two years earlier. All the principal importing countries recorded declines in the past twelve months. But based on available data for the trend so far this year, and signs of volumes in later months, there are tentative signs that in 2025 as a whole the decline may be leveling off.

Coal imported by sea into the EU+UK in 2024 totalled 62mt (million tonnes), a fall of 22mt or 26% compared with the previous year's 84mt, based on Clarksons Research data and Bulk Shipping Analysis calculations, summarized in the table. Large reductions were seen in Italy and Spain and



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in the 'other Europe' category. The regional decline followed a 39mt (32%) downturn in 2023.

European imports within the coking coal segment decreased by 8% to about 35mt in 2023, before falling by 10% to 31mt last year. In the greatly diminishing steam coal component a 42% reduction to 50mt in 2023 was followed by a 38% fall to 31mt in 2024. Coking coal is an essential ingredient used in steel produced by the blast furnace/pig iron process, and is hard to replace with another energy source. Steam coal, especially as used by power stations, can be substituted in the electricity generating sector by other fuels or replaced by renewable power generation.

EU+UK imports, at under 5% of the world total last year, are far below the much larger proportion of global seaborne coal trade seen in earlier years. The earlier proportion of global trade is not likely to be regained, because of European environmental policies that permanently eliminate coal consumption and the capacity to use it.

The largest European coal buyer is still Germany, even though its annual volumes are lower than seen previously. Seaborne steam and coking coal received by German power stations, steel mills and other users totalled 52mt in 2016, comprising 36% of the EU+UK quantity. Last year's 24.3mt total — 5.5mt or 18% below the volume seen in the preceding twelve months — saw Germany retaining the biggest percentage share of the overall European volume, at 39%.

Large reductions were also experienced by other importers in 2024, compared with the previous year. Spain's steam coal imports were 53% down at 2.1mt, while Italy's steam and coking coal total fell by 51% to 3.5mt. In France a 23% decline to 4.6mt was recorded, accompanied by a 4% decrease in the Netherlands to 7.8mt, as shown by the table. The category in the table labelled 'other EU+UK' coal imports saw a decline of 31% last year to 20mt. UK imports, included, were down to below 2mt, a 40% annual fall.

Adjacent to the European area, in a country sometimes included in regional import totals, is Turkey, where the trend was in the opposite direction to that seen elsewhere. Turkey has a prominent role in the international coal market, receiving large annual volumes in recent years. The 2024 total reached almost 30mt, 17% above the previous year's volume. Steam coal mainly for power station use is the chief component, comprising four-fifths.

### SHAPING THE MARKET

One of the main trends adversely affecting coal usage and imports, in numerous European countries, over recent years was an extensive programme of coal-fired power station closures. Many plants were permanently shut down or idled, or experienced lower capacity utilization. According to Euracoal, the European Association for Coal and Lignite, this trend reflected high Emissions Trading System carbon prices, effectively rendering coal uncompetitive against other energy sources.

Accompanying this trend was a rapid shift towards alternative energy sources. Increasing availability of renewable energy supplies in particular, especially wind-turbine generated electricity, became a prominent feature.

Drivers of coal consumption were temporarily disrupted and modified by European energy market changes occurring in the 2021–2022 period. These changes were caused by an economic recovery from the coronavirus pandemic recession, and then by the energy supply crisis resulting when gas imports from Russia were drastically cut following that country's invasion of Ukraine. When energy supplies improved in 2023 and later, underlying negative influences affecting coal requirements were reasserted, weakening import purchases.

Another influence is variations in domestic coal production volumes within Europe, and effects on overall market supplies, although these now have only a limited impact on import demand because this domestic output is relatively small. Closures of uneconomic mines have been a feature in recent years. Hard coal production is now mostly confined to Poland. Additionally, low grade lignite (brown coal) is mined, mostly in Germany and Poland.

In 2024 Germany produced 92mt of lignite while hard coal output since 2018 has been nil, according to Euracoal figures. Poland's production last year was 41mt lignite plus 44mt hard coal. There was also a minimal quantity under 0.1mt of UK hard coal output from remaining small mines.



Among other EU importing countries domestic hard coal production was nil.

Consequently, as a result of the diminished influence of changes in domestic coal output within Europe, variations in the coal consumption trend are the main influence affecting European countries' purchases on the international market. Users are the two principal industries still using coal — steel production and electricity generation — and also cement and other industrial processes.

Steel mills' use of, and import demand for, coking coal has weakened since recovering from a downturn during the pandemic period. Imported volumes weakened again last year despite slightly higher steel output across the European region. Disruptive influences in recent years had a huge impact in the much bigger steam coal segment. Both economic and political drivers were evident. As already mentioned, lower energy use when the pandemic unfolded was followed by an upturn, while the later gas shortages supported coal usage temporarily until downwards pressures resumed.

During 2024 Europe's electricity generation from coal contributed 12% of all electricity generated, two percentage points lower than in the previous year and well below the proportion recorded earlier, according to Energy Institute calculations. Meanwhile renewables generation from wind, solar, hydro and biofuels has risen strongly. These figures emphasize the restraints on coal use in power stations and underline the direction of the trend.

Europe's electricity generation in 2024, in addition to coal, was comprised mainly of renewables — wind and solar power — (31%), and nuclear (20%). The remainder was comprised mostly of gas (15%) and hydro-electric (18%). Nevertheless, the renewables contribution is characterized by short-term variations because of its dependence upon often unpredictable weather, while hydro-power also can be affected by weather variations. But, coal is no longer seen as a valuable back-up alternative source of power supplies, a role mainly now focused on natural gas and nuclear generation plants.

#### IMPACT OF POLICIES

A long-established priority for environmental policy within the European Union is the promotion of

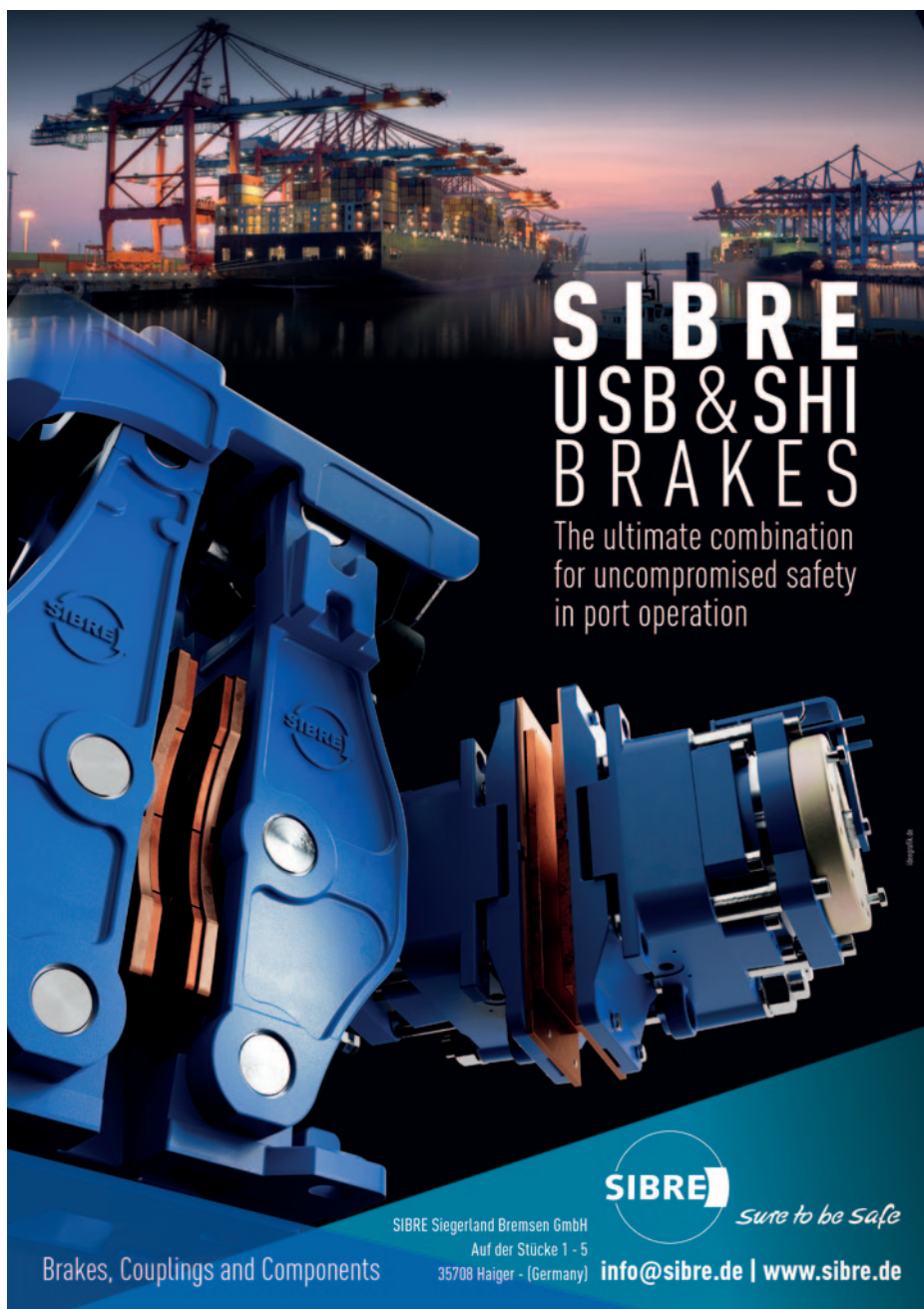
cleaner energy resources and reduction of air pollution. The central aim contributing to cutting greenhouse gas emissions is decarbonizing energy-consuming activities. Coal-fired power stations, especially large-scale plants, most of which have been phased-out, were one major focus for the strategy. Also, intensive development of renewable energy — with wind power generation becoming a feature — has been evident in recent years.

Coal usage has been adversely affected by policy measures agreed by EU member countries, such as the Emissions Trading Scheme, air pollution directives and renewable energy targets. The objective is to ensure sustainability, mitigating climate change in particular. Additional aspects such as energy security and industrial competitiveness have been given more

attention as well. Unfavourable impacts on economic activity when uncertain or disrupted energy supplies and prices emerged have been clearly seen in the past few years.

Dependence on coal continues to be part of the 'baseload' reliable generation capacity still needed in a number of European countries, but its role has diminished greatly. A few EU member countries retain import-dependent coal-fired plants operating, amid an intention to reduce and eliminate coal's contribution in the power sector. This policy imperative probably will ensure a further decline in the steam coal market.

Plans previously revealed by European countries involved ceasing power generation from coal by set dates during the period up to the end of the present



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decade. In France, Italy, Netherlands and the UK deadlines announced were within the 2022–2029 period. In Germany, which has the largest coal-fired plant sector, a later target date of 2038 was proposed for phasing out electricity generation from both hard coal and lignite. The last UK coal-fired power station was closed twelve months ago.

This process is assisted by the reduced cost of renewable power technology. Enhanced wind and solar power efficiency and often lower costs have altered the economics of and perceptions for alternative energy supplies. However, while the transition provides clear benefits, switching to other energy sources to replace all coal-fired capacity is a large-scale change that could be prolonged. In some countries closing coal-fired power stations is a major and extended procedure likely to continue over a number of years.

More than three years ago in August 2022 a significant additional policy implemented was the European Union's ban on coal imports from Russia, as part of the EU sanctions regime. Russian volumes previously formed a large proportion of regional coal imports. This action resulted in European buyers turning towards other suppliers and altered the global pattern of coal trade.

### SUBDUED OUTLOOK

In the aftermath of the energy crisis ample energy availability in Europe seems to have been largely restored, although there is still recurring uncertainty about short-term gas supplies, especially when winter months — implying demand increases — approach. Currently shortages of energy are limited by restrained economic activity, reflected in particular by energy consumed by the main users, which seems unlikely to accelerate rapidly in the near future. Demand for the output of coal-consuming industries — electricity generation and steel production especially — could remain lacklustre in the period ahead.

The downtrend in Europe's overall demand for coal is likely to persist, according to analysts at the International Energy Agency, in a recent (July) update on the global coal market. Regional European coal demand fell by almost 25% in 2023 compared with a year earlier, followed by another annual decline of almost 11% in 2024, perhaps tapering off to an under 2% reduction this year. Altogether these estimates imply a reduction in the European coal market of over one-third over three years since 2022.

Amid this background and other more



*Portside operations made easier with a Cleveland Cascade chute, designed to handle coal.*

specific influences, a subdued outlook for European coal imports is implied. Recent signs indicate that the 2025 annual seaborne coal volume imported by the EU+UK area could be flat compared with last year's volume, as shown in the table, at around 60mt, based on Bulk Shipping Analysis calculations. Some calculations suggest that a reduction in the coking coal segment could reflect lower steel production. Conversely, slightly larger steam coal purchases by several countries may be seen, resulting in the overall EU+UK imports total remaining broadly unchanged.

Attempts to forecast Europe's coal imports in 2026 and beyond are largely speculative, because of a variety of uncertainties surrounding energy market trends and the participation of coal. It

seems quite likely though that downwards pressure on imports — mainly reflecting the imperative of continuous switching towards alternative energy sources to mitigate global warming — can be expected to persist, with negative effects on coal use.


Looking ahead over an extended period of more than two decades to mid-century, when limiting and largely eliminating greenhouse gas emissions remains a global target, environmental pressures are set to intensify. European energy consuming industries still using coal are focusing on decarbonizing their activities, so demand is likely to diminish. Although the actual timing and magnitude of coal import reductions is not predictable, the general implications for Europe's trend are fairly clear.



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# High exports rob steel

## of level playing field



Kunal Bose

Major new steel capacity building, particularly in Asia in the face of low demand is the principal reason for the industry's poor working. At the same time, export aggression by China is robbing the world industry of a level playing field.

One single factor that is primarily responsible for the weak finances of the world steel industry is installed capacity staying well in excess of demand. If that is not enough to stand in the way of most mills across the continents to generate surpluses to support decarbonization of steelmaking and use of hydrogen as a reductant in place of metallurgical coal, the industry is seeing significant new capacity in the pipeline. This and other related issues came up for scrutiny by industry officials and observers at the steel conclave in New Delhi, brilliantly curated by Alok Sahay, secretary general of the Indian Steel

Association (ISA).

Ubiquitous in its application from construction to automobiles to machinery and defence products, steel is considered a strategic material, of which every country wants to have its own manufacturing capacity. Being also highly labour intensive, all steelmaking countries, including the OECD (Organisation for Economic Cooperation and Development) member states, have remained highly protective of the industry. In his campaign to return to the White House for a second term, Donald Trump made a promise to revive the rust belt industries, including steel and aluminium. Since becoming President, Trump has used the tariff card to give protection to steel made in the US. Incidentally, the global steel industry provides employment to around 6m people, including 1m in OECD countries.

Genuine anticipated demand driven capacity growth apart, quite a few economies, China in particular, stands out as an example of how market-distorting subsidies and non-market policies lead to bloating of steel capacity. In its report on steel outlook, 2025, OECD says: "The rise in China's position in the global steel industry is not a purely market driven outcome." State intervention in various forms has helped China to own steelmaking capacity of around 1.3bn tonnes or well over half the estimated global capacity of 2.472bn tonnes. Ex-China common concern is China making annually around a billion tonnes of steel when its demand continues to fall, leading the country to become a market distorting exporter.

No wonder, steelmaking countries in the West are miffed at the prospect of



global steel capacity rising by a hefty 165mt [million tonnes] (or by 6.7% on present capacity) during 2025–27. This happens when the industry is confronting sluggish demand growth and low metal prices. One common fear is with the commissioning of that volume of new capacity, the mills will be further constrained to limit production. What needs to be factored in, the world has started experiencing moderate steel demand growth after four consecutive years of contraction in steel use. Talking to *Dry Cargo International*, Anthony de Carvalho, steel division head at the OECD gives the warning that a significant difference between capacity and demand will contribute to financial stress for the industry. Even the most efficient steel-makers will not be spared the pain of presence of capacity not in alignment with demand.

OECD estimates that with the excess capacity growing to 721mt by 2027 from an already high of 602mt in 2024, the industry's capacity use will be inching towards 70% from the present around 78%, making it a big challenge for mills to stay in the black. The agency foresees further "appreciable decline" in steel demand in China where house building and construction will continue to face headwinds and metal requirements of OECD member countries will stay "roughly constant." As a result, the world demand will grow at a tepid rate of 0.7% through 2030. Whatever happens to steel demand in China or in developed economies, India, which is the world's second-largest producer and user of steel, will remain the global industry's brightest centre.

India has not only remained the strongest driver of steel demand growth among all countries, but it is also making important strides in steel capacity building. The positive feature is that thanks to impressive growth in domestic demand, which is to remain the case for years to come, India is not contributing to world surplus capacity. At the same time, the



OECD foresees strong demand growth to continue in ASEAN (Association of Southeast Asian Nations) and MENA (Middle East and North Africa) regions. Both the regions are seeing construction of new steel capacity in anticipation of growing local requirements of steel for infrastructure development and construction and manufacturing work. Even then, countries such as Vietnam, the Philippines and Thailand continue to push more and more steel in the world market, thereby often being the cause of market disturbances.

Carvalho says Asian countries, including China and India, will contribute 58% to the new capacity buildup of 165mt. With much fanfare, China launched steel capacity swap system in 2018 restricting building of new mills in place of scrapped units claiming to fulfil two objectives: freeze capacity growth and eliminate energy guzzling polluting capacity. But here the twist in the tale was that in many cases modern mills designed to make high value steel came up in place of virtually non-functioning units. So, technologically advanced new capacity is getting created in China under the guise of capacity replacement. What is particularly disturbing is that China is seeing building of new capacity, of course with the connivance of local provincial administrations when domestic steel demand is falling.

Reflective of the continuing crisis of the real estate sector and slowing infrastructure development, China's local steel demand hit a six-year low at 892.87mt in 2024 when its steel production slid 1.7% to

1.005bn tonnes. Much to the concern of the rest of steelmaking countries, poor domestic demand — leaving China with considerable surplus — led the country to export in 2024 a record volume of 118mt. Even while the Chinese steel production is down so far this year on 2024, its steel exports in the first eight months up to August were up 10% year-on-year to 77.49mt. The development has not come as a surprise, since domestic steel consumption in the first half of 2025 saw a significant drop over the previous year's corresponding period. Some demand improvement is expected in the current half. But that will not be enough for China to apply a brake on exports.

While the Indian steel industry is much smaller in size compared to China with current capacity around 205mt, the growth is so planned that the local demand is comfortably met by supplies from within. Even then, India remained a net importer of steel during 2024–25 with imports at 9.551mt and exports at 4.858mt. Backed by robust demand from the construction, infrastructure and automobile sector, Indian finished steel, including stainless steel consumption was up the world best at 11.5% to 152mt. According to ISA president Naveen Jindal, demand for steel will continue to grow at a healthy clip. He is expecting Indian steel consumption to rise at double digits in the current half after growing at 7–8% in the first half.

The pace at which capacity is growing in India gives confidence to industry officials that by 2030, the country will have built capacity well in excess of the official target of 300mt. Jindal now holds the prospect of India becoming a 500mt-capacity nation by 2047, coinciding with it becoming a developed nation that will demand per capita steel consumption rising to around 300 tonnes. The present *per capita* use in India is just over 100 tonnes against the world average of 221kg. From what Jindal says, it becomes clear that India will need all the extra steel to build world class infrastructure and housing. The government wants India to become the world's next major shipbuilding nation and





once that happens a new steel demand stream will open up. Incidentally, India is already making grades of steel suitable for building of ships. Whatever the capacity build-up, India will not at any stage become an aggressive seller of steel products overseas and thereby, cause market distortions.

The OECD says in the projected world steel capacity growth by 2027, cross-border investments will have a new tonnage share of 16%. China, already burdened with serious over capacity at home and facing official resistance to building new mills have ventured out in ASEAN in particular and also African countries with investments in steel. As it would happen, almost three-quarters of cross-border investments are leading to creation of BF-BOF route of steelmaking, which will leave a carbon footprint much bigger than when steel is made through EAF (electric arc furnace). Consideration of cementing political influence and submitting to resource nationalism in host countries have also been behind China making cross-border investments in steel and other metals. The net result is accretion in capacity, creating in the process all kinds of market distortions denying a level playing field.

Weighed down by excessive high capacity and production not in alignment with demand, the Chinese industry is left with no option but to export at any cost. OECD points out, "the surge in exports of low-priced steel from China has disrupted

international markets, resulting in growing trade tensions that seem likely to persist in the near term." Over the past many years, Beijing and also provincial governments have been providing incentives, open and also hidden first to build capacity and then support production and exports. Subsidies in different forms that Chinese mills enjoy are ten times those available in the OECD.

Chinese mills have benefited from below market rate borrowings, direct grants, paying for energy at lower than market rates and preferential tax treatment. No doubt, quite a few mills in China will cease operation without heavy doses of subsidy. Moreover, instances are not few where incentives are extended to commercially unjustified steel ventures. But China is not the only country indulging in anti-competition, anti-market practices benefiting the industry.

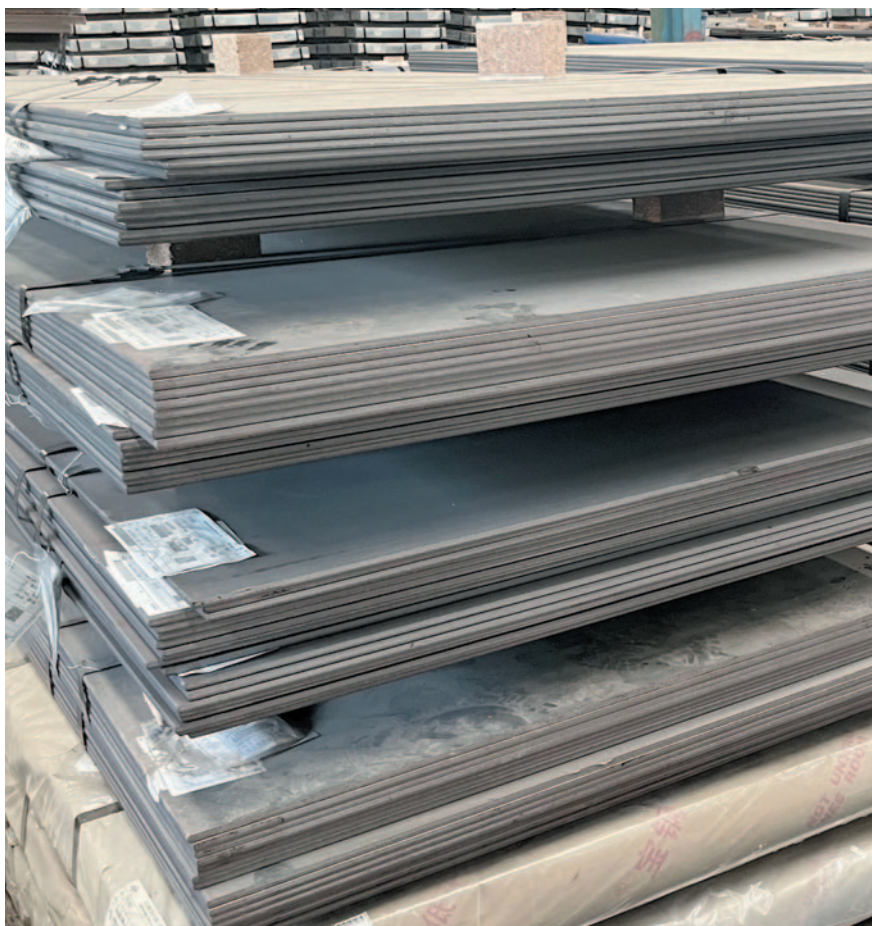
Subsidy as obtains in China and some other countries robs the ones who play by the rules of a level playing field. No wonder then, as OECD points out, the burden of surplus capacity and production is robbing the industry of profitability it needs to invest in new technologies for decarbonization. This besides, rises in exports of artificially low-priced steel, mostly from China have proved to be trade disruptive resulting in growing trade tensions that are likely to persist in the near term. Expectedly, low priced exports proving disruptive for industries of recipient countries of such steel are the cause of growing trade tensions leading to

tariff and non-tariff barriers. No wonder, recent times have seen affected countries filing antidumping cases in good numbers as a shield to predatory imports. As the OECD says, "during 2024, 19 governments initiated 81 antidumping investigations involving steel products, a five-fold increase from the 2023 level and near the 2016 steel crisis level." Here Asian steelmakers are in the dock accounting for nearly 80% of antidumping complaints, with China alone accounting for more than one-third of the total.

The challenge for OECD member countries will be to pressuring China to genuinely trim steel capacity and stop subsidizing its steelmakers, specially in their export drive. That will return the world steel industry to sustainably healthy working, boosting decarbonization drive.

In the midst of sustainability dialogue, a subject being animatedly discussed is if the outcome of the Trump tariff blitz is in alignment with the President's objective to secure fresh investment in the industry. The acquisition of storied US Steel by the Japanese Nippon Steel at \$14.9bn, representing considerable premium over the market price in June after months of uncertainty because of reservations of politicians and trade union leaders brings with it a commitment to build a greenfield mill at an investment of up to \$4bn. Furthermore, Nippon Steel will invest \$11bn through 2028 to modernize the US Steel infrastructure. No one will grudge Trump taking credit for securing the golden share in US Steel to protect national security and interest. Initially opposed to the buying of US Steel, the powerful United Steelworkers Union finally came on board with Nippon Steel making commitment to preserve American jobs and honour the existing agreements with USU.

In the meantime, South Korean Hyundai Steel is making ready a 2.7mt EAF in Louisiana to make HR and CR sheets for use mainly in the automobile industry. The unit, built in collaboration with Posco, will start production in 2029. Investment in steel is part of Hyundai Group's planned major investment of \$26bn in the US during 2025–28, mostly in automobile. The steel unit to create over 1,400 direct jobs will be supplying steel to South Korean automobile factories in the US and also American automakers. Investments by Nippon Steel and Hyundai are seen as a strategic response to the US tariffs on imported steel. Owning mills locally will allow these companies to avoid paying the import tax as they get a big foothold in a major market.





# Cavotec MoorMaster Systems Operational at Iroquois Lock in Canada

Cavotec has successfully delivered and commissioned three MoorMaster™ automated mooring systems at the Iroquois Lock in Ontario, Canada. The systems were officially handed over to the Saint Lawrence Seaway Management Corporation (SLSMC) on 30 June 2025.

With this latest installation, Cavotec's MoorMaster™ systems support vessel transit at nearly all locks of the St. Lawrence Seaway, with only Lock 8 in the Welland Canal remaining to be equipped in 2026. The new systems at the Iroquois Lock will contribute to operational benefits, including:

- ❖ Enhanced safety for crews and operations through the elimination of traditional mooring lines.
- ❖ Less manual handling and more efficient positioning through large vacuum pads that securely hold vessels steady.
- ❖ Reduced onboard power consumption for vessels during lockage

"We're proud to see the latest MoorMaster™ systems are fully operational in Canada," said Nicklas Vedin, Head of Ports & Maritime Division, Cavotec. "It's an important milestone that brings us closer to supporting the entire Saint Lawrence Seaway system with our automated mooring technology, helping improve both operational performance and sustainability."

With the Iroquois project completed, a total of 51 MoorMaster™ units are in operation across the Seaway as of 2025.

## ABOUT CAVOTEC

Cavotec is a renowned engineering company with 50 years of heritage in innovation, design, and delivery of advanced connection and electrification solutions that drive the decarbonization of ports and industrial applications. With five decades of experience, our systems ensure safe, efficient, and sustainable operations for a diverse range of customers and applications worldwide.



## Global marine fire service agreement between VIKING and Johnson Controls International

Johnson Controls International (JCI) and VIKING Life Saving Equipment (VIKING) have entered into a global marine fire service partnership.

The Marine and Navy division of Johnson Controls International is a leading global manufacturer of firefighting systems, having delivered thousands of high-quality and innovative systems to the maritime and offshore industry. JCI Marine and Offshore offers a comprehensive range of firefighting systems, including CO<sub>2</sub>, foam, dry-powder, water-mist, sprinkler, and alternative gases.

VIKING is a global expert in maritime safety solutions, renowned for manufacturing and servicing lifesaving products of the highest quality, dedicated to protecting and saving human lives. Under this agreement, VIKING has been appointed as the globally approved, trained, and certified service provider for all systems and equipment delivered and installed by Johnson Controls

Marine and Navy.

VIKING will have access to and maintain a stock of the full range of JCI system spare parts necessary to support customers worldwide.

This 'partnership in safety' reflects a shared vision and commitment of the two companies to deliver high-quality services globally. They are confident that this synergy will help them achieve new levels of safety, service excellence and customer satisfaction.

### ABOUT VIKING

VIKING Life-Saving Equipment is a global market expert in maritime and offshore safety. Headquartered in Denmark, the corporation manufactures, supplies and services everything from chute and slide-based evacuation systems to liferafts, lifejackets, immersion suits, firefighting equipment, aviation safety gear, lifeboats, hooks, davits and more.

VIKING brings its customers all the elements needed to simplify safety,

including the world's broadest range of safety products and a highly efficient, worldwide servicing network. And it stands out in the ability to offer complete safety compliance solutions — all certified in accordance with the latest IMO, SOLAS, EU and USCG requirements. Known as VIKING Shipowner and Offshore Safety Agreements, these uniquely customizable solutions incorporate safety products, global servicing, exchange, single-source management, and financing in a variety of fixed price structures.

In 2018, VIKING acquired Norsafe, the Norwegian boatbuilder whose lifeboats are used throughout the world, adding further strength to an unmatched product and service offering in the global maritime safety industry.

Founded in 1960, the privately held corporation manufactures in Denmark, Norway, Bulgaria, Greece, China and Thailand, and provides safety solutions in all significant markets and locations.



# Successful installation of Anemoi Rotor Sails on U-Ming's 'Grand Pioneer' VLOC at COSCO Zhoushan Shipyard



U-Ming Marine Transport Corporation (U-Ming) and prominent wind propulsion technology provider Anemoi Marine Technologies Ltd. (Anemoi) have announced the successful completion of the Rotor Sail installation on U-Ming's *Grand Pioneer*, a 325,000dwt Very Large Ore Carrier (VLOC).

U-Ming is the first Taiwanese shipowner to adopt Rotor Sails, marking a major milestone in the company's decarbonization strategy and underlining its role as a first mover in deploying innovative clean technologies.

The four 35m-tall, 5m-diameter folding (tilting) Rotor Sails were delivered fully assembled and dynamically balanced from Anemoi's production base on the Yangtze River and transported by barge to COSCO Zhoushan shipyard.

In a streamlined plug-and-play process unique to Anemoi, the sails were lifted

directly onto the deck and secured in place. This method significantly reduces the shipyard's scope of work and keeps installation time short. For this installation, it took only 1.5 days to lift and fix the Rotor Sails in position onboard, with a further five days for commissioning and testing all four Rotor Sails and folding systems once the shipyard had completed its works during the vessel's scheduled dry-dock in September 2025.

Anemoi's specialist team was present throughout the process overseeing the installation; the team will also sail on the vessel's maiden voyage from Zhoushan to Singapore, with the Rotor Sails deployed and operational. This is to ensure crew training and operational handover will be completed smoothly, equipping U-Ming's seafarers with the skills and confidence to operate the technology from day one.

Jeff Hsu, Vice Chairman of U-Ming

added, "The installation of Rotor Sails on *Grand Pioneer* marks an important step in U-Ming's decarbonization journey and reflects our belief that the future of global shipping must be both sustainable and competitive. Through the collaboration with our forward-thinking partner Anemoi, we are turning strategy into action by reducing emissions, enhancing efficiency, and delivering long-term value. This initiative also demonstrates our commitment to innovation and our contribution to the industry's shared ambition of achieving net zero by 2050."

Clare Urmston, CEO of Anemoi, commented "We are proud to have delivered another successful Rotor Sail installation, providing fully assembled technology that minimizes time in the yard and maximizes value for our customers. U-Ming's decision to adopt Rotor Sails, particularly as the first in the Taiwanese





market to do so, demonstrates their strength, ambition and clear focus on decarbonization. Our collaboration reflects the growing momentum behind wind propulsion as a critical pathway to lower emission shipping, and we look forward to analysing the performance data from upcoming voyages.”

Following completion of the installation,

*Grand Pioneer* will resume deep-sea service between Brazil and China under a long-term charter with Brazilian mining company Vale. The vessel is projected to achieve annual fuel and emissions reductions of approximately 10–12% on average.

This milestone underscores the importance of industry collaboration in

driving meaningful change. By taking decisive action as a first mover, U-Ming is reinforcing its decarbonization strategy while setting an important example for the global shipping community, demonstrating how innovative partnerships and proven technologies like Rotor Sails can accelerate the sector’s transition towards a net-zero future.



*Clare Urmston, CEO – Anemoi Marine Technologies.*

## DSM Shipbrokers

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# Clean shipping commitment

The need to improve sustainability in the shipping industry is accelerating. The global industry must cut carbon emissions, protect marine biodiversity and leverage the use of data for smarter decision making.

With nearly 100 years of experience of charting through unknown waters, Jotun is committed to continuously innovate and develop advanced products and solutions designed to protect biodiversity and cut carbon emissions to support global sustainability ambitions and achieve cleaner operations for all industry players. A clean hull ensures cleaner operations.



Cut carbon  
emissions



Protect  
biodiversity



Preserve  
fuel



# Water relay teams

floating cranes, offshore stevedoring,  
transshipment & self-unloaders



Jay Venter

3D render of Super Terminais' new floating port terminal in Itacoatiara, Amazonas.

## Super Terminais announces new grain transshipment port in Itacoatiara (AM)

### R\$150 MILLION INVESTMENT TO BOOST NORTHERN LOGISTICS, CREATE JOBS, AND BEGIN OPERATIONS IN 2026

Super Terminais, a prominent logistics and port operator in Brazil, has received unanimous approval from the National Waterway Transportation Agency (Antaq) to operate a new floating port terminal in Itacoatiara, Amazonas. The project, known as Porto Verde, represents an investment of R\$150 million and will focus exclusively on the transshipment of solid bulk commodities, primarily soybeans and corn.

Strategically located 175 kilometres from Manaus on the Amazon River, the new terminal is scheduled to begin operations in January 2026, reinforcing the region's position as a key logistics hub within Brazil's Northern Arc export corridor.

"Our goal is to bring to Itacoatiara the standard of operational efficiency that is already a hallmark of Super Terminais," said Marcello Di Gregorio, Director at Super Terminais. "This initiative will generate jobs, stimulate the local economy, and drive growth in bulk exports from the Northern Arc — transforming traditional grain logistics in Brazil."

### A SUSTAINABLE, HIGH-CAPACITY FLOATING PORT

Approved as a Private Use Terminal (TUP), Porto Verde will be equipped to handle Panamax-class bulk carriers, which already operate in the region. The floating pier will be anchored to the Amazon riverbed and span 240 metres in length, 18 metres in width, and cover a total area of 4,320 square metres. It will feature three

high-capacity cranes, each capable of moving up to 2,100 tonnes per hour.

Unlike traditional ports, Porto Verde will function exclusively as a transshipment terminal, transferring bulk cargo directly between ocean-going vessels and barges without the need for storage, ensuring high efficiency and rapid turnover.

### ECONOMIC AND REGIONAL IMPACT

The project is expected to create 130 direct jobs and 250 indirect jobs in Itacoatiara and surrounding municipalities. In addition to employment generation, Porto Verde will contribute to economic growth, improve export logistics, and help consolidate Itacoatiara's role as a strategic gateway to global markets, especially Europe and Asia.

### REGULATORY AND ENVIRONMENTAL COMPLIANCE

The project was presented by Antaq rapporteur Wilson Pereira de Lima Filho, who confirmed its legal, technical, and

environmental compliance. His report emphasized the absence of operational or competitive conflicts, and his recommendation was supported unanimously by Antaq directors Caio César Farias Leônico, Alber Furtado de Vasconcelos Neto, and Flavia Moraes Lopes Takafashi.

### ABOUT SUPER TERMINAIS

With over 25 years of experience in transportation and logistics, Super Terminais is recognized as an efficient private terminal in the Manaus Industrial Hub. It is the only port in Brazil designated as 'green', operating with state-of-the-art equipment and a strong commitment to sustainability, forest preservation, and employee development.

The company specializes in containerized cargo, project cargo, and breakbulk, maintaining the highest operational standards while promoting sustainable development in the Amazon region.





## Dry bulk transshipment: continuous customization



ALM Tinka at work.

LD Ports & Logistics (LDPL), is part of LD Armateurs (LDA), founded in 1851. LDPL is a pioneer in providing maritime solutions such as offshore dry bulk transshipment and barging offering its expertise to myriad clients in Australia, United Arab Emirates, Guinea, Indonesia, India, Sierra Leone, Romania, Dominican Republic and Columbia. It has successfully implemented different types of transshipment solutions worldwide depending on customer's requirements.

The company commenced its transshipment in Asia (Indonesia), quickly expanding its reach to the other extreme in South America (Columbia). It continuously expanded its offerings in line with customer's requirement commencing with the simplest but versatile solution of floating cranes adding a tug dumb barge combination offering an entire marine solution. As business grew, it ventured into self-propelled barges custom built for project offering unique advantage over standard market offerings. It continued backward integration offering port handling solutions as well as at one point of time owned shipyard which was used for construction of its own designed and engineered vessels including floating cranes which are still in operation. Thus the company turned into an integrated maritime infrastructure player offering both construction and operating expertise.

Change is only constant in the world. The constant is accelerating as world progresses. Accordingly company traversed its journey pivoting its strategy. This article highlights LDPL's ability to

navigate through this using its assets and adaptability.

LDPL won a large bauxite transshipment contract in Guinea, West Africa which commenced operations in 2019. Gruelling deadline required to deploy assets in quickest possible time, hence newbuild was not an option and had to resort to secondhand/conversion.

Thankfully LDPL had an asset floating crane, *Miramar*, its own design and built at its own shipyard in Batam, however a single asset would not have been sufficient for peak targeted handling volumes of over 18mt (million tonnes) per year, which zeroed down on available transshipment assets suitable for modification.

The modification project involved modifying an existing transshipper *Magdragon* which was in use in Australia for loading iron ore from barges. This transshipper required modification to be suited for loading bauxite either from barges or Panamax/Kamsarmax to Capesize/Newcastlemax. This required the 3000B series crane modification to make it suitable to discharge vessels up to 32.2m beam. The cranes were modified, increasing outreach with consequential derating and changes to ensure crane operators visibility, the most critical component in dry bulk transshipment.

The modification was successfully completed and the transshipper commenced operations in Guinea rechristening herself *ALM Tinka*, carrying out all potentially envisaged operations of discharging barges and Kamsarmax and loading into vessels up to Newcastlemax

and handling around 13.5mt during project duration accounting for almost one third of the total project tons.

*ALM Tinka* achieved an average handling rate of about 1,400tph (tonnes per hour) during dry season; however, handling efficiency dropped during the rainy season. Ergo, at several transshipment locations, clients prefer to stop the operations during the rainy season — although in certain countries, they prefer to continue with reduced throughput. Guinea was one such operation. Operations were continued during the rainy season and, after initial trials and the learning curve, about 70–80% of handling rates — compared to the dry season — were achieved. A key factor impacting handling rates and throughput reduction is the cargo wetness — especially if it is stockpiled in the open, as the wetness or moisture content of cargo results it being stuck to belts and transfer points thereby impacting overall handling rate. The rainy season typically lasts three months in Guinea and the overall impact on tonnage handled during the rainy season varied between 15–35% of dry season tonnage.

In 2023, Metro Mining of Australia was planning to expand its mining and exports in Australia. It needed an additional transshipment capacity to augment its fleet. After thorough evaluation of new-built versus existing, associated costs, risks, mining plan etc., *ALM Tinka* was the preferred choice.

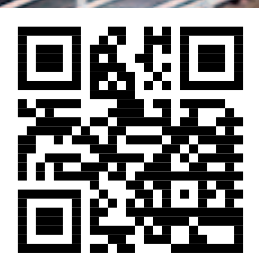
It was full circle for the transshipper traversing back to its start, although in North Australian geography this time.



# MOVING FORWARD



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## WITH LION MARINE GROUP

Provider of Technical- & Bulk Handling Solutions





ALM Tinka – aerial view.

Transshipment is a very customized solution, and not all proposed assets are ready to be deployed as on any other project especially considering the objective of the project and governing regulatory authority. This project too required a different set of requirements compared to Guinean operations, albeit for the same cargo, bauxite. Even when the transshipper operated in Australia, the different port location and environment require specific aspects of Australian Maritime Safety Authority to be considered. Therefore, it was time to modify her again. The

transshipper was towed to China where she completed her modifications once again and landed on the Skardon river in Queensland, where she was renamed *Ikamba*.

The vessel commenced operations in 2024, and has completed more than one year of operations. *Ikamba* aims to enable the faster loading of vessels, loading of larger vessels up to 220,000 tonnes and, due to its size, can operate safely in more difficult weather conditions.

With its modification and extended maintenance period during the rainy

season in the Weipa region the system nameplate capacity is 3,000tph with expected operational throughput of up to 2,000tph.

In this case, the same vessel was modified to suit different project requirements. These modifications appear minor *prima facie* but these need meticulous planning and execution and are long lead activities in project management. These modifications were executed according to project requirements, thanks to the support from LDPL customers, shareholders, suppliers and contractors.

## ESL Shipping is renewing its fleet, sells 'Kallio' to Norwegian company

### ESL SHIPPING SELLS 'KALLIO' TO THE QRILL COMPANY AS.

Divesting *Kallio*, taken into use in 2006, is helping to speed up the green transition of ESL Shipping and strengthens the financing of the new vessels currently under construction.

The sales price of *Kallio* is about €18 million. The sales gain for Aspo [of which ESL Shipping is a subsidiary] is expected to be approximately €10 million.

"We are investing heavily in Green Handy vessels, which can be operated fossil-free and have an ice class of 1A. Development of the Green Handies has progressed according to our plan. By divesting *Kallio*, we strengthen the balance sheet of ESL Shipping and implement our strategy," says Rolf Jansson, CEO of Aspo and Chairman of the Board of ESL Shipping.

"Ensuring sufficient capacity and reliable customer deliveries are our priorities in all circumstances. The first new generation Green Handy vessel will join our fleet in about two years. During the transition period, we will consider chartering or acquiring additional vessels, when needed," says Mikki Koskinen, Managing Director



The recently divested Kallio.

of ESL Shipping.

*Kallio* has sailed under the Finnish flag. After the divestment, the aim is to assign the vessel crew to ESL Shipping's other vessels whenever possible. *Kallio* has now been handed over to the new owner, operating in the marine feed ingredients business.

### ABOUT ESL SHIPPING

ESL Shipping is a carrier of dry bulk cargoes in the Baltic region. ESL Shipping's competitive edge is based on its ability to

responsibly secure product and raw material transportation for industries and energy production all year round, even in difficult weather conditions.

The shipping company loads and unloads large ocean liners at sea as a special service. ESL Shipping Ltd has been in business for over 75 years and is a subsidiary of Aspo Plc.

The combined fleet of ESL Shipping and AtoB@C Shipping consists of around 40 vessels with cargo capacity ranging from 4,000 to 25,000dwt.

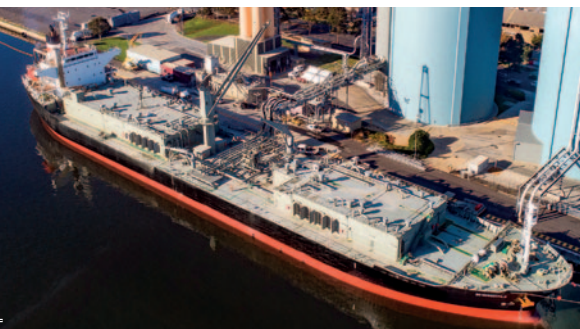


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## GENMA product safety technology: Safeguarding offshore engineering



Dampness, corrosion, huge waves, strong winds... In the vast and boundless ocean, offshore engineering is constantly facing severe ordeals and challenges.

To ensure that these engineering works can work safely and efficiently, GENMA offshore cranes born for this purpose, providing advanced safety technology to safeguard offshore engineering.

### ACCURATE AND STABLE LIFTING AND HOISTING TECHNOLOGY

- ❖ **Stable hook technology:** GENMA offshore cranes adopt advanced stable

hook technology to achieve precise lifting, ensuring efficient and safe operation.

- ❖ **PLC control system:** GENMA offshore cranes adopt advanced PLC control system to achieve precise control and improve operational safety and efficiency
- ❖ **Variable motor and hydraulic drive:** the GENMA offshore cranes adopt a variable motor and hydraulic drive system, which can maintain a continuous and stable working state even under heavy load conditions.
- ❖ **Automatic limit device:** GENMA

offshore cranes are equipped with hook and boom upper and lower limit functions, which can effectively prevent equipment overload and excessive extension, and improve operational safety.

### COMPREHENSIVE SAFETY EMERGENCY RESPONSE SYSTEM

- ❖ **Rotary locking mechanism:** the GENMA offshore crane's rotary locking mechanism is closely linked with the rotary drive system, providing instant response to ensure stable operation of the equipment even in harsh sea conditions.
- ❖ **Safety emergency system:** the GENMA offshore crane is equipped with a heavy object emergency release system, an anti-back tilt mechanism for the boom, an automatic anti fault braking device, and a motor overheating protection mechanism to ensure that the crane can safely respond in emergency situations.

### CORROSION RESISTANT AND DURABLE STEEL STRUCTURAL MATERIALS

- ❖ **High strength materials:** the GENMA offshore crane adopts an ultra-high strength steel integrated truss boom design, which is lightweight, has strong wind resistance and high operating efficiency.
- ❖ **Anti-corrosion technology:** the GENMA offshore crane adopts advanced coating technology, which can effectively resist the erosion of harsh factors such as high temperature, high salinity, and high humidity in the marine environment, and extends the service life of the crane.





# Leading Grain Solutions: **Reliable, Efficient, Bühler.**

The worldwide grain trade is increasing year-by-year, necessitating an advanced supply chain for these vital commodities.

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## Mibau Stema Group orders two new self-unloaders

*The next generation of Starnes is on the way.*



Mibau Stema Group recently announced that two state-of-the-art self-unloading vessels have been ordered for the Group's fleet, scheduled for delivery from September 2028. The newbuilds are a key part of the Group's long-term growth strategy, ensuring increased transport capacity, improved operational flexibility, and a further step towards sustainable shipping.

Based on the proven blueprint of the *Starnes* and *Fjordnes* delivered in 2020–2021, the new vessels will feature significant design enhancements to meet growing customer demands and evolving environmental standards.

### KEY VESSEL HIGHLIGHTS:

Increased cargo capacity: +3,500 tonnes compared to *Starnes*/*Fjordnes*, enabling each vessel to transport approximately 2.5mt (million tonnes) per year.

- ❖ **Wider beam:** increased from 29 metres to 32 metres, allowing greater cargo planning flexibility per hold.
- ❖ **Enhanced discharging system:**

capable of self-discharging at 5,500 tonnes per hour with a modified boom system.

- ❖ **Dual-fuel propulsion:** equipped with engines capable of running on B100 biofuel from day one, with the flexibility to switch to green methanol as it becomes available.
- ❖ **Optimized hull design:** improved underwater lines for greater fuel efficiency.

These advances will deliver not only increased efficiency and capacity but also greater fuel flexibility and reduced emissions. "Our investment in these two new vessels is a clear commitment to our customers, our partners, and our environmental goals," said Claus Boisen, CEO of Mibau Stema Group. "By increasing capacity, improving operational flexibility, and introducing the latest in fuel technology, we are securing our long-term growth and ensuring that Mibau Stema remains the leading and most sustainable choice for aggregate shipping."

The vessels will be built in partnership

with Mibau Stema's co-shareholder Hartmann family and Canada Steamship Lines (CSL) in the Chengxi Shipyard and are expected to enter service in a three-month window progressively from September 2028. They will join Mibau Stema's modern self-unloading fleet, which plays a crucial role in delivering high-quality aggregates to markets across Northern and Western Europe.

### MIBAU STEMA GROUP

Mibau Stema Group is a European supplier of sustainable aggregates for the construction industry. From its three quarries, including Europe's largest in Jelsa, Norway, it extracts around 17mt of high-quality crushed rock each year for major infrastructure projects. The group's modern self-discharging vessels and 40+ terminals along the North and Baltic Seas ensure fast, efficient delivery. With over 500 employees in seven countries, it is committed to innovative rock solutions, sustainable resource use, and environmental protection.





# Brazil restarts coal imports from Argentina

In Argentina, the Port of Punta Loyola has recommenced the export of coal to Brazil after a six-year closure. Yacimientos Carboníferos Río Turbio (YCRT) exported an initial 30,000-tonne consignment from what is the acknowledged logistics hub for the south of the country. A second, similar shipment is also planned, in a contract amounting to a total of 60,000 tonnes. The coal is needed for electricity generation in the neighbouring country and each shipment is estimated to make more than \$2 million..

YCRT transports the coal from Río Turbio to Punta Loyola using rail. However, this has also required renovation of the port's coal terminal to ensure loading productivity of 300 to 400 tonnes per hour, bringing back much needed skilled jobs for the local community.

South America is distinct in that while many countries throughout the globe are deactivating coal power plants, the need for coal still exists in Brazil both for electricity generation and industry in general. Concerns are therefore being raised as to how environmental factors can be balanced should this trade be re-established in the



*Yacimientos Carboníferos Río Turbio.*

longer term, although to date the current shipments are being viewed as individual events. Nevertheless, there is also a project

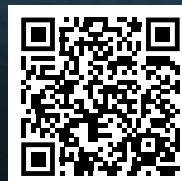
to build a thermal plant in Río Turbio too, which will also make use of local coal reserves.

*Barry Cross*

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# HOST expands terminal portfolio with acquisition of Impala Terminals Burnside, now Ascension Bulk Terminal

On 29 September, T. Parker Host (HOST), a premier provider of ship agency and terminal services across the United States, announced the acquisition of Impala Terminals Burnside (Impala Burnside), a bulk facility located in Burnside, LA, at Mile Marker 169 on the East Bank of the Lower Mississippi River. Effective immediately, the site will be renamed Ascension Bulk Terminal. Encompassing 230 acres — 190 of which are available for future development — Ascension Bulk Terminal is a multipurpose facility positioned to support both current operations and long-term growth along the Lower Mississippi River. Additionally, HOST is investing \$6 million in upgrades to the facility and equipment to expand capabilities and improve operations.

“Our investment in Ascension Bulk Terminal is a strategic step that solidifies our long-term presence in Louisiana and along the Lower Mississippi River,” said Adam Anderson, Chairman and CEO of T. Parker Host. “With more than 500 employees and over \$200 million invested in the region, this investment underscores our commitment to supporting prosperity and growth in Ascension Parish, the surrounding communities, and the state of Louisiana.”

With this addition, HOST expands its

portfolio to three privately owned terminals — United Bulk Terminals in Davant, LA; Avondale Global Gateway in Avondale, LA; and now Ascension Bulk Terminal. HOST also operates at Port Allen in Baton Rouge, LA, providing terminal and stevedoring services. Together, these sites comprise more than 1,500 acres of terminal property, including over 1,000 acres available for future development. The acquisition of Impala Burnside further strengthens HOST’s long-term strategic presence on the Lower Mississippi River.

The acquisition of Ascension Bulk Terminal crowns a landmark year of growth for HOST. Earlier in 2025, the company completed its acquisition of Transmarine Navigation Corporation (Transmarine), expanding its agency operations to the West Coast and Hawaii. Along with Impala Terminals Burnside, HOST has also acquired Impala Fleeting Burnside, which is responsible for barge fleeting at the terminal. Together, these milestones highlight HOST’s momentum and reinforce its commitment to being a trusted partner for its customers.

## ABOUT T. PARKER HOST

T. Parker Host is a total solutions provider for the maritime industry,

specializing in agency services, terminal operations, stevedoring and marine assets. Founded in 1923 and guided by its Core Principles, the company has developed a strong reputation for its expertise, transparency and high standards of service.

The entire HOST team focuses on customer needs while adding value to every operation with increased efficiency and tenacity. In 2022, HOST reopened the former Avondale Shipyard as Avondale Global Gateway, a center of multimodal commerce, employing hundreds of Louisianians. In 2023, recognizing the success and centrality of the Louisiana sites to HOST’s business, the company relocated its headquarters to Jefferson Parish, Louisiana.

## ABOUT IMPALA TERMINALS BURNSIDE

Impala Terminals Burnside, located in Ascension Parish, Louisiana, at mile marker 169 on the Lower Mississippi River, handles and stores coal, petroleum coke, bauxite, alumina, and other dry commodities.

Impala Terminals Burnside was previously wholly owned by Trafigura, a leading commodities group, having operated under the Impala Terminals brand.





## Steelpaint coating: breakthrough in Wilhelmshaven dock gate renewal

Steelpaint has delivered a decisive breakthrough in the renewal of Wilhelmshaven's Great Sea Lock, applying corrosion protection to some 26,000m<sup>2</sup> of steel on one of the world's largest sluice gates.

At 60m long, 20m high, and with a depth of 10m, the 1,700t gate provides access to Germany's only deep-water port for naval vessels, commercial ships and energy carriers. The completion of the main coating work marks a significant step forward in a challenging project that started in 2018.

Steelpaint's Stelpant coating system was selected after a two-component epoxy system from another supplier was found to be incompatible with an autumn/winter application, when freezing temperatures and near-saturated humidity can make epoxy coatings unusable.

Muehlhan Germany GmbH, which worked together with Hermann Maschinenbau GmbH in a working-group for port authority WNA Hannover & WSA Weser-Jade-Nordsee, opted for Steelpaint's single-component polyurethane system Stelpant, which can cure at temperatures down to -5°C with a relative humidity up to 98%. Its use allowed the coating application work to continue through winter, ensuring the gate could be floated back into position and reinstalled for interim use.

The coating package consisted of a 75µm zinc-rich-primer of Stelpant-PU-Zinc followed by two 225µm coats of Stelpant-PU-Combination 300. Together, the layers provide advanced corrosion protection against saltwater, abrasion and mechanical stress in one of Europe's harshest marine environments.

The zinc primer provides cathodic protection and excellent adhesion, while the polyurethane intermediate and top coat delivers abrasion resistance, flexibility and durability even under aggressive marine exposure. The system is certified by the Federal Waterways Engineering and



Research Institute in Karlsruhe for use in hydraulic steel structures and for environments from ImI to Im<sup>3</sup> under DIN EN ISO 12944-5.

"This was one of the largest and toughest projects we have been involved in the last few years, but it showed exactly what our technology can do," said Fynn Baumfalk, Key Account Manager at Steelpaint. "The schedule slipped again and again and even now some areas remain unfinished, yet our coatings went on when and where they were needed and performed exactly as intended." Our market presence in Wilhelmshaven is growing more and more. First the Jade-Weser-Port, now the gate refurbishment and currently in progress is the refurbishment of sluice "Hooksiel".

The main corrosion protection on the refurbished gate is complete, though minor rework is required and some hot work also needs to be redone before recoats.

Baumfalk confirmed that the Stelpant

coating system will also be used in these areas, with full commissioning of the gate expected in 2026.

The Wilhelmshaven Sea Lock sits at the mouth of the Jade, where the river meets the North Sea. Its location exposes it to salt corrosion, tidal erosion and abrasive silt, demanding the highest levels of protection.

The lock regulates water levels in Wilhelmshaven's inner harbour, strengthens flood defences and provides safe access for both naval and merchant fleets. The port handles a major share of Germany's crude oil, coal and LNG imports, while JadeWeserPort is the country's only deep-water container terminal and the German Navy's principal North Sea base. It has a natural depth of about 18m and can accommodate ships with an LOA (length overall) of up to 430m and a 16.5m draught.

The success of the Stelpant coating could see Steelpaint selected for further phases of JadeWeserPort dock's

wider renewal. Three entirely new dock gates are being discussed for commissioning towards the end of the decade. A feasibility study updated in 2019 confirmed the economic viability of a second container terminal 2km north of the existing one.

### ABOUT STEELPAINT GMBH

For more than 40 years, Steelpaint has enhanced the life and durability of heavy-industry facilities, particularly in the maritime sectors. Thanks to one-component polyurethane resins, the Germany-headquartered company's special high-tech coatings have raised the technological bar in corrosion resistance, offering impressive benefits over conventional epoxy coatings solutions. Steelpaint has origins dating back to the 1890s. Its products are used widely in port and offshore facilities, sheet piling, internal and external linings, tanks, bridges, and ship structures. They can be used in combination with cathodic protection.



# Landlord Port of Brussels' diversification helps it



The Port of Brussels is a landlord port. This means that all cargo handling operations are carried out by its concessionaires, while the port's role is to provide and maintain the infrastructure (quays, terminals, warehouses) that its concessionaires use.

In 2024, total waterway traffic at the

Port of Brussels reached 6.26mt (million tonnes), an increase of 2.6% compared with 2023. Of this, 4.76mt were 'own traffic' handled at Brussels, and 1.50mt were transit traffic along the Antwerp–Brussels–Charleroi axis.

The breakdown by commodity in 2024 was as follows:

- ❖ **Construction materials:** 2.79mt (–3.5% vs 2023).
- ❖ **Petroleum products:** 0.89mt (+21.6%).
- ❖ **Containers and various goods:** 0.59mt (–18.1%).
- ❖ **Agricultural products:** 0.24mt (+15.3%).





# weather cargo throughput fluctuations

- ❖ **Foodstuffs:** 0.07mt (+44.0%).
- ❖ **Minerals and scrap:** 0.15mt (-15.2%)
- ❖ **Chemicals and metallurgical products:** smaller volumes, but showing double-digit growth

Overall, this diversity of traffic categories helps cushion sector-specific downturns. For example, the slowdown in the construction and renovation market in 2024 was partly offset by the strong increase in petroleum products and agricultural/food flows.

The factors influencing annual throughput are therefore primarily external: the state of the construction market, energy demand, recycling activity, the agro-food sector, as well as broader macroeconomic and supply-chain conditions.

As regards infrastructure, the Port of Brussels continues to invest in maintaining and upgrading its facilities. The works at the container terminal quay are nearing completion, and new logistics spaces are being developed to support future growth.



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# ABP to invest £15 million to bring forward new industrial open storage sites in Cardiff and Newport

Associated British Ports (ABP), the UK's leading port operator, has announced an investment of £15 million to unlock over 40 acres of industrial open storage land across its ports in Cardiff and Newport. This strategic move responds directly to rising market demand for flexible, high-specification logistics space in South Wales.

This marks the start of an exciting new strategy to make ABP the go-to landlord for open storage, with a vast choice across its 21 ports and all four corners of the UK.

ABP is one of the only UK landlords actively investing in bespoke open storage platforms across its portfolio, offering occupiers a tailored solution in strategic port locations with multimodal connectivity. This investment will deliver secure, surfaced, and accessible sites ready for immediate occupation.

Helen Thomas, ABP's Head of Property, commented: "ABP is more than a port operator, we're a strategic landowner and commercial landlord with over 2,000 acres of land in Wales, the second largest landowner in Wales and offering unmatched access to South Wales' industrial heartlands and the M4 corridor.

"We're proud to be leading the way in open storage. Few other landlords have the capability to invest at this scale and offer their tenants the flexibility we can. This £15 million investment programme is about unlocking potential, for our customers, for South Wales, and for the UK supply chain."

The investment will bring forward four key sites, with the first available in Q1 2026. These sites include:

- ❖ Queens Road South and Longships



Road at the Port of Cardiff; and

- ❖ Atlantic Terminal and West Way Road at the Port of Newport

These locations are ideally suited for sectors such as steel, renewables, aggregates, and logistics, and benefit from direct access to ABP's port infrastructure, road and rail links, and on-site security.

Thomas, added: "Our sites are in high demand, and that tells us that the market is hungry for quality, well-connected space.

"This investment marks a significant milestone in ABP's commitment to supporting South Wales' industrial and logistics sectors."

Occupiers will benefit from 24/7 on-site security and multimodal access via road, rail, and sea. ABP's South Wales ports also offer high-specification equipment for handling bulk and break-bulk cargoes, supported by a team of experienced stevedores.

Jeff Gibb, Lead Property Asset Manager at ABP also highlighted ABP's collaborative landlord approach: "We take pride in working closely with occupiers to flex and

expand their space as business needs evolve.

"Over the past 12 months, ABP has helped several tenants relocate, consolidate, and grow within our Welsh portfolio."

Kate Openshaw, Associate – Industrial and Logistics at JLL, said: "ABP's investment represents a significant opportunity for the South Wales industrial and logistics market.

"We're seeing strong demand for open storage across the UK — it's emerging as a distinct asset class due to constrained supply and growing occupier requirements for surfaced, secure and accessible open storage land close to major road networks with rail and port access.

"ABP's investment in South Wales sets a new benchmark for the sector, offering occupiers a rare combination of scale, readiness, and strategic location with multimodal connectivity."

ABP welcomes over 100 new tenants annually across its UK portfolio, reinforcing its role as a major commercial landlord and property business.

## Leixões handles first ever Kamsarmax vessel

Portugal's biggest industrial port of Leixões has handled its first ever Kamsarmax bulk carrier. The vessel was able to dock in the inner harbour thanks to improved maritime access and the acquisition of more powerful tugs.

The *Shun Fu Da*, which had sailed to Portugal from China via Taiwan, offloaded 3,550 tonnes of steel coils, each of which weighed anything between 12 and 20 tonnes. It was handled at the port's General Cargo and Bulk Terminal (TCGL). The 229-metre-long vessel is the largest vessel to date to operate at the eastern end of the northern port's mobile bridge. The manoeuvre was only possible thanks to the use of high-traction tugs. Previously, the draught had also been deepened in both the outer channel and the turning basin, while the port breakwater had also been lengthened.

The so-called Kamsarmax class bulk carriers are able to enter the port of Kamsar in the Republic of Guinea, which gives them their name. They are generally larger than traditional 80,000dwt Panamax vessels.

Barry Cross





# NSBT celebrates ten years

## of growth and partnership



*All berths at NSBT.*

Nectar Sierra Leone Bulk Terminal (NSBT) has marked its remarkable tenth anniversary. The Nectar Group is incredibly grateful for the partnerships that it has forged and the progress it has made in facilitating trade and driving economic growth in Sierra Leone.

Nectar Group's presence in Sierra Leone can be traced back to the 1980s when its first operations in the country were handling rice imports on behalf of USAID and the World Food Programme. Today the Group's presence expands on those early years and since 2015 the Group has been operating and maintaining the Bulk Cargo Terminal at Queen Elizabeth II Quay in Freetown.

This important milestone marks a decade of continuous improvement, operation and partnership at NSBT along with key stakeholders such as Sierra Leone Ports and Harbours Authority and the Ministry of Transport.

Over the last decade, NSBT has invested in new and upgraded equipment, training of local personnel, terminal

management software and the refurbishing existing warehouses and other facilities. A land lease in 2017, saw further enhancement such as additional office facilities and larger storage/warehousing capacity.

The company converted its operating

licence into a concession in 2019, that enabled key long-term infrastructure improvements.

As trade increased, it became apparent that the existing two berths were too small and insufficient to support the region's needs as importers were starting

*NSBT before the addition of a third berth.*







to bring larger vessels with increased cargo volumes.

Despite the Covid-19 pandemic, the design for a new deep-water berth was completed in 2021, opened in 2024, and is now in its first year of operation. Today, NSBT operates three berths and is responsible for all the terminal's activities from unloading of cargo from vessels, stacking, storage in port warehouses, loading onto trucks for inland destinations, as well as the procurement and maintenance of all terminal equipment.

Nectar remains proudly committed to investing in Sierra Leone through its terminal improvement programmes, striving for industry best practices, and supporting our local communities in the region.

The Group is also pleased to announce ten-year work anniversaries for:

- ❖ Siamba Kamara — General Manager;
- ❖ Jerry C Kamara — Assistant Operations Manager;
- ❖ Aziz Ibrahim — Senior Operations Supervisor;

- ❖ Musa Sesay — Operations Supervisor;
- ❖ Abu Bakarr Bah — Billing & Invoicing Manager;
- ❖ Martin Kpongo — Assistant Finance Manager;
- ❖ James Bendu — Stores Coordinator;
- ❖ Ebi Nat Thomas — Billing Coordinator; and
- ❖ Jah Dumbuya — Head of Operations.

From humble beginnings to becoming a vital hub for dry bulk cargo, Nectar could not have achieved this without its dedicated team, loyal partners, and the unwavering support of the Sierra Leonean community.

#### LATEST NEWS FROM NSBT

NSBT has been shortlisted for prestigious IBJ Awards — NSBT joins other terminals around the globe on the finalist list for 'Best Dry Bulk Port'.

Nectar is proud to be nominated for the recent developments and improvements at Nectar Sierra Leone Bulk

Terminal. The 'Best Dry Bulk Port' category recognizes a company that has made a significant positive impact on dry bulk ports.

This category highlights efficient, safe and environmentally friendly bulk ports with strong customer satisfaction, recent innovation in port operations and management to delivering success in their region and also global bulk industry.

#### NEW THIRD BERTH & IMPROVEMENTS

With an increased capacity and discharging operations at NSBT, the new third berth is a critical piece of infrastructure which facilitates a larger class of vessel size to call at the Freetown terminal, accommodating vessels of 225 metres and 12 metres operational draught (design draught of 13m).

The new berth has increased capacity at the port by more than 30%, strengthening customer supply chains with enhanced global connectivity, increased reliability, and quicker turnaround times. Cargo movements have contained shipments of bagged rice, flour, crude oil and aggregates.

With the new third berth now fully operational, Sierra Leone's port is better positioned to compete with other regional ports. This upgrade enhances the country's attractiveness to global shipping lines and investors, setting the stage for long-term growth and integration into global trade networks.

Nectar looks forward to the next decade of innovation, efficiency, and continued success.





## JSC “RIKON” ships first A-RMG for Madrid’s new Intermodal Terminal

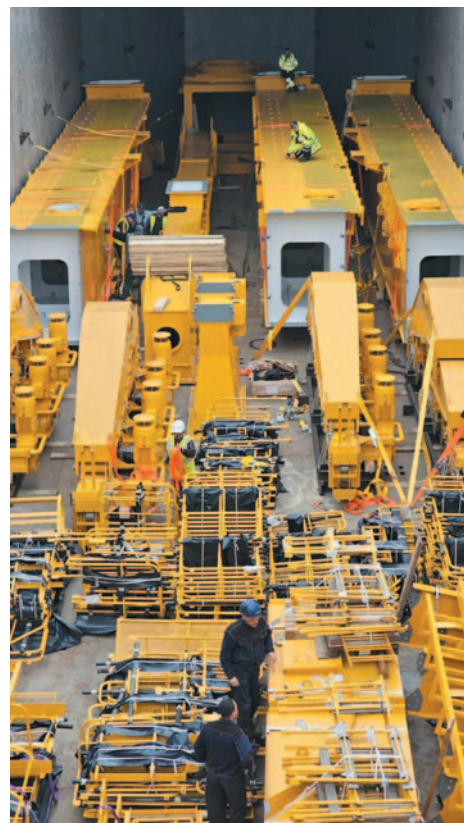
JSC “RIKON” has successfully shipped the first of three fully automated A-RMG (Automated Rail Mounted Gantry) cranes to the new Madrid-Vicálvaro Intermodal Terminal in Spain. The equipment is being supplied for ADIF, the Spanish state-owned company responsible for the national railway infrastructure.

The new A-RMG cranes represent the latest advancement in container handling technology. All three cranes feature fully automated operation with unmanned cabins and are equipped with RROS (RIKON Remote Operation System), enabling complete remote control capability. Key technical specifications include:

- ❖ **lifting capacity:** 40 tonnes
- ❖ **length of cantilever:** 14.3m
- ❖ **span:** 36m

The Madrid-Vicálvaro Terminal, currently being developed by ADIF, represents a significant investment in Spain’s logistics infrastructure. With a project budget exceeding €300 million, the new terminal is designed to become a crucial logistics hub in central Spain, connecting Mediterranean and Atlantic rail corridors. Upon its scheduled launch in 2026, the facility will handle up to 150,000 intermodal units annually, serving as a key distribution point for goods moving between major Spanish ports and inland destinations.

This shipment represents continued progress in JSC “RIKON”’s European expansion, following the successful implementation of projects in Valencia and other European ports and terminals. The advanced automation technology provided for Madrid-Vicálvaro enables the terminal to achieve optimal operational efficiency from its launch, while ensuring maximum safety through automated and remote-controlled operations. This project demonstrates capability of RIKON to deliver cutting-edge technological solutions for modern intermodal facilities and confirms the company’s position as a trusted partner for national infrastructure projects across Europe.



## JSC “RIKON” wins tender to supply double jib level luffing cranes to France

JSC “RIKON” continues with the successful expansion of its presence in the European market by signing a contract for the supply of two fully electric Double Jib Level Luffing cranes to Brest Port, one of Europe’s key maritime ports. This contract marks the company’s second major project in France following the successful delivery of a portal crane to the Grande Port of Marseille in 2021, demonstrating growing recognition of RIKON’s product quality and reliability in the French market.

Brest Port is a major seaport in northwestern France, strategically located on the Atlantic coast of Brittany region. It serves as an important hub for commercial and naval operations, as well as a centre of shipbuilding and repair. The new Double Jib Level Luffing cranes, designed for hook operation, will be used for ship repair tasks. The equipment features a maximum lifting capacity of 15 tonnes and a significant maximum boom



outreach of 70 metres, enabling it to service large-tonnage vessels.

The crane classification complies with group A6 according to ISO 4301/1 standard, ensuring reliability and durability even when operating under

intensive operating conditions.

The successful implementation of the project in the port of Marseille and the new order from Brest open new prospects for further expansion of the brand’s presence in the region.



# Mobile bulk handling solutions: global



The maritime trade and industrial logistics sectors are undergoing an accelerated transformation. In today's environment, where operational efficiency and sustainability are decisive, dry bulk handling plays a central role in the competitiveness of mining, cement, port and agribusiness operations.

Growing volumes, increasing pressure to reduce logistics costs, and the imperative to comply with ever-stricter environmental standards demand equipment that is more flexible, reliable and technologically advanced. In this context, mobile bulk handling solutions have emerged as strategic enablers: systems that eliminate the rigidity of fixed infrastructure and give operators the agility to adapt quickly to shifting demand.

GBS Group International, headquartered in Latin America with a clear vision of global expansion, has positioned itself as a strategic supplier of these solutions. Its speciality lies in designing, manufacturing and delivering mobile equipment that forms the backbone of bulk logistics chains, from mine to port.

## A COMPREHENSIVE PORTFOLIO FOR A DEMANDING MARKET

At the core of GBS Group International's portfolio are mobile and modular conveyor systems — the lifelines of bulk operations.

Building on this foundation, the company has developed a complete range of equipment that covers every stage of the bulk handling cycle: from stockpiling at the mine or plant, to direct shiploading at the port.

- ❖ **Mobile and modular conveyors:** designed to move clinker, coal, fertilizers, aggregates and grains with equal efficiency. Their modular design makes relocation and scaling straightforward, reducing the need for costly civil works and giving operators unparalleled flexibility.
- ❖ **Telescopic stackers (telestackers):** essential for maximizing storage capacity at terminals and yards, these units create well-distributed stockpiles while reducing segregation and material loss. They are particularly valuable in mining and cement, where efficient stock management is critical.
- ❖ **Mobile shiploaders and ship-unloaders:** engineered for multi-purpose ports, these systems enable ship loading and discharge without reliance on fixed infrastructure. With capacities exceeding 2,000 tonnes per hour, they deliver fast, adaptable and economically sustainable operations.

This integrated and modular approach allows GBS Group International to serve as

more than just an equipment supplier. It acts as a strategic partner, providing solutions designed to integrate seamlessly into clients' logistics portfolios, enhancing their productivity and competitiveness.

## GLOBAL REACH, STRATEGIC PRESENCE

While its roots are in Latin America, GBS Group International's reach is global. In recent years, it has supported projects across diverse markets — from expanding port terminals to modernizing cement plants — consistently adapting its equipment to local realities.

GBS Group International's approach goes beyond equipment delivery. It provides solutions tailored to each region's specific conditions: material characteristics, climatic challenges, energy availability and environmental regulations. This adaptability has enabled it to serve strategic sectors such as:

- ❖ **Mining:** coal, nickel, gold, aggregates.
- ❖ **Cement and construction materials:** clinker, limestone, gypsum, bulk cement.
- ❖ **Multipurpose ports:** flexible loading and unloading of a wide range of commodities.
- ❖ **Agribusiness and fertilizers:** urea, NPK, grains.

Looking ahead, GBS Group International's



# innovation from GBS Group International

ambition is clear: to become a Latin American hub with international projection, capable of competing with global manufacturers through a more flexible, client-centred and sustainable model.

## INNOVATION AS A DIFFERENTIATOR

In a market dominated by multinational giants, innovation is GBS Group International's strongest differentiator. Its latest developments focus on integrating IoT sensors and artificial intelligence into conveyors and mobile systems, enabling predictive maintenance capabilities.

This allows operators to anticipate failures, minimize downtime and extend the lifespan of critical components. By connecting these systems to real-time data platforms, GBS Group International provides full visibility of equipment performance, empowering decision-makers with actionable insights.

Complementing this, its solutions incorporate high-efficiency motors and intelligent drives that reduce energy

consumption and carbon footprint — a decisive advantage in industries where sustainability is no longer optional, but a core element of corporate strategy.

## A STRATEGIC ALLY IN A COMPETITIVE WORLD

Globalization has intensified competition across all sectors. Companies are seeking partners who deliver not just equipment, but long-term strategic value.

GBS Group International responds with a service model built around proximity and trust:

- ❖ **Robust, cost-effective designs** balancing initial investment with total cost of ownership.
- ❖ **Customized solutions**, adapted to each material and operating environment.
- ❖ **Local and remote technical support**, ensuring availability and operational continuity.
- ❖ **Commitment to sustainability**, with solutions that reduce emissions, dust and energy usage.

For GBS Group International's clients, this means not only meeting immediate operational needs, but also strengthening their long-term competitiveness in the global marketplace.

## LOOKING TO THE FUTURE

Bulk handling is set to play an increasingly strategic role in global logistics. The expansion of maritime trade, the growth of port infrastructure in emerging markets, and the demand for cleaner, safer operations will define the coming decade.

Within this landscape, GBS Group International reaffirms its commitment to being a global reference in mobile bulk handling solutions. Its vision is clear: every tonne moved must deliver more productivity, lower environmental impact, and greater value for clients.

The future of the sector will be built on innovation, flexibility and strategic partnerships. And in that future, GBS Group International is ready to lead the transformation.

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# Mobile ship-unloaders

unleashing the potential of multipurpose ports



## Bruks Siwertell unloaders prove invaluable in a global dynamic port-scape

Flexible dry bulk handling arrangements on the quayside are proving to be invaluable solutions for multipurpose ports; Siwertell ship-unloading systems are offering significant operational advantages to operators that need agile assets that perform on every level

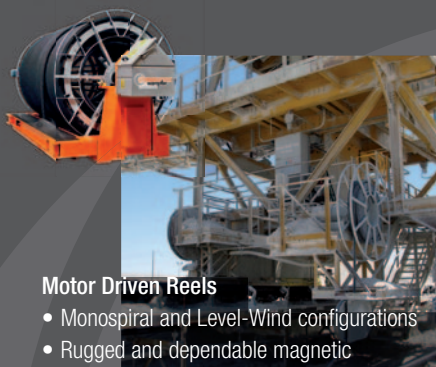
Although many follow trends, global trade in all major and minor dry bulk handling markets fluctuates significantly, and port terminals have to be responsive enough to sustain these vicissitudes. They also have to meet the pressure of increasingly strict environmental regulations if they are to secure or maintain operating licences, and work with the limitations of their geopolitics, organization and infrastructure.

Asset mobility and flexible dry bulk handling arrangements on the quayside are proving to be invaluable, enabling operators to respond, and optimize the profitability of multipurpose quays, where fixed dry bulk handling machinery, such as large, static rail-mounted ship unloaders, are not suitable or permitted.

How can operators best capitalize on a scenario where jetty utilization rates must be maximized, the highest levels of







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*Siwertell road-mobile unloaders are available in three different sizes: the Siwertell 5 000 S, 10 000 S (pictured here) and 15 000 S*



through-ship efficiency need to be achieved, but the quayside must be free when not in use?

#### **FLEXIBILITY AND PERFORMANCE**

An excellent solution is mobile ship-unloading technology. Siwertell systems are forerunners in this sector, not only capable of handling multiple types of dry bulk material, but they can be offered with a range of capacities and mobilities, deliver unparalleled flexibility, operational efficiency and environmental protection.

"Multipurpose ports and harbours are becoming a cornerstone of modern logistics, and offer numerous benefits when meeting the diverse needs of a global dynamic port-scape," says Jan Karlsson, Sales Director, Bruks Siwertell. "Stakeholders in this arena have to think on their feet and look to state-of-the-art mobile dry bulk handling solutions to support them."

Bruks Siwertell offers numerous systems optimized for mobile dry bulk handling. These can range from port-mobile and fully road-mobile models to larger, higher rated capacity machines that have rubber-tyre gantries.

Port-mobile and road-mobile ship-unloaders are based on the proven designs of larger-scale screw-conveyor systems, but are available relatively quickly as they comprise standardized components, which offers substantial costs savings and reduction in lead times.

"In-port mobility is significantly advantageous to multipurpose terminals, and offers some good cost arguments when handling one-off consignments at

non-specialist quays, or small-scale operations at dedicated import quays," Karlsson continues.

#### **MULTIPLE MOBILE ASSETS**

"Mobile unloaders should not just be considered suitable for smaller-scale, niche operations, however. With multiple port-

mobile units in operation working alongside each other, directly unloading into trucks, dry bulk material can be moved very quickly to shore, dramatically reducing the time a ship stays in port and freeing up capacity for other activities on the berth," explains Karlsson.

When finished, using a self-propelled



*Siwertell port-mobile unloader.*



*Siwertell ST 640-M ship-unloader.*



rubber-tyre gantry and an advanced steering system, the port-mobile unloader can be moved away from the quayside and even stowed when not in use. To secure the gantry in all directions when parked, the end pairs of axles, both on the sea-facing and land-facing sides, are turned by 90°.

The port-mobile unloader has a low weight design and does not require rails or any other additional infrastructure or preparatory reinforcement to the quay. It is available in two sizes; a 400tph (tonnes per hour) and a 600tph unit, both of which are capable of servicing vessels of up to 70,000dwt.

As standard, they feature a double-truck loading system, with an optional third system. As they are not interlinked, one, two or all three loading positions can be used independently and simultaneously, delivering the fastest truck loading operation possible; a large-volume intermediate surge hopper also smooths any truck changeovers.

#### TRANSFORMING QUAYS TO TERMINALS

"When fully road-mobile ship-unloading systems are required, the agility, capability and overall performance of our road-mobile ship-unloading range, is impossible to beat," says Karlsson. "They can literally transform a quay with minimal infrastructure into a terminal."

Road-mobile units have a folding structure, which is mounted on a semi-trailer for easy transportation between ports. It only takes 30 to 45 minutes to complete the set-up procedure, with packing away being equally rapid. The road-mobile ship-unloader can be deployed by a single operative, keeping staffing costs low.

Siwertell road-mobile unloaders are available in three different sizes: the Siwertell 5 000 S, 10 000 S and 15 000 S; the largest offering an unloading capacity of up to 500tph for discharging ships up to 15,000dwt. In the last few years, Bruks Siwertell introduced ground-breaking changes to its road-mobile range with the introduction of next-generation models. Over a hundred road-mobile unloaders serve ports all over the world.

When operators need higher capacity ship unloading solutions to serve ports that are receiving vessels up to around 80,000dwt, and are looking for the economies of scale that larger Siwertell ship-unloading models can deliver, these can also be designed to be mounted onto mobile gantries. The most suitable models for this configuration are the Siwertell F-type and Siwertell M-type ship-unloaders.

#### STEP-CHANGES IN EFFICIENCY

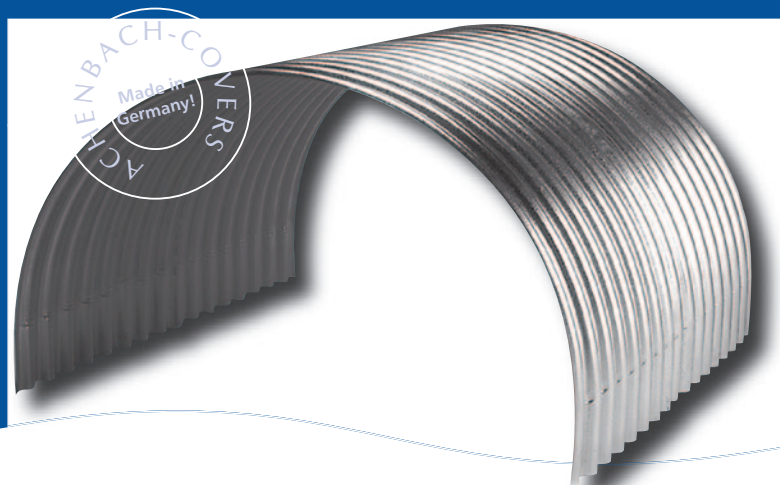
References include those serving the US cement handling industry. For example, in the US Midwest, one operator was looking to secure higher capacities and sustainable cement import growth, and opted for a port-mobile Siwertell 490 F-type ship unloader. It was delivered in 2021 and offers high through-ship efficiencies and a rated cement handling capacity of 800tph, discharging vessels up to 55,000dwt.

Meanwhile, another operator in Tampa, Florida, will make the transition from bagged to bulk cement, using a rubber-tyred gantry-mounted Siwertell ST 640-M ship-unloader. It will handle cement at around 1,500ph, discharging vessels of up to 80,000 dwt.

"Combine all the road and port mobility configuration options with the outstanding performance of Siwertell ship-unloading technology, and you can see why operators are able to turn the challenge of a quayside that has to remain flexible into an opportunity for growth and market agility.

"If you consider this in connection with a Siwertell ship unloader's low weight, its ability to minimize dust, and eliminate spillage, operate dynamically within a hold, and offer market-leading through-ship efficiencies of 70% or more, the clarity of choosing Siwertell technology becomes even more evident; it is a strategic investment in the future of dry bulk handling," Karlsson concludes.

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# State-of-the-art stockyards

equipped for all eventualities



Louise Dodds-Ely

## Engineering high-capacity stockyard systems worldwide

### TAKRAF GROUP SECURES KEY CONTRACTS FOR ITS ADVANCED STACKING AND RECLAIMING TECHNOLOGIES

TAKRAF Group's stackers and reclaimers are a core element of stockyard operations worldwide, ensuring efficient stacking, blending and reclaiming of bulk materials. Designed for high-capacity performance, they combine precise slewing, luffing and travelling functions to optimize stockpile geometry and guarantee effective material homogenization.

Building on this proven capability, TAKRAF Group continues to secure significant orders for its stackers and reclaimers, with recent contracts including the supply and engineering of a complete bauxite handling system for India's leading producer of copper and aluminum, as well as an order for seven stockyard machines from a major phosphate and fertilizer company in North West Africa.

Notably, both these orders came from longstanding clients, a testament both to

the Group's superior technology and quality of service.

### BAUXITE HANDLING

This latest order from India was placed by Hindalco Industries Limited, a flagship company of the Aditya Birla Group, and covers the engineering and supply of a 1,500tph (tonnes per hour) stacking circuit, a 1,200tph reclaiming circuit, a 200tph slewing stacker and a bucket wheel reclaimer. Five in-plant conveyors comprising a total length of 2.6km will also be supplied, as well as two apron feeders and belt feeders, together with supporting equipment. The system is expected to be delivered within 18 months of contract award.

This contract follows earlier projects executed by TAKRAF Group for Hindalco, including, in 2021, India's longest overland conveyor system for the Utkal Alumina Refinery in Odisha. With a rated capacity of 2,850tph, the system was designed to cross difficult terrain and multiple obstacles.

### COMPLEX APPLICATIONS

The robust design of TAKRAF machines makes them particularly suited for complex, high capacity operations where they provide reliable operation in demanding conditions. For example, machines were supplied for the bulk handling of urea for a mega fertilizer plant in Nigeria, which required several special design measures. The system consists of a 400tph portal scraper, 200tph conveyors feeding the storage yard and 400tph reclaiming circuit conveyors. The order was for Train-2 of the project and built on the success of a previous handling system supplied by TAKRAF Group for Train-1 of the project.

The design measures included sealing all conveyor galleries and transfer towers to prevent moisture ingress and protect the product. The portal scraper was fitted with a 'de-lumper' to break storage-induced lumps. To minimize degradation and dust, the truck loading station features cascading chutes, a pit-less weighing bridge and





# Performance delivered

## Groundbreaking Solutions

KOCH Solutions stands at the vanguard of material handling, driving progress with over three centuries of combined expertise and a global portfolio boasting 10,000 projects. At KOCH Solutions, we are redefining material handling excellence with our advanced stockyard systems. Meticulously engineered to cater to the dynamic demands of high-capacity operations, our solutions stand out for their modular innovation and seamless integration into existing workflows. Crafted from a blend of tried-and-tested components, each system we devise is a testament to our commitment to tailor-made efficiency. We don't just provide equipment; we deliver comprehensive, turnkey solutions that resonate with your unique specifications, ensuring operational effectiveness paired with economical investment and operating costs. Our ethos is to forge a path of progress in material handling that aligns with your vision of growth and efficiency.

Comprehensive Planning | Precision Manufacturing | Streamlined Delivery | Dedicated Service



*TAKRAF Portal Scraper Reclaimers are put into operation in Bangladesh.*



de-dusting bag filters.

### **TAILORED SYSTEMS FOR DIVERSE BULK MATERIAL**

TAKRAF Group has extensive references in metals and minerals, including a fast-track contract to design and engineer a 1,993tph radial stacker for Ivanplats' Platreef Project in South Africa and a complete stockyard system to be supplied for a Guinean iron ore complex. This order is part of a contract for an integrated in pit crushing & conveying (IPCC) and material handling system.

In an earlier project in Australia, TAKRAF Group replaced the original stackers at an iron ore mine with fully automated machines that included advanced new features such as the latest generation variable-speed drive control and fibre-optic network infrastructure and an anti-collision system with GPS back up.

Four TAKRAF Barrel Reclaimers were supplied to an Indian steel producer, overcoming the drawbacks of previously installed reclaimers. The machines achieve their rated capacity even at the worst material properties and when the material

is sticky due to high moisture content, and also accommodate the variation in material characteristics during rainy seasons.

For the power industry, the Group supplied four full portal scraper reclaimers to Bharat Heavy Electricals Limited (BHEL) for its Maitree super thermal power project in Bangladesh and four portal reclaimers to a new multi-commodity power plant in Japan.

Similarly, the ports and terminals sector remains an important market, with recent projects including the supply of a replacement stacker for a bulk terminal in Australia, a 7,200tph bucketwheel reclaimer for a long-standing South American client, and the replacement of a 6,000tph rail-mounted stacker for a customer in Mexico.

Two TAKRAF High-Capacity Bucketwheel Reclaimers ordered for a privately operated port in India are amongst the largest of such machines operating in India, considering boom length and reclaiming capacity. The reclaimers were designed with a number of innovative features for handling various material types and for operation on the same tracks as two existing machines.

### **COMPREHENSIVE STOCKYARD SYSTEMS WITH FULL LIFECYCLE SUPPORT**

TAKRAF Group provides a wide range of advanced stockyard equipment, which is fully supported by specialized maintenance solutions. These range from continuous condition monitoring and spare parts supply right up to major repairs, including complete refurbishments and equipment relocation. For example, a key contract involved refurbishing and relocating a TAKRAF Bucketwheel Reclaimer from a sister operation in Chile to address increased reclaiming capacity needs, driven by a major investment aimed at offsetting declining ore grades and boosting production.

TAKRAF's range includes combined stacker-reclaimers suited to operations requiring flexibility where simultaneous stacking and reclaiming are not needed, while its broad range of stackers serves applications from heaping circular or longitudinal piles to homogenizing and blending materials.

For reclaiming, TAKRAF offers several machine types tailored to flow rates and material requirements from boom-type bucketwheel reclaimers to bridge-type bucketwheel reclaimers and drum reclaimers for precise homogenization. Fully automated scraper reclaimers are increasingly used in open, enclosed or covered storage and are available in side, portal or bridge-type designs.

With proven technology, tailored engineering, and global service support, the Group continues to deliver reliable stockyard solutions that meet the most demanding operational and environmental requirements.

*Innovation out of tradition — it pays to talk to a specialist.*

*TAKRAF Radial Stacker at the Platreef Project in South Africa.*





## Stockyard efficiency: mobile feeding solutions from SAMSON Materials Handling



*A BF0415T Stormmajor® unit at the launch event in July 2025 (example: photo Boom Feeder)*

Running an efficient stockyard is vital to the success of any bulk handling operation. Millions of tonnes of materials such as coal, ores, aggregates, fertilizers, and biomass are moved through stockyards each year. The choice of equipment directly affects throughput, safety, and operating costs. Operators increasingly need solutions that are flexible, reliable, and able to integrate with both existing and new systems.

SAMSON Materials Handling Ltd, part of the AUMUND Group, has built its reputation on supplying mobile intake and feeding equipment for dry bulk handling. Two key solutions are the Mobile Material Feeder and the Boom Feeder (BF0415T and BF0420T). Both are designed to give stockyards a combination of capacity, mobility, and adaptability that fixed installations often lack.

### MOBILE MATERIAL FEEDER: FLEXIBLE INTAKE AT GROUND LEVEL

The Mobile Material Feeder is a surface-level intake unit that replaces traditional underground hoppers. Bulk material can be received from trucks or wheel loaders and transferred in a controlled flow to ongoing conveyors. This removes the need for costly civil works while offering much greater flexibility. In a stockyard, feeders can be placed where they are needed most, supplying stockpiling conveyors or reclaim systems. If operations change, the equipment can be relocated quickly. The

controlled discharge helps to reduce spillage, dust, and material degradation, which is especially important when handling friable or dusty commodities.

### BOOM FEEDERS: STOCKPILING AND RECLAIM IN ONE UNIT

The Boom Feeder takes the principle of the mobile feeder a step further. Alongside a high-capacity intake, the machine includes a luffing and radial boom conveyor. The BF0415T and BF0420T models are mounted on crawler tracks and supported by outriggers during loading. They are operated by remote control, allowing precise movement and positioning within the yard. In practice, a Boom Feeder can be positioned to receive material from trucks or loaders, then stockpile it in windrows or conical piles. The controlled flow reduces dust emissions and limits segregation of material sizes. The same machine can also feed directly onto ongoing conveyors for transport to plant, rail, or shiploading systems. This dual function makes the Boom Feeder especially useful where yards need both flexible stockpiling and efficient reclaim.

These systems are used worldwide across a wide range of industries, handling commodities such as coal, coke, ores, clinker, limestone, fertilizers, grains, and biomass. Clients include mines, steel plants, cement works, power stations, and ports. Many choose mobile feeders for projects

where operational needs change over time or where infrastructure investment must be kept to a minimum.

### COMPETITIVE FOCUS: MOBILITY, DUST CONTROL, INTEGRATION

Bulk handling facilities today face pressure to manage costs, improve safety, and reduce environmental impacts. SAMSON has focused its recent developments on these areas. Mobility and adaptability are key: tracked undercarriages, outriggers, and radio remote control allow machines to be moved and deployed without heavy civil works. Dust control is another priority, with feeders that can be paired with telescopic loading chutes and dust suppression systems to reduce emissions. Compatibility with existing conveyors, stackers, and reclaimers ensures equipment can be integrated easily into both upgrades and new builds. These developments make feeders a practical option where operators want to expand or adapt stockyard capacity without the time and cost of major construction projects.

Recent contracts have highlighted this demand. Boom Feeders have been delivered to coal operations in Africa, while mobile feeders have been integrated into ports and terminals in Europe and Asia. Each project reflects the same requirement: flexible stockyard equipment that can support both receiving and dispatch functions within bulk logistics chains.





### WORKING AS PART OF THE AUMUND GROUP

SAMSON Materials Handling, based in Ely, UK, became part of the AUMUND Group in 2002. Within the Group, SAMSON focuses on mobile bulk handling equipment, while AUMUND Fördertechnik provides conveying and storage technologies, and SCHADE Lagertechnik specializes in stackers, reclaimers, and complete stockyard systems. Together, the companies cover the full chain of dry bulk logistics, from mine and plant through to port and terminal.

Modern stockyards demand more than robust conveyors — they require equipment that adapts, moves, and

integrates seamlessly. SAMSON's mobile feeders and boom feeders contribute to this by combining high-capacity handling, controlled discharge, and mobility. Alongside SCHADE's expertise in fixed stockyard systems, they form part of a wider toolbox of technologies designed to help operators manage bulk materials safely, efficiently, and sustainably.

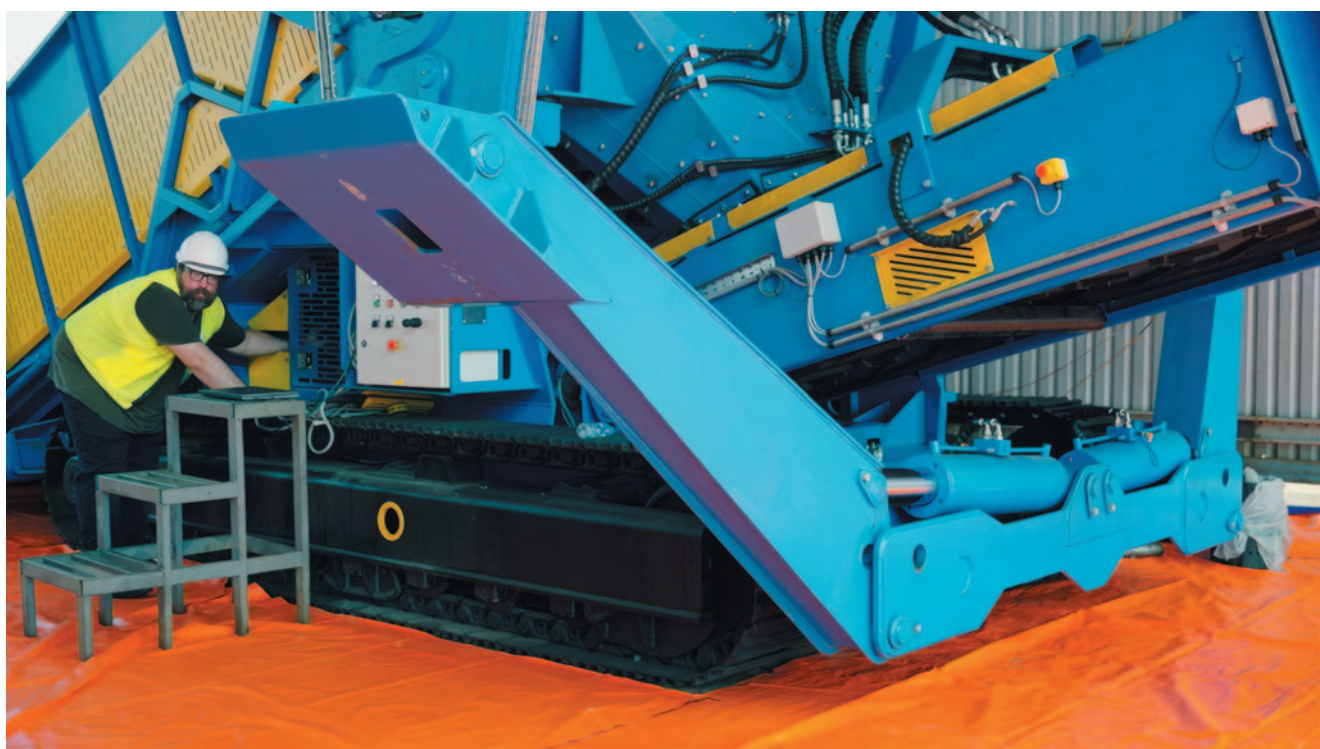
### ABOUT SAMSON

SAMSON Materials Handling Ltd, based in Ely, UK, is a key member of the AUMUND Group, specializing in mobile bulk material handling solutions. With over 50 years of experience, SAMSON designs and manufactures flexible, high-performance

equipment for ports, terminals, power plants, and industrial applications.

As part of the AUMUND Group, a global leader in conveying and storage technology, SAMSON benefits from an extensive worldwide network. The group includes AUMUND Fördertechnik GmbH, SCHADE Lagertechnik GmbH, TILEMANN GmbH Chains & Components, AUMUND Group Field Service GmbH, and AUMUND Logistic GmbH.

Operating across 20 locations in Asia, Europe, North and South America, and supported by five strategic warehouses, the AUMUND Group delivers innovative and reliable solutions for bulk material handling worldwide.





## Load it up? Designing for conveyor transfer efficiency in ports

Proper loading and distribution at the point where the material touches the belt are linked to the long-term belt and system health, as well as safety and efficiency, writes Dan Marshall/Process Engineer, Martin Engineering. Sharp and heavy raw material in an unobstructed vertical drop onto a belt is not the only factor that reduces belt life and breaks rolling components. Varying sizes of conveyed material — rock, aggregate, sand, slurry — each present unique loading issues at stages throughout the transport cycle. Along with the unique handling issues also come specialized safety concerns that also need to be addressed [see Fig. 1].

### SIGNS OF IMPROPER BELT LOADING

No two operations are alike. Failure to consider all aspects of design will result in unnecessary dust, spillage, and generally shorter belt and equipment life. When designing a loading zone, engineers should account for several elements:

1. Natural material movement
2. Material adhesiveness
3. Material distribution
4. Material interaction with the belt
5. Bulk density
6. Safety and maintenance

#### 1. NATURAL MATERIAL MOVEMENT

Some chute designs have rock boxes or shelves that slow the descent of cargo but can result in clogging or sudden surges when deposits of material break free. Flat chutes can produce splashing and backflow that damage components and result in spillage, dust, and uncentered belt loading. A curved design better controls material flow and remedies these issues by slowing the descent and centring the cargo.

Several chute designs feature rock boxes or shelves that slow the descent of material but can result in clogging or sudden surges when material breaks free. Flat chutes can produce splashing and backflow that damage components and

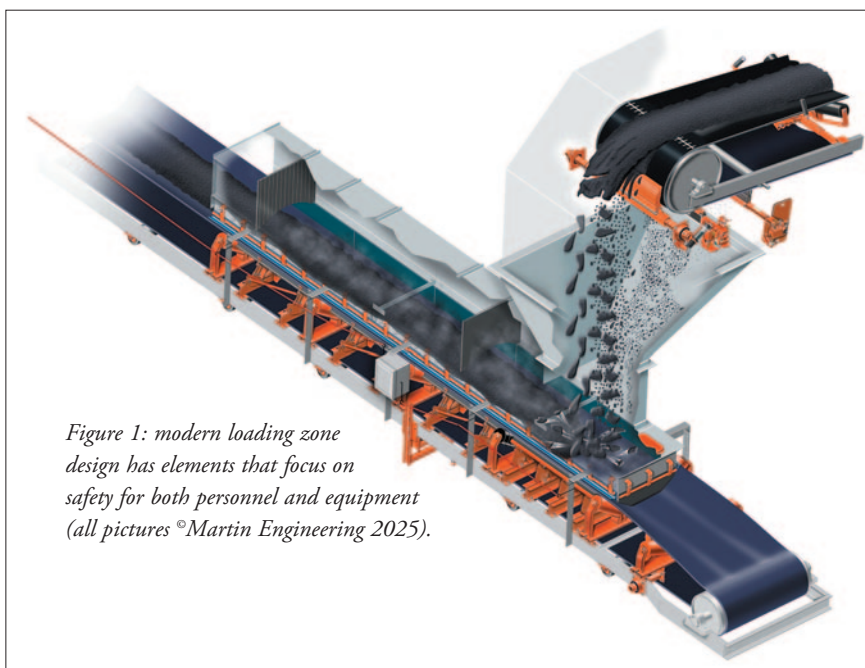
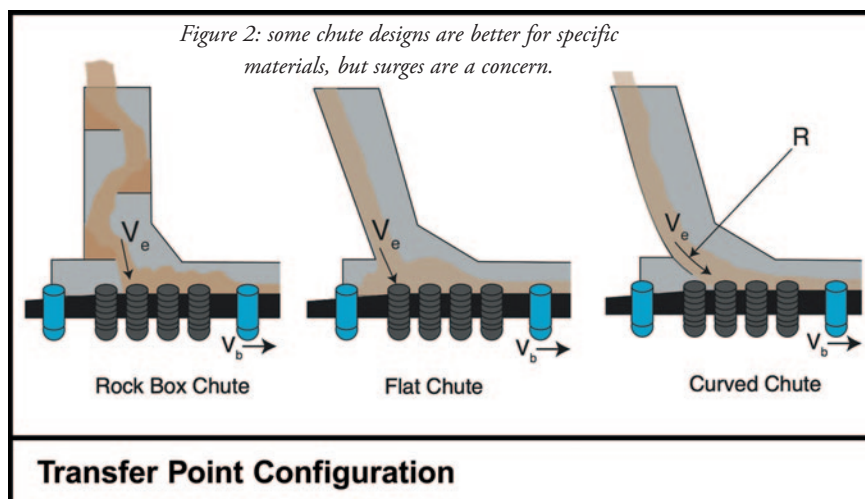


Figure 1: modern loading zone design has elements that focus on safety for both personnel and equipment (all pictures ©Martin Engineering 2025).



result in spillage, dust, and uncentered belt loading. A curved design better controls material flow and remedies these issues by slowing the descent and centring the cargo [see Fig. 2].

Conveyor system designers should be acutely aware of sudden surges caused by a large buildup, abruptly loosening and entering the cargo stream. Sudden heavy

deposits of cargo onto the belt may throw off the center of gravity, leading to mistracking. Surges also cause excessive stress to the system components, particularly the drive motor and belt support system, increasing the cost of operation.

#### 2. MATERIAL ADHESIVENESS

In some mining operations, there are other considerations, such as moisture, magnetic qualities, silica content and the direction of the metal grain on the surface of the chute walls that can contribute to chute plugging and excessive downtime. Systems may not always clog right away; instead, the weight of buildup might cause a sudden surge that overwhelms the loading zone.

#### 3. MATERIAL DISTRIBUTION

The surcharge angle is the angle of the pile in relation to the contact with the belt after

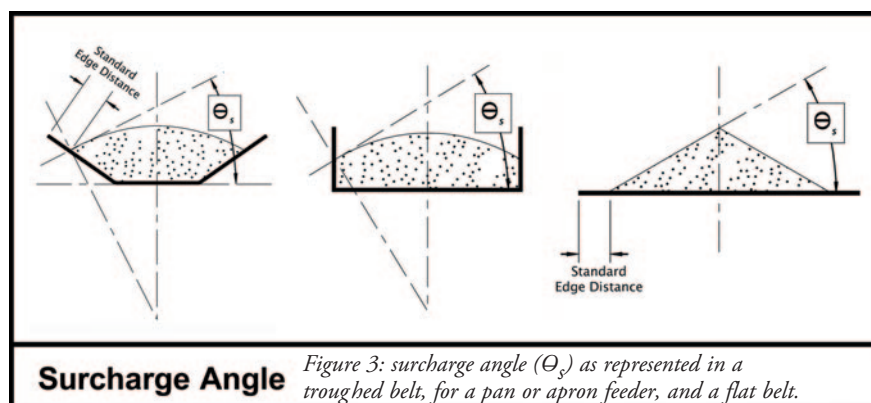


Figure 3: surcharge angle ( $\Theta_s$ ) as represented in a troughed belt, for a pan or apron feeder, and a flat belt.



it achieves a stable profile [see Fig. 3]. This establishes how quickly and at what angle the belt should be troughed. It also gives insight into the sufficient belt width to create the proper material edge distance to contain the cargo and prevent spillage. Of course, this should be calculated in tandem with the *consolidated bulk density* — the density of the material due to vibration during transport from tail pulley to head pulley — to determine the proper material edge distance and trough angle. [1]

#### 4. MATERIAL INTERACTION WITH THE BELT

Improper loading of small sharp materials like aggregate, crushed stone and gravel can produce significant dust and spillage along walkways, fouling the return side of the belt and becoming entrapped between the skirtboard and belt, resulting in belt damage. Uneven loading can cause the belt path to shift, causing mistracking and creating spillage along the entire length of the system [see Fig. 4].

Improper loading of smaller sharp materials like aggregate, crushed stone and gravel can produce significant dust and spillage along walkways, fouling the return side of the belt, and becoming entrapped between the skirtboard and belt, with subsequent belt damage as a result.

#### 5. BULK DENSITY

The *loose bulk density* is the weight per unit of volume of material in a non-compacted condition. Although the *consolidated bulk density* of some materials can cause the troughed cargo to condense into a much smaller size, once the particulates separate in the transfer chute at the point of discharge, the volume can increase considerably. So loose bulk density should be recalculated and used to determine the geometry of each transfer point based on this change.

#### 6. SAFETY AND MAINTENANCE

When receiving cargo from other



*Figure 4: contact with the stringer can seriously affect belt life and system structural integrity.*

conveyors, feeders, front loaders, railcars, etc., the paramount concern in any design should be safety. Labour and safety issues for monitoring and maintaining the flow of material can and will be costly if overlooked.

It is incumbent upon the designer to take a holistic view of the system beyond the production volume of the operation. Aside from being just a hollow vessel through which material is guided, a well-designed chute must limit individual worker exposure to hazards when maintaining the system. This is achieved by controlling throughput, impeding obstructions and sealing the chute to prevent spillage and dust [see Fig. 5].

#### PLAN FOR THE KNOWNs, BUDGET FOR THE UNKNOWNs

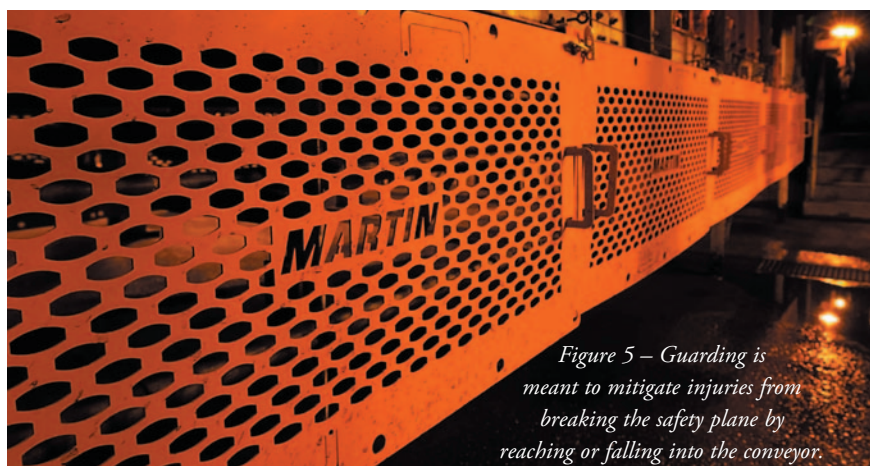
In an ideal world, all of these items would be considered in the design, however, speculative planning can be onerous and wasteful. Once the system is running at full capacity, unforeseen issues with weather, dust or settling can always arise. Several conveyor accessories can compensate for these issues without an extensive rebuild.

#### PROTECTING THE TAIL PULLEY

Misalignment at the tail pulley is generally a result of a fouled pulley face, inadequate return tracking or a damaged belt. Although a warped belt typically necessitates a replacement, other requirements prior to entering the loading zone include creating an even belt path, centring the belt on the pulley, shaping the belt into the desired profile for load carrying (flat vs. troughed loading), and sealing the back and edges of the load zone to prevent spillage.

A tail pulley face can be fouled by fugitive material moving against the belt path or spillage migrating to the return side of the belt. The fugitive material rushes toward the tail pulley at the speed of the system and is consumed by the belt and pulley, resulting in one or more of three failures: the belt, the pulley, or the material.

- ❖ The belt can fail from material impacts or high-speed abrasion that results in a rip or hole, generally from the underside. Once this happens, a belt replacement is usually the only solution. Splices can also fail due to over-tensioning or unequal tensioning from buildup on the tail pulley.
- ❖ If the material fails, it is crushed under the intense pressure between the belt and pulley and adheres to the pulley face and belt, resulting in slippage and mistracking [see Fig. 6].
- ❖ A gouged, worn or damaged tail pulley can cause misalignment or component



*Figure 5 – Guarding is meant to mitigate injuries from breaking the safety plane by reaching or falling into the conveyor.*

[1] Swinderman, R. Todd; et al.: *Foundations™: The Practical Resource For Cleaner, Safer, More Productive Dust & Material Control*, Fourth Edition. Ch. 25, pp. 400-401. Martin Engineering, Worzalla Publishing Company, Stevens Point, WI. 2009. <https://www.martin-eng.com/content/page/552/foundations-conveyor-systems-book>



failure, which leads to expensive downtime and repair. If material lumps are large and dense, the pulley can actually be forced out of round.

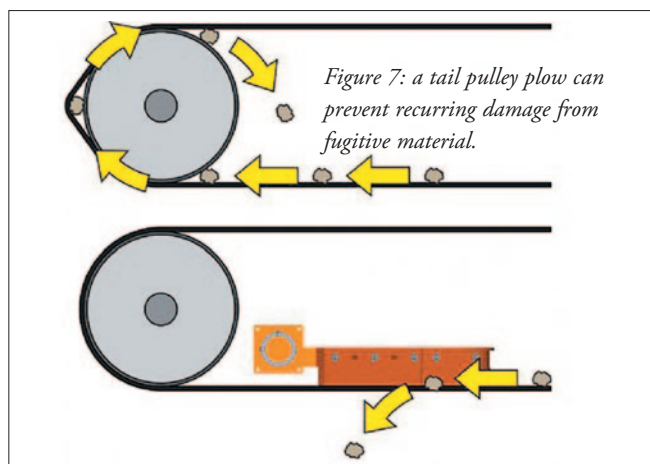
This can be addressed by placing a plough immediately before the tail pulley with a polyurethane blade that rides lightly on the belt profile, deflecting fugitive material away from the pulley before it is damaged [see Fig. 7].

#### BACKFLOW AND SPILLAGE FROM THE TAIL PULLEY

Fouling from the loading zone above the tail pulley can happen when cargo backflows against the belt path, either during loading on an incline or at



*Figure 6: tail pulley fouling can be uneven, causing misaligned loading zone entry.*



*Figure 7: a tail pulley plow can prevent recurring damage from fugitive material.*

impact, such that it causes fugitive material to splash back onto the tail pulley. A tail box can help mitigate some of these issues by enclosing the belt's entrance into the loading zone, preventing spillage and capturing material moving against the belt path [see Fig. 8].



*Figure 8: a tail box helps prevent backflow of spillage and dust at the rear of the chute.*



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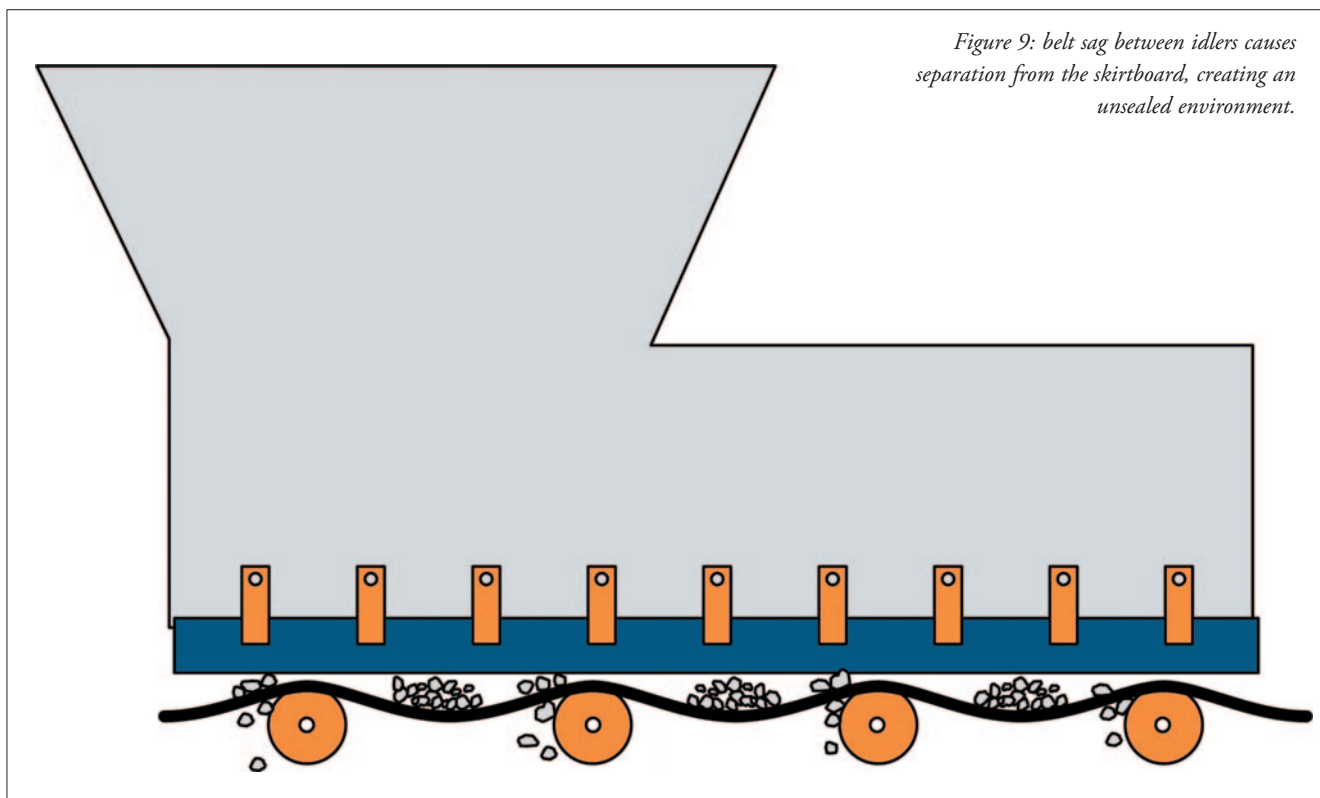


Figure 9: belt sag between idlers causes separation from the skirtboard, creating an unsealed environment.

### BELT SUPPORT

Installed directly under the chute discharge, impact cradles alleviate belt damage by absorbing the forces from the landing of material on the belt. Many operators are moving away from moving impact idlers in favour of static cradles that feature a bed of steel angles lined by energy-absorbing impact bars with a top layer of low friction, ultra-high molecular weight (UHMW) polymer or polyurethane. Eliminating moving parts and the requisite lubrication of rolling components drastically reduces the amount of maintenance and improves safety by limiting worker exposure to the equipment. Able to be installed after the

initial construction in most cases, belt support and impact cradles can curtail spillage that often develops in loading zones. Some manufacturers have even developed innovative designs that mount the cradles on rails, allowing slide-out removal to reduce maintenance time and improve safety.

The space between impact idlers can create a small gap between the skirtboard and the belt [see Fig. 9]. The impact of material on the belt can cause a splashing effect of fines and produce air turbulence that seeks exit points from the chute through these gaps, pulling dust and spillage with it. The bar design retains a consistent

seal at the loading point to reduce the amount of spillage and dust emissions. The modular design of the typical cradle system allows the belt support to be extended as far as the circumstances require.

Facilities can reduce the cost of operation by simply installing impact cradles, controlling labour hours needed for cleanup and maintenance while extending the life of the belt and surrounding equipment.

### CASE STUDY — BELT SEALING IN RIO DE JANEIRO, BRAZIL

A large port terminal in Rio de Janeiro, Brazil, experienced ongoing issues with material spillage, buildup, and entrapment around the conveyor transfer point loading raw ore. Fines leaked through gaps between the belt and the skirtboard. Abrasive material that didn't escape became trapped between the belt and the skirting. This caused line erosion of the belt, increased the risk of fraying and tearing, and reduced the life of the belt. Significant material spillage required frequent manual cleanup. Additional labour was needed to monitor and adjust the skirting, which further raised the cost of operation.

To address the issues, Martin Engineering was invited to the site. After a detailed assessment, a complete Martin® skirting system was installed for testing. The solution included the Martin® skirtboard liner (mounted on the inner side of the skirtboard) and the Martin®



Various sized material offers a challenge with uneven weight on the belt creating gaps for fines to escape.





*The canoe liner protects against punishing material and the dual skirting seal compensates for belt fluctuations.*

ApronSeal™ Double Skirting HD (on the outer side of the skirtboard). This setup was designed to effectively contain material spillage, reduce belt wear, and cut down on the need for frequent adjustments, ensuring better performance and reliability for the conveyor system.

After 167 days of continuous operation, operators reported positive results. The Martin® skirting system contributed to:

- ❖ A significant reduction in material spillage.
- ❖ An average 40% decrease in belt wear in the skirtboard area.
- ❖ Longer intervals between preventive maintenance reduce the need for interventions.
- ❖ Reliable performance, with components still in good condition at the end of the testing period.

With KPIs met and durability proven, the solution was applied to other areas of the plant for less dust and spillage, a greater belt life, and a lower cost of operation.

## CONCLUSION

Loading zone design is not an exact science, and with so many considerations, some details inevitably get missed. Until the system is up and running, engineering

design can only provide highly informed scientific estimates that may change. Unpredictable factors such as weather, foundation settling and variations in the material density can have significant effects in the post-construction operations and efficiency.

Luckily, there is equipment specifically designed to mitigate these design issues and engineered to fit any system retroactively. It is only through experience, observation, and testing — and some smart engineering — that the correct retrofit can be applied.

## ABOUT THE AUTHOR

Daniel Marshall received his Bachelor of Science degree in Mechanical Engineering from Northern Arizona University. With nearly 20 years at Martin Engineering, he has been instrumental in the development and promotion of multiple belt conveyor products. He is widely known for his work in dust suppression and considered a leading expert in this area. A prolific writer, Marshall has published over two dozen articles covering various topics for the belt conveyor industry; he has presented at more than fifteen conferences and is sought after for his expertise and advice. He was also one of the principal authors of Martin's

FOUNDATIONS™ *The Practical Resource for Cleaner, Safer, and More Productive Dust & Material Control*, Fourth Edition, widely used as one of the main learning textbooks for conveyor operation and maintenance.

## ABOUT MARTIN ENGINEERING

Martin Engineering is a global leader in bulk materials handling solutions. For over 80 years, Martin has designed, manufactured and installed innovative products that make the world's foundation industries cleaner, safer, and more productive. Based in the USA, the privately owned company has drawn on its unrivalled experience and expertise to help operations improve safety, enhance material flow, reduce spillage and dust, and minimize downtime. With factory-owned facilities in 20 countries, on-the-ground presence in another 40, and a worldwide service partner network, Martin has built an enviable reputation for high performance products delivered with exceptional technical service and support. The company's comprehensive *Foundations*™ textbooks, learning resources, and training programs are the global standard for the efficient and effective design, operation, and maintenance of bulk materials handling equipment.



## Wearing thin

Conveyors are the most efficient method of handling bulk materials, but their cost-effectiveness depends on the length of working life and lack of need for regular intervention to carry out running repairs.

Thanks almost entirely to one or two leading European and North American manufacturers, primarily Fenner Dunlop, the technology used to produce conveyor belts has advanced enormously in recent years. Today's leading brands are providing a working lifetime of up to five times longer than their competitors. Unfortunately, most operators continue to waste money by replacing belts far more frequently than should be necessary. Here, leading conveyor belt specialist Jeremy Clark explains why this is happening.

### BELT LONGEVITY — THE BIGGEST INFLUENCE

The quality of the rubber is the biggest single influence on the performance and longevity of a conveyor belt. There are many different types of rubber compound used for rubber multi-ply belts because modern-day belts have to deal with a multitude of different (and often combined) demands including abrasion, heat, oil, ozone, fire and more. These compounds are commonly referred to as known as 'cover grades' or 'cover qualities'. They are almost entirely synthetic because of its greater versatility and, by using literally dozens of different chemicals and substances, they can be engineered and adapted to cope with a multitude of demands.

There are two internationally recognized sets of standards for abrasive



*Synthetic rubber can be engineered and adapted to cope with a multitude of demands.*



*Surface cuts and gouges link up.*

wear, EN ISO 14890 (H, D and L) and DIN 22102 (Y, W and X). In Europe, it is the longer-established DIN standards that are the most commonly used. DIN Y (ISO 14890 L) generally relates to 'normal' service conditions. In addition to resisting abrasive wear DIN X (ISO 14890 H) also has good resistance to cutting, impact and gouging. DIN W (ISO 14890 D) is usually reserved for particularly high levels of abrasive wear, which is relatively uncommon in the world of bulk material handling.

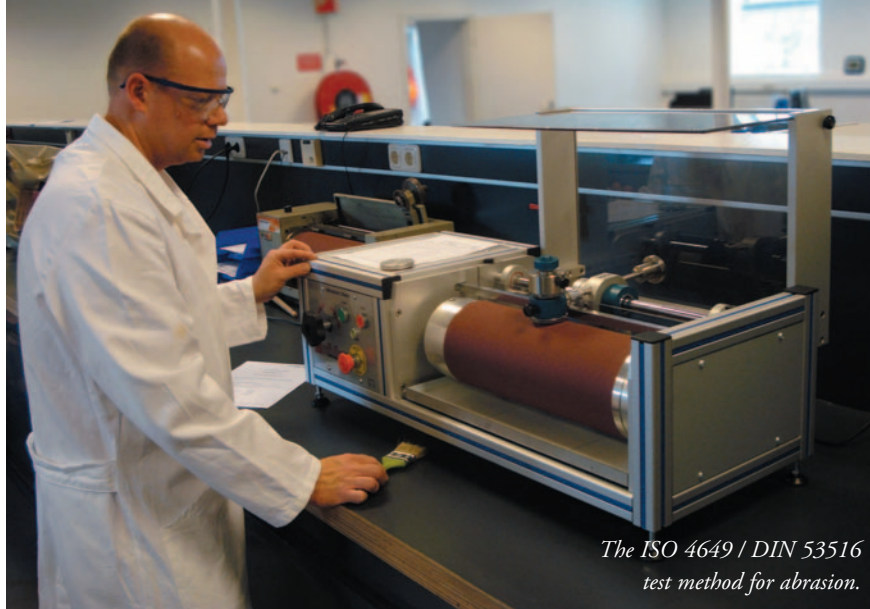
Wear on the top cover is primarily caused by the abrasive action of the materials being carried, especially at the loading point or 'station' where the belt is exposed to impact by the bulk material and at the discharge point where the material is

effectively 'accelerated' across the belt surface. Many bulk cargoes such as coal are not especially abrasive but materials that are sharp and hard can cut and gouge the surface causing accelerated deterioration. Although the size of the damaged area is often fairly small, they tend to join up with other damaged areas, resulting in pieces of rubber cover being literally cut out of the belt surface.

### WEAR TESTING

The test method for abrasion (ISO 4649/ DIN 53516) is actually quite simple. Abrasion resistance is measured by moving a test piece of rubber across the surface of an abrasive sheet mounted on a revolving drum and is expressed as volume loss in cubic millimetres. The most important





*The ISO 4649 / DIN 53516  
test method for abrasion.*

thing to remember when comparing abrasion test results is that higher figures represent a greater loss of surface rubber which means that there is a lower resistance to abrasion. Conversely, the lower the figure the better the wear resistance. Regardless of the type of cargo, in bulk handling the absolute maximum volume loss should be no more than 150mm<sup>3</sup>.

A word of caution here because a good quality DIN Y (ISO 14890 L) grade rubber can often have a better level of abrasion resistance than a poor-quality DIN X (ISO 14890 H) or even DIN W (ISO 14890 D) grade rubber.

Comparing an offer from one manufacturer to another is made very difficult because the technical datasheets provided by manufacturers and traders only show the minimum figure demanded by a particular test method or quality standard rather than the actual performance that the belt they are offering should be expected to achieve. The only exception to this is Netherlands-based Fenner Dunlop which shows the average results achieved during the strict quality testing regime carried out in its laboratories on every batch of rubber that it produces.

### THICKER IS NOT NORMALLY THE ANSWER

Although the thickness of the cover can be an important consideration, the actual wear-resistant properties of the rubber are much more important. If it is felt necessary to increase the cover thickness to compensate for premature wear, then that is a sure sign that the level of abrasion resistance is inadequate. As well as good abrasion resistance, good quality rubber will also have superior tear strength (measured as either N/mm<sup>2</sup> or MPa) so that it can better resist rip and tear propagation.

Crucially, wear and tear caused by

abrasive action, cutting and gouging, is significantly accelerated due to degradation caused by the unavoidable exposure to ground level ozone and ultraviolet light.

### ACCELERATING THE WEAR PROCESS

Contrary to popular belief, the damage caused by ozone (O<sub>3</sub>) and ultraviolet light (UV) is not limited to high altitudes or sunny climates. Ground level, 'harmful' ozone, is created by the photolysis of nitrogen dioxide (NO<sub>2</sub>) from automobile exhaust and industrial discharges. The reaction is known as ozonolysis.

Tiny traces of ozone in the air attack the molecular structure of rubber. It increases the acidity of carbon black surfaces with polybutadiene, styrene-butadiene, nitrile and natural rubber the most sensitive to degradation. The first signs are cracks that appear on the surface of the rubber. Further attacks occur inside the freshly exposed cracks, which continue to steadily grow until they complete a 'circuit' and the product separates or fails.

Ultraviolet light from daylight and fluorescent lighting also has a seriously detrimental effect because it accelerates rubber deterioration by producing photochemical reactions that promote the oxidation of the rubber surface resulting in a loss in mechanical strength. This is known as 'UV degradation'. Rubber belts that are not fully protected against ozone and UV can start to degrade as soon as they leave the production line. Despite its crucial importance, ozone and UV resistance is very rarely, if ever, mentioned by traders or manufacturers.

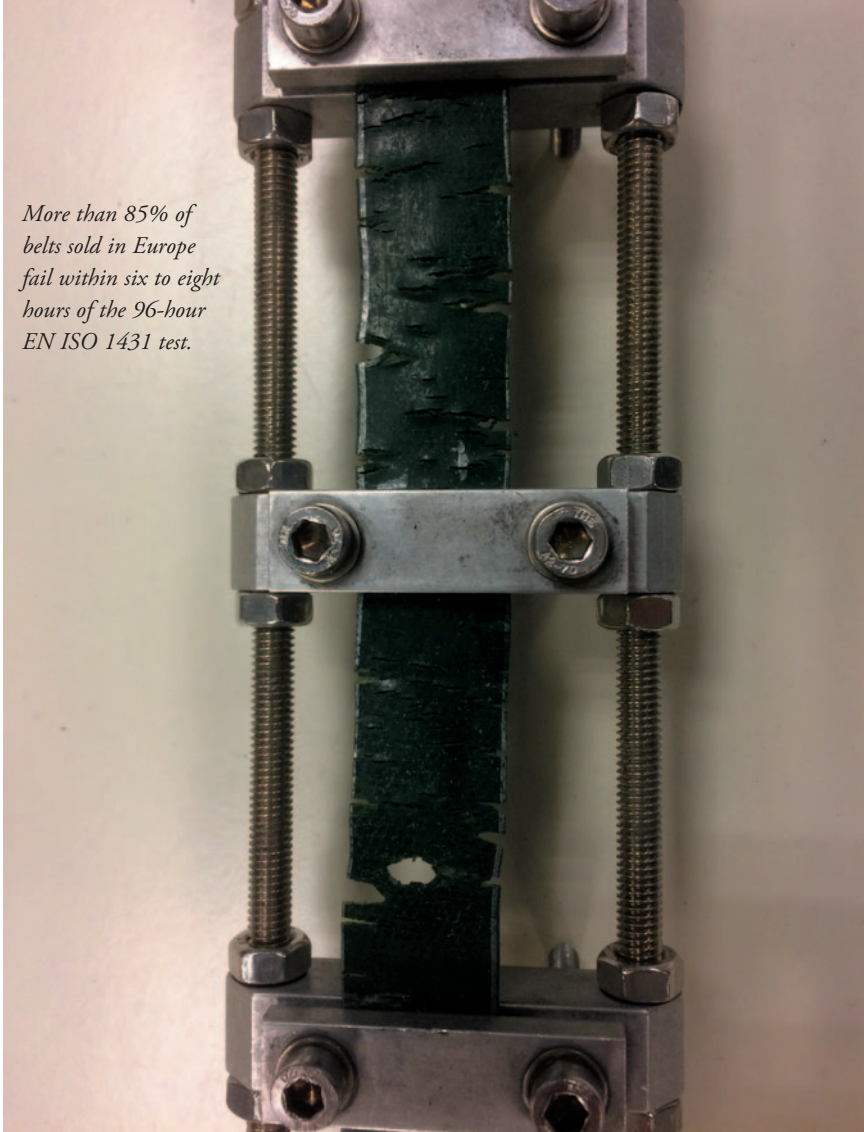
Ozone and ultraviolet damage is entirely preventable simply by the addition of antioxidants to the rubber compound mix. Despite this, tests show that more than 85% of belts sold in Europe fail within only 6 to 8 hours of the 96-hour EN ISO 1431



*Ozone & UV damage  
considerably shorten belt life.*



*More than 85% of belts sold in Europe fail within six to eight hours of the 96-hour EN ISO 1431 test.*



test because most manufacturers see antioxidants not only as an avoidable cost but something that delays the replacement cycle. My advice is to always make ozone & UV resistance a required part of the specification when selecting any rubber conveyor belt.

### BUYING CRITERIA

Although making a choice based on lowest price is very rarely the best approach, the fact remains that conveyor belts are usually big budget items. As a result, although they will not admit it, most buyers will invariably have price at the top of their selection criteria. However, certainly in the case of complex components such as conveyor belts, the cost can only truly be measured over the lifetime of the belt. As the old saying goes, price is what you pay but the cost is what you actually spend.

The conveyor belt market is hugely competitive and the reason for this has been the growing market dominance of Southeast Asian manufacturers over the past twenty years, primarily China, who are offering apparently the same specification products at less than half the price of the top European and North American manufacturers. The common explanation

for this disparity is the much lower wage costs in Asia, but this is a huge misconception. Thanks to the ever-increasing level of automation, the labour cost element is actually less than 7% of the cost of producing a conveyor belt whereas raw materials represent some 70% of the cost. It is these two crucial facts of life that are the reason why so many operators are

wasting huge amounts of money replacing belts far more frequently than necessary.

### IT'S ALL ABOUT THE RUBBER

Rubber represents some 70% of the mass and 50% of the raw materials cost of a conveyor belt. Consequently, it is by far the biggest opportunity for manufacturers to cut costs and improve their price competitiveness. Methods include the use of unregulated, low-grade raw materials, the use of bulking agents such as chalk and clay, the use of increasingly larger proportions of recycled scrap rubber of highly questionable origin and the substitution of essential polymers such as carbon black with low-grade versions created by various means including the burning of scrap vehicle tyres.

Another common method is reduced quantities and often the total omission of key ingredients such as the antioxidants needed to resist the premature degradation caused by exposure to ozone (O<sub>3</sub>) and ultraviolet light. Such practices allow unscrupulous manufacturers to massively undercut the prices of the few remaining manufacturers at the quality end of the market.

### ONE FOR THE PRICE OF THREE

Fitting and replacing two or three 'economically priced' belts rather than buying a single, good quality belt is invariably a false economy. Helpfully, the quality of a belt is usually best indicated by its price. The lower the price, the lower its resilience and longevity, so it is always worth being suspicious and checking the original manufacturer's specifications very carefully as well as asking for documented evidence of compliance and performance.





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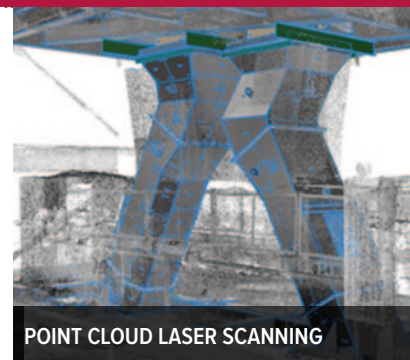
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## Resilience by design: the answer to stockyard dust control

The volume of dry bulk shipping continues to increase annually with 2024 levels surpassing 2023 by over 4%<sup>1</sup>. Leading the way was iron ore followed by coal<sup>2</sup>; arguably two of the dustiest commodities to deal with.

Conveyors, haulers, hoppers, and stockpiles seen in dry bulk storage and handling are well known contributors to industrial dust pollution. Windy port environments only exacerbate the issue. The consequence of uncontrolled dust is public health issues, disrupted operations, and material loss. Just to name a few.

Those in the industry are familiar with the use of wind fences for dust control. What many may not be familiar with is the innovation of grading fabric porosities and stress release systems that can make the difference between a mediocre solution and a high-performing, long-lasting one. This difference can equate to substantial savings in the long run to the tune of millions of dollars. It is no secret that a well-designed wind fence ends up paying for itself.

### RESILIENT FABRIC SOLUTIONS FOR BETTER DUST CONTROL

WeatherSolve Structures has been tackling dust control in bulk storage and handling for decades. Years of research and development, combined with the company's world-renowned expertise in porous fabric



structures, has led to a fine-tuned, practical application of polyethylene and polypropylene woven fabric in graded porosities on industrial wind fences. The result is both effective dust control and material cost efficiency.

The general principle is simple.

- ❖ The fabric that is highest on the wind fence structure is more porous so that it exerts less leverage on the poles. **This means cost savings on the poles.**

- ❖ The fabric that is lowest on the wind fence is more solid because that is where 90% of moving dust is located. **This means better dust control.**

Stockpile areas are often tens of hectares and a kilometre or two long. When it comes to these stockyards, the graded porosity approach is of particular importance. The more porous fabric higher up on the wind fence eases the transition zone between the incoming wind and the fence. This reduces downstream turbulence to reduce the amount of dust that is kicked up and eroded off stockpiles.

The results are undeniable. This solution has been proven time and again in harsh industrial and port settings around the globe.

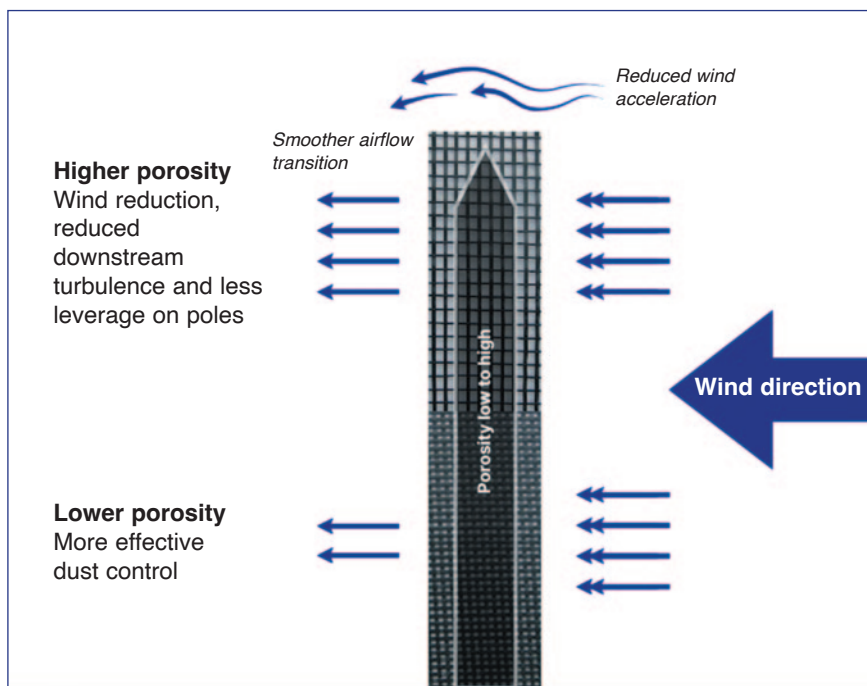
### WHY A STRESS RELEASE SYSTEM MAKES A DIFFERENCE

A substantial amount of dry bulk storage and handling occurs at ports where storms and wind related events are common occurrences costing tens of millions of dollars annually. For context, it is estimated that the port of Shanghai incurs costs upwards of \$50 million per year in wind related disruptions.

No one can control the weather; but you can certainly plan for it. When Mother Nature strikes with high winds or a hundred-year storm, wind speeds can reach up to 100–250km/h depending on the storm category<sup>3</sup>. During these extreme events, excessive loads are exerted on a wind fence and without a stress release system these fences may experience large amounts of panel failure, toppling, or complete catastrophic failure. You might be thinking, well just design the wind fence to be stronger than this. That's all fine and dandy, until you get the bill.

Unlike residential buildings which have lots of functional features like internal walls, wind fences are 90% structural. If you double the strength the cost won't increase by 10% as seen in residential applications, but will increase the cost by 50% or more! The key takeaway here is to ensure that:

- ❖ 1. Wind fence is designed to the correct wind speed by experts who know how to aerodynamically and structurally optimize wind fences to maximize benefits and minimize cost, and,



### How graded porosity works on a wind fence

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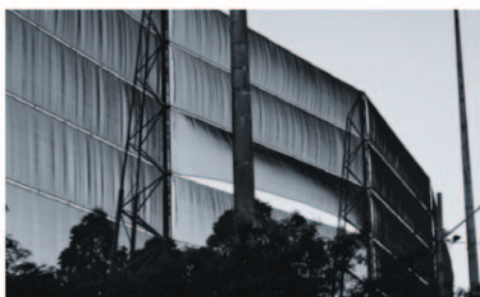


# WEATHERSOLVE STRUCTURES STRESS RELEASE CLIP SYSTEM



## NORMAL OPERATION

All clips in place. Shock loads absorbed by fabric, cable, and clips.



## UP TO 30% OVERLOAD

Upper clips remain in place to keep the panel secure while the bottom clips release to spill approximately 30% of the wind load.



## OVER 30% OVERLOAD

Upper clips remain in place to keep the panel secure while the hem cable and fabric sides in lockstrips release to spill additional wind load\*.

\*In an over 30% overload situation, some panels may require replacement.

- ❖ 2. Your wind fence has an overload or release system incorporated into the design to minimize the risk of fence failure should winds exceed the design speed.

**WeatherSolve Structures has the solution.** It has engineered and designed an innovative system that allows controlled release of wind loads during extreme events to protect the integrity of the support structure. Here's how it works:

- ❖ When the wind fence panel is overloaded by up to 30% (~20-year storm), the upper clips remain in place while the lower clips unzip to spill about 30% of the wind load
- ❖ When the wind fence panel is over 30% overloaded (~50-year storm), the upper clips remain in place to keep the panel secure and prevent it from blowing away. The fabric sides in the pole attachment and small hem cable release to spill additional wind load.

Once the storm has passed, the lower clips that released are easily replaced and the wind fence is up and running in a short time. In very extreme events, such as a 1 in 100-year storm, some panels may require replacement.

This release system has proven itself time and again on multiple continents. From *Hurricanes Andrew and Ian* to *Milton* and *Katrina*, WeatherSolve structures are still standing strong.

One real world example occurred in South America where a WeatherSolve wind fence was in the direct path of a one-hundred-year storm. (The fence is a mammoth structure with around 3,000 wind fence panels.) Following the storm, only 1% of the panels required replacement.

In keeping with WeatherSolve's commitment to quality and ongoing advancement the proprietary stress release clips are assessed after each major storm

that occurs on a WeatherSolve Structure. This allows for an individual assessment to confirm expected outcomes or presents an opportunity to tweak current designs to enhance performance.

### BUILT TO PERFORM

Wind and dust control cannot be left to chance. WeatherSolve's expertise, custom designs and patented stress release clip system have continued to set standards worldwide for carefully engineered cost-effective safety and reliability in all weathers. By combining science-driven design with proven performance in the world's harshest environments, these systems deliver both performance and long-term cost savings.

For operators faced with rising throughput and increasing environmental scrutiny, the message is clear: **resilience by design isn't just smart engineering, it's an advantage.**



## REMA TIP TOP acquires key assets of Almex Group, strengthening global position in conveyor technology



REMA TIP TOP has acquired significant assets and operations of the Canadian Almex Group. With the acquisition, the company expands its portfolio in the area of conveyor belt vulcanizing systems and thereby strengthens its position as the world's leading provider of integrated conveying solutions.

"The integration of Almex into the REMA TIP TOP family marks a major milestone. Together we combine technical excellence and innovation, top-class service standards, and customer focus to drive global growth. Our customers will benefit from expanded capacities and our worldwide service network," says Michael Übelacker, CEO of the REMA TIP TOP Group.

In the course of the acquisition, Almex

will maintain its brand identity, global manufacturing network, and experienced teams. As one of the worldwide foremost manufacturers of vulcanizing presses, Almex complements the REMA TIP TOP Group with additional technological strength and decades of expertise in the field. This acquisition targets to utilize Almex's expertise to expand REMA TIP TOP's product portfolio and to optimize efficiency in the supply chains.

Customers can expect a seamless transition and an even faster service from the acquired Almex entities. In Mexico, Brazil, and Africa, REMA TIP TOP and Almex Canada Ltd. will serve as channel partners.

With the integration in the REMA TIP TOP Group, Almex is granted access to expanded research and development

(R&D) capacities, international supply networks, as well as a larger global customer base. The expertise of both organizations is combined to develop next-generation solutions for conveyor system operators worldwide. Joint teams have already commenced integration planning, focusing clearly on business continuity and long-term customer value.

Founded in Parry Sound, Canada, in 1962, the Almex Group is today recognized as a leading provider of conveyor belt vulcanization and splicing systems, with installations in more than 120 countries. The company's production facilities will remain in Canada, China and Spain. Operational companies in the Netherlands, the United States, Australia, Indonesia, Chile, and Peru will also remain unchanged under REMA TIP TOP.

### ABOUT REMA TIP TOP

REMA TIP TOP is a globally operating system provider of services and products in the field of conveying and treatment technology as well as tyre repair. The company has a global service network and offers a wide range of rubber products, linings and coatings for both the industrial and automotive sectors. Over almost a hundred years, the company has built up unique expertise in materials development and industrial services and is active in the sectors REMA Conveying, REMA Surface Protection and REMA Motion. At the end of the 2024 financial year, REMA TIP TOP generated sales of about more than €1.5 billion. Worldwide the company employs 10,000 employees and has more than 200 subsidiaries and associated companies.





# Metso to provide advanced railcar handling solution to customer in Australia, enhancing safety and reliability

Metso has been awarded a significant order to replace a customer's ageing railcar dumper cells in the Pilbara region of Western Australia. The project marks a continuation of a long-standing partnership, with Metso serving the customer as its major supplier for car dumpers since 2002.

The scope of delivery includes design, supply, and technical support for installation and commissioning of the replacement units. The updated railcar dumper includes a new set of cells and the modernization of rotating components and advanced features.

The order value is approximately €16 million and it is booked in the Minerals segment's third quarter 2025 orders received.



## RELIABILITY, ROBUST DESIGN AND SUPERIOR PERFORMANCE

"We're very proud to continue supporting our valued customer's operations with advanced railcar handling solutions," says Stuart Sneyd, President, Asia Pacific, Metso. "For decades, the current dumper — provided by Metso — has demonstrated impressive reliability through robust design and exceptional durability. With this modernization, they will benefit from the latest advancements and expertise in railcar dumper technology, enjoying industry-best practices, even greater efficiency and superior performance for years to come."

## LATEST DESIGN STANDARDS AND ENHANCED MAINTAINABILITY

Strategically engineered to address key operational challenges at the customer site, the new dumper design emphasizes maintainability, reduced downtime through shorter shutdowns, dust and spillage control, and robust structural integrity. These operationally critical machines are designed to meet stringent demands, while ensuring optimal performance in demanding mining environments.

"The railcar dumper is a vital asset in the customer's mining operations, where both reliability and safety are non-negotiable for maintaining consistent throughput and minimizing operational risks. This latest design not only reinforces those core attributes but also introduces a strong focus on maintainability. By aligning with the latest design standards and developments, and emphasizing commonality across the customer's existing car dumper assets, it simplifies operations and ensures consistency in maintenance practices," says Sushanta Dutta, Vice President, Bulk Material Handling, Metso.

Metso's technical expertise and service capabilities will be essential in supporting the operational needs, ensuring smooth transitions and minimizing risk during critical shutdowns and ongoing activities.

Metso's largest service centre globally, located in Karratha, will play a growing role in providing spares, repairs, and long-term support programs tailored to the customer's needs.

## FULL LIFECYCLE SUPPORT IN BULK MATERIAL HANDLING

Backed by over a century of expertise and more than 8,000 bulk material handling installations — including 50+ car dumper installations — Metso stands at the forefront of the bulk material handling industry. Metso's offering includes railcar dumpers, apron feeders, belt feeders, conveyors, stackers, reclaimers, shiploaders and unloaders, and cable belt conveyors. Renowned by customers for its expertise in designing, supplying, and comprehensive servicing across the full lifecycle, Metso provides best-in-class solutions, purpose-built to address customers' evolving operational needs.

## ABOUT METSO

Metso is a frontrunner in sustainable technologies, end-to-end solutions and services for the aggregates, minerals processing and metals refining industries globally. It improves its customers' energy and water efficiency, increases their productivity, and reduces environmental risks with its product and service expertise. Metso is the partner for positive change.

Metso is headquartered in Espoo, Finland. At the end of 2024, Metso had close to 17,000 employees in around 50 countries, and sales in 2024 were about €4.9 billion.



## Elevating efficiency: the Fuchs Port Line unveiled

Fuchs has announced the launch of its new product line, the Fuchs Port Line. This new range brings together cutting-edge technology and decades of expertise in port handling under one clear name — while expanding the portfolio with three telescopic conveyors and three feeders.

With the Fuchs Port Line, the company responds to the growing demand for efficient, flexible, and robust solutions in port material handling.

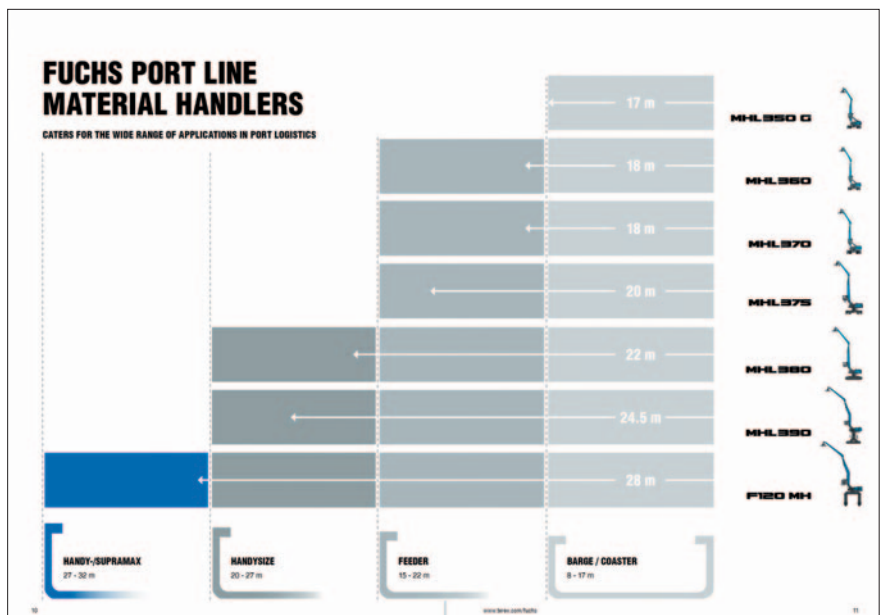
### FUCHS TELESCOPIC CONVEYORS — REDEFINING EFFICIENCY IN SHIPOADING

The new series of telescopic conveyors has been designed specifically to deliver maximum efficiency in shiploading. Thanks to their radial telescopic design, operators can load, trim, and change hatches from a single fixed feed-in point — without constantly repositioning the machine. This reduces machine movements, shortens loading times, and minimizes the risk of demurrage costs.

Standard features include hydraulic raise/lower functionality as well as a robust, mobile design that allows for rapid deployment at the quayside and space-saving storage when not in use. In addition to shiploading, the telescopic conveyors are also ideal for unloading and stockpiling within the port. Tailored customization for every application highlights the high level of versatility in the Fuchs conveyor range.

### FUCHS FEEDERS — CONSISTENT MATERIAL FLOW FOR MAXIMUM PRODUCTIVITY

The new feeders are engineered to



optimize material flow, reduce downtime, and increase productivity across a wide range of port applications. In combination with the telescopic conveyors, they deliver a continuous, highly efficient handling process — from material delivery to final loading.

“With the Fuchs Port Line, we are sending a clear signal of innovation and customer focus. Our new solutions help operators make port handling faster, safer, and more economical,” says Dominik Vierkotten, Vice President Material Handling & Lifting.

### MATERIAL HANDLERS

Fuchs has a wide range of material handlers that are powerful solutions for port

handling. Offering a variety of mobile, crawler and stationary undercarriage versions as well as various equipment combinations, attachments and quick coupling systems, Fuchs material handlers can be tailored for almost any application.

Fuchs’s handlers are customizable with various attachments and quick coupling systems for tailored applications.

Key attachments include dippersticks, banana booms, and hydraulic safety features. Advanced upper carriage features include a separated cooling system and high-performance hydraulics.

### ENGINE OPTIONS AND PERFORMANCE

Fuchs material handlers are equipped with advanced diesel and electric engines for





*Electric-driven  
material handler.*

optimal performance and efficiency.

Diesel engines meet EU Stage V and US Tier 4 emission standards, ensuring low fuel consumption.

Electric motors provide zero emissions, low maintenance, and reduced noise levels.

Diesel engine power ranges from 160kW to 300kW, while electric motors range from 132kW to 250kW.

#### UNDERCARRIAGE VARIANTS FOR DIVERSE APPLICATIONS

Fuchs offers various undercarriage options to meet different operational requirements in port logistics.

Available undercarriage types include mobile, crawler, rail-car, and stationary configurations.

Each undercarriage variant is designed to optimize performance based on specific application needs.

#### ADVANCED CABIN FEATURES FOR OPERATOR COMFORT

Fuchs material handlers feature ergonomically designed cabins to enhance operator comfort and visibility.

Cabins are vertically and horizontally adjustable, providing optimal viewing angles.

Equipped with automatic climate control and large skylights for improved working conditions.



#### COMPREHENSIVE SERVICE AND SUPPORT

Fuchs provides extensive service and support to ensure the reliability and efficiency of its material handlers.

Regular training for service specialists and comprehensive technical documentation is available.

Fast spare parts service are supplied through a global network of warehouses, ensuring quick access to necessary

components.

Professional customer support includes a hotline and online resources for urgent assistance.

#### INNOVATIVE ATTACHMENTS AND LOADING EQUIPMENT

Fuchs material handlers can be equipped with a variety of attachments to enhance functionality.

Attachments include cactus grabs, timber grapples, and clamshell grabs for versatile material handling.

Loading equipment options feature straight and banana booms, with lengths ranging from 13.10m to 24.5m.

#### TELECOMMUNICATION AND FEEDER VARIANTS

Fuchs offers specialized telecommunication and feeder systems for efficient material handling in ports.

Telecommunication systems provide up to 270° of radial movement and a working angle of up to 22°.

Feeder variants include high-level and low-level options, with production capacities of up to 1,500 tonnes per hour.

#### ELECTRIC-DRIVEN MATERIAL HANDLER

Electric drives are today's forward-looking trend. This is particularly the case with indoor applications, stationary machines and machines with rail undercarriage, in which powerful zero-emission electric drives have very tangible advantages. They include low operating and servicing costs and low noise emissions.

The extensive use of standard components from Fuchs' range of diesel driven models ensures that spare parts are widely available.

### UNDERCARRIAGE VARIANTS AVAILABLE FOR DIFFERENT APPLICATION REQUIREMENTS



Mobile  
MHL350 G



Crawler  
RHL350 G



Stationary  
AHL350 G



Mobile with Pylon  
MHL350 G (Pylon)



Crawler with Pylon  
RHL350 G (Pylon)



Stationary with Pylon  
AHL350 G (Pylon)



## Keeping stockyards moving: how industrial vibrators drive efficiency in dry bulk handling

A properly run stockyard, equipped with modern and efficient technology, is integral to the success of any dry bulk handling facility. Each year, many millions of tonnes of dry bulk material — minerals, cement, grains, fertilizers, wood pellets, and more — are stored, reclaimed, and shipped from these operations. The challenge is simple to describe but complex to solve: how do you keep that material flowing reliably?

Blocked hoppers, rat-holing in silos, and stubborn material hang-ups along stockyard walls are daily realities for operators. When material flow stops, everything downstream stops — trucks sit idle, ships wait at port, and lost hours quickly become lost revenue. A stockyard designed for efficiency can't afford this kind of downtime.

### THE PROBLEM: WHEN GRAVITY ISN'T ENOUGH

On paper, a hopper or bin should allow gravity to do the work. Material is loaded at the top and, when needed, discharged cleanly from the bottom. But bulk materials rarely co-operate.

Moisture can cause clumping. Fine powders can compact under their own weight. Fibrous materials like wood chips bridge across outlets. Even perfectly designed bins and hoppers develop buildup on walls and corners, gradually reducing flow until production grinds to a halt.

For a stockyard moving millions of tonnes a year, these interruptions add up fast. Clearing hang-ups manually is not only time-consuming but also dangerous. Workers entering bins or striking vessels with sledgehammers face serious risks.

That's why dry bulk operators turn to vibration and air power: proven tools that keep material moving safely and efficiently.



*Global Manufacturing's blue air cannons fixed to a bulk unloading hopper.*



*Global's Yellow Jacket piston vibrator doing work.*

### THE SOLUTION: VIBRATORS AND AIR BLASTERS

Industrial vibrators are one of the simplest, most cost-effective ways to restore and maintain material flow. Mounted to hoppers, chutes, or railcars, vibrators transmit energy into the vessel walls, breaking friction bonds and loosening material. When installed correctly, the vibrator itself appears nearly motionless — what moves is the bulk solid, shifting,

settling, and finally discharging as designed.

Different brackets accommodate different applications. Wedge brackets lock male and female parts together at matching angles, forming a rigid mount that allows vibration to pass directly through the structure. Clamp-on brackets, often built into the vibrator housing, let users quickly attach units to angle iron or railcar structures. The key is rigidity: the tighter the mount, the more efficiently vibration energy travels into the material.

Still, not all materials respond equally well to vibration alone. Lightweight or fibrous products such as wood chips often require an extra push. That's where air blasters step in. Positioned strategically on bin and silo walls, air blasters release powerful bursts of compressed air that dislodges stubborn build-up, sweep clean surfaces, and restore free flow. Together, vibrators and air blasters form a complementary system: vibrators provide constant agitation, while air blasters deliver targeted force when and where it's needed most.

### MAKING THE SYSTEM WORK: GLOBAL MANUFACTURING'S ROLE

At the centre of these solutions is Global Manufacturing, Inc., an American expert in industrial vibrators and air blasters. Global partners with distributors, OEMs, and end-users across the dry bulk industry, ensuring that stockyards, hoppers, and ship unloaders run smoothly year after year.

Global's products stand out for both performance and usability:

- ❖ **The Yellow Jacket™ (YJ) Piston Vibrator** revolutionizes railcar unloading and stockyard use. Weighing 55–68% less than traditional models, the YJ delivers equal or greater force — sometimes double. Its single-bolt





*A single Global Ball  
Vibrator on a chute.*



mounting design means operators can install it quickly and safely, without heavy equipment or risking back injuries from oversized units.

- ❖ **Design Series Vibrators** give customers choice. Pneumatic, hydraulic, and DC electric models are available, with adjustable weights and variable flow control that let operators fine-tune force and frequency for each unique material.
- ❖ **Air Blaster Systems** target stubborn materials that resist vibration alone. Global's blasters are engineered to handle high-demand environments, from shipboard salt environments to cement kilns, with options like coated aluminum pistons, stainless steel valve seats for extra protection, and epoxy coating for added exterior protection.
- ❖ **Process efficiency and longevity** remain a focus. Easy-to-install repair kits, minimal wear parts, and ready access to replacement components keep long-term ownership costs low — a crucial factor for stockyards operating on tight margins.

#### BEYOND EQUIPMENT: EDUCATION AND SUPPORT

Global doesn't stop at manufacturing



*Various global  
products ready to  
ship to customers.*

hardware. The company invests heavily in education — training distributors, OEMs, and operators on proper vibrator selection, placement, and maintenance. Application engineers work directly with facilities to design systems that maximize throughput while minimizing wear.

Tools like the Rotary Vibrator Calculator (available on Global's website) allow users to enter basic data and receive tailored single vibrator scenario recommendations instantly. For deeper insight, Global provides 'How-To' guides that explain scientific principles, mounting techniques, and maintenance best practices.

And because even the best equipment needs backup, Global offers the industry's

strongest warranty — a lifetime warranty — underscoring its confidence in product durability and commitment to customer satisfaction.

#### THE BIGGER PICTURE: STOCKYARDS WITHOUT BOTTLENECKS

When you zoom out, the value of industrial vibrators and air blasters becomes clear. A stockyard is only as strong as its weakest flow point.

Whether handling millions of tonnes of minerals for export, transferring aggregates to railcars, or reclaiming wood pellets for energy production, the smooth, uninterrupted flow of material is non-negotiable.

By ensuring that gravity is always assisted when needed, vibrators and air blasters transform stockyards from bottlenecks into throughput engines. They keep vessels filled, conveyors moving, and ships on schedule. In short, they turn the simple but elusive idea of 'material flow' into everyday reality.

And in this mission, Global Manufacturing, Inc. shows the way — with innovation, reliability, and a clear commitment to helping the dry bulk industry move forward, one tonne at a time.

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Global Viber Global  
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NOT HARDER**

● Complimentary application assistance ● Lifetime warranty

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W: www.globalmanufacturing.com



## Telestack launches the TCL 2031: the largest capacity track-mounted conveyor on the market

Telestack has launched the TCL 2031 track-mounted conveyor, a powerful new addition to its tracked conveyor line, and the largest track-mounted mobile conveyor on the market. Designed to meet the demands of high-capacity material handling with unmatched versatility and strength, the TCL 2031 is a heavy duty tracked stacking and link conveyor engineered to transform high throughput material handling on mobile sites.

The TCL 2031 has been devised after the many successful installations on the



*3D render of the TCL 2031 — the largest capacity track mounted conveyor on the market.*



*Five TCL 2031 conveyors working as a link conveyor with the HF 24T heavy duty hopper feeder in reclaiming / mining applications.*



*Two TCL 2031 conveyors working as a link conveyor onto a reclaiming line from a Primary Jaw crusher.*

existing TCL 1031 track-mounted stacker, which handles applications up to 1,000tph [tonnes per hour] (1,100 tons per hour) and 0–300mm (0–10 inch) Primary Jaw Crusher operations. This NEW TCL 2031 is targeted for higher capacity 1,500tph (1,650 tons per hour) up to 2,500tph (2,750 tons per hour) applications. This unit follows the Telestack long-lasting legacy of highly respected, state-of-the-art products which are continually pushing the boundaries to meet the demands of their extensive dealer network and global

customer base in a variety of industries.

Built to meet the rising demands of modern crushing and screening plants, the TCL 2031 delivers industry leading capacity while retaining the flexibility operators need on short-term projects, contract sites and large stockyards.

The TCL 2031 is designed for throughputs demanded from high-capacity crushers and auxiliary plants. In stacking applications, the unit can stack from 1,500tph (1,650 tons per hour) up to 2,500tph (2,750 tons per hour) with a maximum lump feed size

of up to 40 mm, typical from a high-capacity Primary Jaw crushing application. This tonnes per hour capacity translates to more material on the ground, meaning fewer wheel loader movements and double handling of the material during the operation. The TCL 2031 can achieve over 6,203 tonnes (3,877m<sup>3</sup>) of material in a single conical stockpile (5,070 yards/6,837 tons) and moved easily from position to position to meet the demands within the stocking area.

These performance figures translate

*A TCL 1031 Stockpiling after Primary Jaw Crusher.*







3D renders (and left) highlighting the TCL 2031 & HF 24T Reclaiming at 2,500tph.

into a lower cost per tonne, reduced fuel consumption and the ability to keep high-capacity plants running with a proven reliable stacking solution, eliminating the requirement of wheel loaders constantly moving/stacking material.

The unit is fully track mounted, enabling operators to reposition the conveyor quickly around the site for ease of mobility and relocation from 'site to site' when needed. Hydraulic folding head and tail sections collapse the machine for road transport to a folded length of 17.68m (58' 0") and a transport height of 4.38m (14' 5"), or alternatively it can be broken down into shipping containers for long haul moves if required. Typical on site setup is under 30 minutes, letting teams react faster

to changing site layouts and phasing during blasting/ relocating on site.

#### POWER AND MOBILITY

For site mobility via the track system, the unit uses an integrated diesel hydraulic engine with regional engine options from CAT (100kw — 130hp) or Deutz (86kw — 100hp) — Stage V (Regulated countries) and Stage III — CAT 96.4kw solutions for non-regulated countries, all to meet local emissions regulations.

Once the unit is in position, the unit is then driven via all-electric drive motors via an 'Electric Wrap Drive' in which 3 x phase power is plugged into the IP 66 Rated Control panel of the TCL 2031 during operation, ensuring maximum efficiency

using on site electrical power or auxiliary power from the existing Jaw Crusher. There are also options for a fully — all-electric system — Telestack 'Zero' range (no diesel engine) for certain sites where diesel hydraulic engines are not permitted.

The TCL 2031 brings high capacity with a robust 1,400mm belt, mining grade rollers/scrapers/bearings and tracked mobility together in a single package. This product is targeted to 'fill the gap' for large quarries, mining and aggregate operations using high-capacity crushers (mobile / semi-mobile and static) that need a mobile stacking solution to effectively handle their large 'crusher-run' type material at a high capacity while improving site flexibility and reducing operating costs.

# We Deliver Success Together

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Mobile Harbor Crane

Grab Ship Un-loader

Scraper Ship Un-loader

Pneumatic Ship Un-loader

Bucket Chain Ship Un-loader

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**GENMA** 



# GENMA SOLUTIONS



## MDG Handling Solutions high-capacity bucket elevators

Since 2017 MDG has been developing and manufacturing bucket elevators for lifting a wide range of bulk solid materials.

Thanks to its continuous research and development effort — and to the quality of its equipment, which has been fine tuned to ensure maximum reliability — MDG maintains a good position among the leading manufacturers of this sector.

This article discusses one of MDG bucket elevators — the ESPLV. These units are double-chain bucket elevators that form part of the most modern lines of heavy-duty elevators with the highest flow rate: 2,000m<sup>3</sup>/h and more.

One of the main features of the ESPLV is its the large-sized buckets with a capacity up to 290 litres each on the biggest elevators.

The chains are mechanical with pin and bush, and are also designed for very high breaking loads (up to 4,000kN).

Thanks to the continuous bucket system, this kind of MDG bucket elevator has great flexibility, allowing both slow as well as high speeds. They can be used when low speed is required (less than 0.7m/s), as in the case of lifting granular fertilizer material, or for lifting medium-sized materials (50–100mm). They are also popular when high speed is possible (>1.5m/s) in order to minimize the size — and therefore the cost — of the bucket elevator itself.

- ❖ When speeds lower than 0.8–0.9m/s are needed, the material unloading process — although external to the trajectory of the buckets — take place due to the combined effect of centrifugal and gravity forces, with the material flowing on the back of the preceding bucket, thanks to the continuous bucket system. Therefore, when the material is being unloaded, the back of each bucket acts as a 'slide' for that part of the material that is forced to follow a less effective expulsion trajectory due to insufficient centrifugal force. This allows for an

*Picture 1: ESPLV in Maryneal, Texas, USA.*



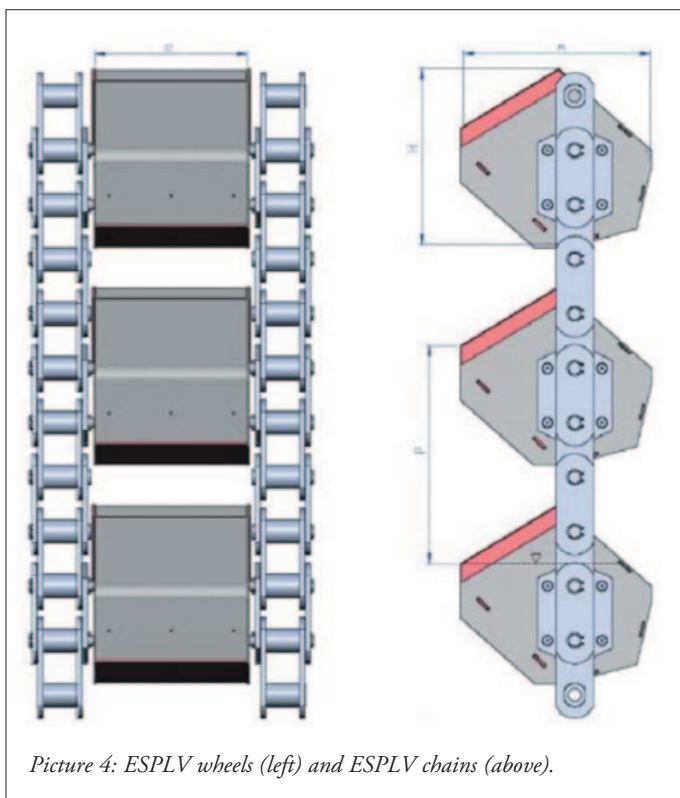
easy unloading process through the outlet chute.

When lifting granular fertilizer, low speed makes it possible to minimize the crushing of the granules and the level of powdering, which is necessary to guarantee a good product quality.

Low speed also allows the buckets to load (partly with dredging) and lift materials

*Left: pictures 2 & 3: MDG ESPLV head stations equipped with double drive.*





Picture 4: ESPLV wheels (left) and ESPLV chains (above).

with larger grain sizes, up to 80–120mm.

- ❖ When speeds exceeding 1m/s are allowed (the most frequent case) — usually up to 1.5–1.6m/s — it is possible to increase the highest material flow rate. In this case the material is usually discharged centrifugally.

A hydraulic tensioning system is frequently used for tensioning the chains, thus allowing high loads (if necessary) as well as easy and

uniform adjustment of the chains.

The larger MDG bucket elevators are equipped with double drive unit (see pictures 2 & 3).

#### CASE STUDY

In the cement industry, this type of MDG high-capacity bucket elevator is used to lift a wide range of bulk materials such as clinker, raw meal, raw mix, limestone, cement, coal, to name a few.

Recently MDG was awarded an order by DYPNF, South Korea, for the supply of a high-capacity bucket elevator, the length of which is 50.6m.

This MDG elevator conveys petroleum coke (100mm max) at a speed of 1.3m/s and, thanks to its two lateral bushed chains, which have a breaking load of 1,500kN each, represents the best MDG solutions to serve this purpose.

**"A man who stops advertising to save money is like a man who stops a clock to save time"**

**– Henry Ford**



## New Cat® MH3295 Material Handler delivers high production in port and large scrapyard applications

- ❖ 17.6m (57.7ft) reach
- ❖ Cat® Payload, 2D E-fence and swing assist technologies help deliver optimum production
- ❖ Premium Plus cab and fixed cab riser with 360° visibility and floor windows for operator comfort

Built to deliver a long reach required for barge loading/unloading and large scrapyard applications, the new Cat® MH3295 Material Handler will feature a dedicated swing pump for smooth, co-ordinated movement and a wide track undercarriage for optimum stability and performance.

Electrohydraulic controls plus advanced Caterpillar technologies help boost productivity on jobs that demand high performance.

“The new MH3295 Material Handler is based on the rugged and reliable Cat 395 Excavator platform, sharing common service parts, but features a purpose-built design for the demands of large scrapyard and port applications to offer consistent operation,” says Vincent Migeotte, senior global product consultant for Caterpillar. “Plus, standard technologies like Swing Assist, Cat Payload and 2D E-fence help operators to work more efficiently and safely. The new design of the MH3295 is about elevating jobsite performance and delivering long-lasting durability and value.”

### HIGH PERFORMANCE

The new material handler features an 17.6m (57.7ft) reach plus two counter-weight configurations to meet jobsite

MH3295 MATERIAL HANDLER SPECIFICATIONS	
Engine	Cat C18
Engine power — ISO 14396, kW (hp)	405 (543)
Short boom operating weight, kg (lb.)	100 700 (222,100)
Max. speed, km/h (mph)	4.5 (2.8)
Max. stick pin height, mm (ft)	18,040 (59.2)
Max. stick pin reach, mm (ft)	17,590 (57.7)
Max. stick pin depth, mm (ft)	7,060 (23.2)



conditions. Its wide, 4.8m (15.7ft) track gauge retracts to a 4.1m (13.5ft) width to simplify transport.

The wide operating track gauge combines with the undercarriage's 7.2m (23.6ft) track length to deliver smooth, stable operation at extended reach.

Its powerful, 405kW (543hp) Cat C18 engine meets US EPA Tier 4 Final and EU Stage V emission standards and offers reliable operation up to 3,000m (9,840ft) above sea level without derating. Operators can match machine performance to the job at hand using three power modes — Power, Smart and Eco — to help save fuel.

Giving operators control when needed, an advanced electrohydraulic system helps provide the optimum balance of power and efficiency.

SmartBoom™ technology allows the boom to freely travel up and down without using pump flow, enabling operators to focus on stick and attachment movements. A variety of Cat work tool attachments are available to meet a range of material and density types. Valve priority helps operators direct hydraulic pressure and flow where it is needed.

### INTEGRATED TECHNOLOGIES

Boosting operating efficiency, Cat Payload for the new MH3295 assists operators with achieving precise load targets, helping to eliminate overloading of over-the-road





trucks and enabling more accurate production tracking. Real-time weight estimates are displayed in-cab when picking up a material load without swinging.

Standard Swing Assist technology automatically stops upper machine rotation at preset points to help operators hit more repetitive swing targets, reduce fuel consumption and improve cycle times. Quickly established, the operator simply swings to a desired stopping point and sets the target using the in-cab monitor or a preset joystick button. When approaching the predefined limit, the machine automatically decelerates and does not allow the stick to travel beyond the set point.

Leveraging data wirelessly, VisionLink™ provides actionable insights for the new MH3295 Material Handler. It allows fleet managers to review equipment data from a desktop or mobile device to help maximize uptime and optimize assets. Dashboards provide machine operating details like hours, location, idle time and fuel utilization, so informed fleet decisions can be made to help lower costs.

Standard remote services technologies help the new material handler operate with maximum uptime and efficiency. Remote Troubleshoot allows the Cat Dealer to diagnose issues remotely without impacting machine performance, so they are resolved quickly with less machine downtime. Updating onboard software without requiring a technician to be present, Remote Flash enables the company to initiate software updates at a time convenient to the production schedule, increasing overall efficiency.

### PREMIUM CAB

The material handler's fixed cab riser



provides 360° visibility and includes floor windows to help improve visibility when loading material. The new Premium Plus cab design includes small pillars and large windows, plus rearview, left-side, and right-side-view cameras to enhance safety while operating. The rear cab door entry design features enclosed stairways and integrated lights to safely access the cab. Wide walkways provide quick, easy and safe access to upper service platform maintenance areas.

Inside the cab, a wide seat adjusts to accommodate operators of all sizes, while easy-to-reach controls are positioned in front of the operator for comfortable machine control. Accommodating operators of all skill levels, the easy-to-use high-resolution, 254mm (10-inch) touchscreen monitor presents the jobsite dashboard in an intuitive format.

Productivity applications are displayed on the monitor in grid view to easily read on the go, and touchscreen functionality is programmed to ensure continued job performance without any interruptions.

Standard cab avoidance assists with evading contact between the work tool attachment and cab, enhancing safety while operating and improving machine longevity. Automatic climate control provides comfortable operating temperatures throughout the shift, and storage compartments are located beneath and behind the seat, plus overhead and in the consoles to stow plenty of gear. Operators can connect personal devices using the standard radio's USB ports and Bluetooth® technology.

### ABOUT CATERPILLAR

With 2024 sales and revenues of \$64.8 billion, Caterpillar Inc. is the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. For 100 years, Caterpillar has been helping customers build a better, more sustainable world and are committed and contributing to a reduced-carbon future. The company's innovative products and services, backed by its global dealer network, provide exceptional value that helps customers succeed.

Caterpillar does business on every continent, principally operating through three primary segments — Construction Industries, Resource Industries and Energy & Transportation — and providing financing and related services through its Financial Products segment.





# GBS Group International: a global ecosystem of solutions for bulk handling in ports



In the port sector, where every minute of operation has a direct impact on competitiveness, bulk handling systems are the invisible backbone sustaining the efficiency of the entire logistics chain. From discharging a vessel to stockyard storage, and from there to production plants or outbound trucks, millions of tonnes of coal, clinker, fertilizers and grains depend on conveyors and their components performing with absolute reliability.

Yet the port environment is uniquely challenging: corrosive atmospheres, heavy loads, the pressure to minimize dust emissions, and an operational tempo that simply cannot stop. This is where GBS Group International makes a difference — not as another equipment supplier, but as a strategic partner that integrates a complete ecosystem of conveyor and bulk handling solutions.

## AN ECOSYSTEM UNITING INNOVATION, COMPONENTS AND SUPPORT

Port operators demand more than robust equipment: they require operational continuity, technological reliability and immediate response capability. GBS has built a model that extends far beyond conveyor supply. Its proposition is an integrated ecosystem, anchored in three pillars:

### 1. CONVEYORS ENGINEERED FOR PORTS

- ❖ Mobile and fixed conveyor systems

tailored for yards, quaysides and shiploaders.

- ❖ Modular configurations that scale according to cargo flows.
- ❖ Designs built to withstand abrasion, saline humidity and high throughput demands.

### 2. WORLD-CLASS COMPONENTS

- ❖ Sealed, heavy-duty rollers, designed to reduce friction and extend service life.
- ❖ Premium conveyor belts, resistant to heat, abrasion and chemicals.
- ❖ High-performance scrapers, minimizing carry-back and fugitive dust.
- ❖ Gearmotors and intelligent drives, delivering maximum energy efficiency.
- ❖ Transmission belts and couplings for heavy-duty environments.
- ❖ Industrial adhesives and bonding systems for fast, reliable splicing and repairs.

### 3. INTELLIGENT MONITORING TECHNOLOGY

- ❖ IoT sensors measuring temperature, vibration, moisture, alignment and load in real time.
- ❖ Artificial intelligence algorithms detecting wear patterns and predicting failures.
- ❖ Cloud-based dashboards accessible from any device, with early-warning alerts for operators.
- ❖ Proven reductions in unplanned downtime and optimized total cost

of ownership.

This ecosystem positions GBS as a global partner providing end-to-end solutions — from a single roller to a complete predictive monitoring platform for a port terminal.

## ADDRESSING THE KEY CHALLENGES OF PORTS

From Latin America to other emerging markets, GBS works with port operators reveals a familiar set of challenges:

- ❖ Reactive maintenance causing costly downtime.
- ❖ Premature component wear under harsh environmental conditions.
- ❖ High levels of carry-back and dust emissions, undermining safety and sustainability.
- ❖ Excessive energy consumption, impacting competitiveness.
- ❖ Fragmented supply chains, requiring multiple vendors for critical parts.

The GBS model addresses these issues with an integrated approach. By acting as a single partner delivering complete solutions, GBS simplifies procurement, shortens response times and ensures that every component functions as part of a coherent system.

## TECHNOLOGY THAT ANTICIPATES THE FUTURE

A cornerstone of GBS's ecosystem is the intelligent monitoring system for conveyor



belts, now being rolled out across port terminals.

By installing sensors along the conveyor line, the system captures real-time data on belt and component condition. Using artificial intelligence, that data is translated into clear predictions: when a roller will fail, when a belt will misalign, when humidity risks compromising the material.

The result is a paradigm shift — from reactive maintenance to predictive maintenance — cutting unplanned stoppages and the associated costs. Combined with high-efficiency motors and smart drives, the system also enables significant energy optimization, directly improving port profitability.

### COMPETING ON A GLOBAL STAGE

Competition in the port sector is intense, dominated by large multinational manufacturers. Yet GBS Group International differentiates itself with a hybrid model: combining the strength of a world-class component portfolio with the agility of a company that tailors solutions to each terminal's unique conditions.

- ❖ **Flexibility:** adapting designs and

components to the specific realities of each port.

- ❖ **Proximity:** providing local and remote technical support to reduce downtime.
- ❖ **Optimized total cost of ownership:** fewer stoppages, greater energy efficiency, longer equipment lifespan.
- ❖ **Sustainability:** technologies that reduce dust, emissions and resource consumption.

In an industry where competitiveness hinges on the reliability of every tonne moved, this approach makes GBS a partner of genuine strategic value.

### TOWARDS THE INTELLIGENT PORT

GBS's vision goes beyond today's challenges. GBS Group International is building a future where ports operate under augmented intelligence frameworks:

- ❖ Digital twins, simulating loads and forecasting wear.
- ❖ Augmented reality, enabling remote maintenance support and operator training.
- ❖ Big data and advanced analytics, identifying global patterns of energy


use and wear across multiple terminals.

Through these technologies, ports will not only optimize performance, but also become safer, more sustainable and better prepared for the demands of international trade.

### CONCLUSION: A STRATEGIC PARTNER FOR THE WORLD'S PORTS

In the port sector, where every minute counts and every tonne must move with precision, GBS Group International delivers a complete ecosystem of solutions that unites the best of three worlds: — technological innovation, world-class components and trusted support.

GBS's commitment is clear: to guarantee operational continuity and competitiveness for ports worldwide, reducing costs while maximizing the value of every operation.

In a world where ports are the beating heart of global trade, GBS Group International stands as a strategic global partner, transforming challenges into competitive advantages and leading the evolution towards more efficient, sustainable and intelligent bulk handling. 





# Getting a load of...

## ... modern bulk loading technologies



*700tph VIGAN shiploader  
operating in Kazakhstan.*

Louise Dodds-Ely

## A new era of opportunity and innovation

Agrobulk markets are evolving at an unprecedented pace. Driven by shifting food consumption patterns in growing populations and changing geopolitical dynamics, both importing and exporting

countries are rethinking their strategies. Brazil has emerged as the leading soybean meal (SBM) exporter in recent years, with production continuing to climb. Russia, too, has reshaped the global wheat trade,

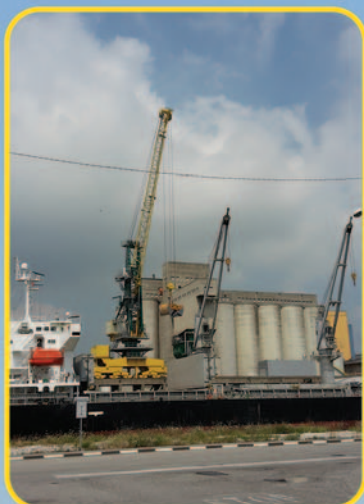
becoming the top exporter in 2023 with nearly 32 million tonnes — surpassing Australia, Canada, and the United States.

In Latin America, Argentina remains a key player, primarily exporting wheat and



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*1,500tph VIGAN loader  
installed in Constanta,  
Romania.*

SBM. However, its export volumes fluctuate significantly due to climatic variability and economic instability. With a landmass of 2.78 million square kilometres, Argentina's crop-growing regions span approximately 380,000 square kilometres — twelve times the size of Belgium. Yet, the country faces a persistent logistical mismatch: the main agricultural zones are not aligned with its strategic export hubs. This disconnect presents a compelling opportunity for innovation in agrobulk logistics.

Smaller-scale loading and unloading systems for barges navigating upstream rivers could be a game-changer. These barges would then transfer cargo to

agrobulk terminals or larger sea-going vessels, streamlining the supply chain. Argentina is not alone in facing these challenges. Brazil, Russia, and Ukraine are also exploring new logistics solutions to bridge the gap between production and export.

The issue is no longer just about placing loaders where they're needed — it's about developing integrated systems that ensure agricultural bulk commodities reach their final destinations efficiently and sustainably.

#### **VIGAN: ENGINEERING SOLUTIONS FOR A CHANGING MARKET**

As global agrobulk dynamics shift, companies like VIGAN is stepping up to

meet the moment. With over five decades of experience, VIGAN has built a reputation for delivering high-performance bulk handling equipment tailored to the evolving needs of the industry. Based in Nivelles, Belgium, and part of the VAN DE WIELE Group, VIGAN specializes in designing and manufacturing advanced equipment such as ship-unloaders, loaders, and mobile pneumatic conveyors.

VIGAN's systems are engineered for versatility, reliability, and efficiency. They handle a wide range of bulk commodities — from grains, cereals, and oilseeds to fertilizers and chemicals — making them indispensable across agricultural and industrial sectors. With more than 1,500 machines operating worldwide, VIGAN's presence in ports and terminals is a testament to its global reach and trusted performance.

What sets VIGAN apart is its commitment to innovation. The company invests heavily in research and development to enhance the efficiency, safety, and environmental sustainability of its equipment. Recent advancements include the use of high-durability alloys, smart electronics for reduced energy consumption and advanced automation, as well as ergonomic operator cabins that improve visibility and comfort. These innovations ensure that VIGAN remains at the forefront of bulk handling technology.

#### **TAILORED SOLUTIONS FOR COMPLEX CHALLENGES**

In today's agrobulk landscape, one-size-fits-all solutions are no longer viable. VIGAN



*700tph VIGAN shiploader  
in Kazakhstan.*





Handle bulk with  
efficiency and reliability

**Pneumatic and mechanical ship (un)loaders**

Up to 2500 tph for loaders and up to 1200 tph for unloaders.

**Low noise & no dust emission**

Turnkey solutions for cereals, soy flour, fertilizer, pellets and more...





understands this and works closely with clients to develop customized equipment that meets specific operational requirements. Whether it's adapting to unique site configurations, accommodating different vessel sizes, or integrating dust management systems, VIGAN's engineering team delivers solutions that are both practical and forward-thinking.

For example, VIGAN's shiploaders are renowned for their robust construction and advanced automation features. Capable of handling up to 2,000 tonnes per hour, these machines enable fast and cost-effective cargo operations. Features such as adjustable boom lengths and various specialized loading spouts ensure efficient, dust-free loading — critical for maintaining environmental standards and operational safety.

### NAVIGATING GLOBAL CHALLENGES

The global grain industry faces numerous challenges, including climate change, geopolitical tensions, and rising energy costs. VIGAN addresses these issues head-on by designing equipment that minimizes energy consumption and complies with stringent environmental regulations. Its systems are equipped with advanced filtration technologies to keep dust emissions below industry thresholds, and they are built for easy maintenance and quick serviceability.

The war in Ukraine has had a significant impact on grain logistics, disrupting traditional trade routes and market access. Yet, this disruption has also opened doors in neighbouring countries around the Black Sea. VIGAN has adapted its strategy to support these emerging markets, ensuring continuity in grain handling operations and reinforcing its presence in Eastern Europe.

*700tph VIGAN shiploader at Les Sables d'Olonne, France.*



### LOOKING AHEAD

As agrobulk markets continue to evolve, the need for flexible, efficient, and sustainable logistics solutions becomes increasingly urgent. Countries like Argentina, Brazil, Russia, and Ukraine are at the forefront of this transformation, and companies like VIGAN are providing the tools to make it possible.

By focusing on innovation, customi-

zation, and customer collaboration, VIGAN is not just responding to market changes — it's helping to shape the future of agrobulk logistics.

Whether it's through smaller-scale equipment for inland waterways or high-capacity systems for major ports, VIGAN's solutions are designed to meet the challenges of today and the opportunities of tomorrow.

*Loading grain with a VIGAN 700tph shiploader at Les Sables d'Olonne, France.*





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Create higher capacity stockpiles with reduced material segregation and optimized storage capacity on tight footprints at the terminal.



## **UNLOAD, TRANSFER & STACK**

Handle ship unloading, material transfers, and stockpiling, maximizing efficiency and reducing equipment needs at the docks.



## TAKRAF port facilities: global presence and proven longevity

### FRESH ACTIVITY IN CARGO HANDLING SECTOR SPARKS MAJOR PROJECT AWARD FOR TAKRAF GROUP

Following a relatively subdued period in the cargo handling sector, TAKRAF Group (TAKRAF) has this year experienced renewed demand from that industry, particularly for its bulk handling technologies. This momentum is reflected not only in a rise in enquiries but most notably in the recent award of a major contract from PT Freeport Indonesia (PTFI) for the supply of a TAKRAF Shiploader for its copper concentrate export facilities. The machine will form an integral part of PTFI's MOPH-2 project, which involves a substantial upgrade and expansion of existing processing operations.

Through this project, PTFI, a long-standing TAKRAF client, is playing a crucial role in supporting the global energy transition by ensuring future copper supply, a metal vital to worldwide electrification and sustainable infrastructure.

### FULLY INTEGRATED PORT FACILITIES

In line with its commitment to holistic solutions, the Group designs and delivers fully integrated port facilities and systems deployed worldwide. These include shore-to-ship handling facilities with advanced ship loaders, continuous material handling, storage and reclaiming systems, and



*TAKRAF Shiploader installed in Peru.*

ship-to-shore solutions utilizing grab-type unloaders.

### CUSTOM SHIPLOADING SOLUTIONS

As a specialist in high-capacity and complex bulk loading technologies, TAKRAF develops custom shiploaders tailored to specific applications and operating conditions.

At a South African port, for example, a 3,500tph (tonnes per hour) multi-purpose loader incorporates winch-operated luffing, a shuttle and three interchangeable discharge chutes for different commodities. Its enclosed stockyard conveyor automatically opens in alignment with the loader's movements along the quay.

In the CIS region, a 3,500tph shiploader was delivered, fully assembled for a large export terminal. Engineered to withstand extreme temperatures from  $-42^{\circ}\text{C}$  to  $+39^{\circ}\text{C}$ , and capable of handling Panamax-class vessels.

Other notable projects include a 6,000tph rail-mounted shiploader at a limestone export facility in Mexico, and a 12,000tph unit installed at Nouadhibou Port in Mauritania for Société Nationale Industrielle et Minière (SNIM), supporting the expansion of its iron ore stockyard and loading terminal.

Many of TAKRAF's operating installations date back decades, testifying to the proven robustness and long service life of its shiploaders and unloaders.



*12,000tph TAKRAF Shiploader in Nouadhibou, Mauretania for iron ore.*



1,700tph TAKRAF Grab-Type Ship Unloader mounted on rails.



### TAKRAF TECHNOLOGIES

TAKRAF is committed to delivering cost-effective maritime cargo-handling solutions that prioritize sustainability, energy efficiency and safety. Its equipment is designed to reduce energy consumption, dust emissions and noise, while improving operational efficiency and reliability in line with global demands for environmentally responsible technologies.

At the same time, advances in material handling and growing safety requirements are accelerating the shift toward automation and smart features such as material distribution visualization within vessel holds, collision-avoidance systems and predictive maintenance tools. Recognizing that each client's needs and preferences differ, TAKRAF offers solutions

with varying levels of automation.

For example, TAKRAF's Shiploaders, which are available in fixed or rail-mounted designs, are assisted by a variety of systems, including the automatic shutdown of a specific loading sequence or the automatic tracking of the telescopic slide on the fill level within the vessel's hatch.

TAKRAF can also equip machines with a remote control facility that enables the operator to operate the machine directly from the hatches of the vessel so that they are able to manoeuvre into hatch corners and ensure complete loading of all material.

TAKRAF Shiploaders are particularly suited to applications requiring medium to high flow rates and continuous vessel loading and are tailored to specific site

conditions and materials, with fixed units often employed for environmentally sensitive commodities due to their fully enclosed feed routes.

TAKRAF Grab-Type Ship-Unloaders serve both sea and inland ports, handling a wide range of bulk commodities across different particle sizes and vessel types. When fitted with hooks or spreaders, they can also handle general cargo or containers.

Together, these technologies reflect TAKRAF's long-standing commitment to robust, efficient and sustainable solutions that meet the evolving needs of the maritime cargo-handling industry, today and into the future.

*Innovation out of tradition — it pays to talk to a specialist.*

## The best bulk truck loader in the world



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- + Safe and easy to operate
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The Dino is the world's best bulk truck loader for loading powders efficiently using a screw conveyor. For more info visit [www.dino.nl](http://www.dino.nl)



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## Telestack TB 58 shiploader delivers high throughput for IHI in Japan



Onahama Higashi Port Bulk Terminal LLC (OHBT) led by IHI Corporation, a prominent Japanese engineering company, has recently commissioned a Telestack TB 58 radial telescopic shiploader to support its port operations for loading thermal coal. Supplied in collaboration with local dealer JCE, the installation provides a high-

capacity, environmentally conscious solution for loading self-discharging vessels.

The Telestack system was selected to replace traditional grab crane methods, offering a more energy-efficient and dust-controlled alternative. With a peak loading rate of up to 2,000tph (tonnes per hour), the TB 58 ensures rapid vessel turnaround

while maintaining strict environmental standards.

The TB 58 has delivered a change in operational efficiency for OHBT and IHI. By eliminating the need for grab cranes, the system has significantly reduced energy consumption and improved environmental performance. The integrated dust containment features have helped to minimize emissions, ensuring compliance with local regulations and improving working conditions on site. The wheeled mobility of the shiploader allows for quick deployment to the ships in-built hopper from a position behind the berthing line, reducing downtime and increasing loading safety and efficiency. The result is a reliable, high-throughput solution that supports IHI's commitment to sustainable and efficient port operations.

### RESULTS

- ❖ High-capacity loading of thermal coal at up to 2,000tph.
- ❖ Reduced energy costs and environmental impact.
- ❖ Enhanced dust control through integrated containment systems.
- ❖ Flexible, mobile solution for efficient deployment and loading.







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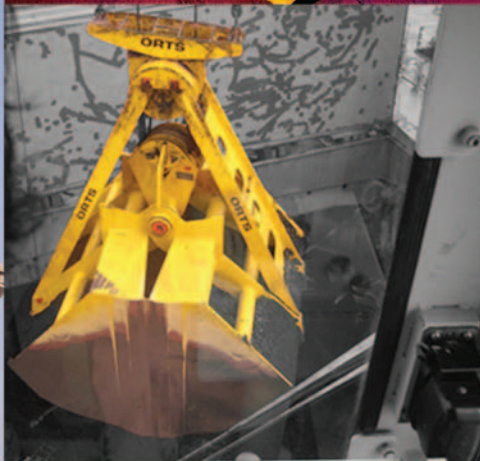




# ORTS Grabs

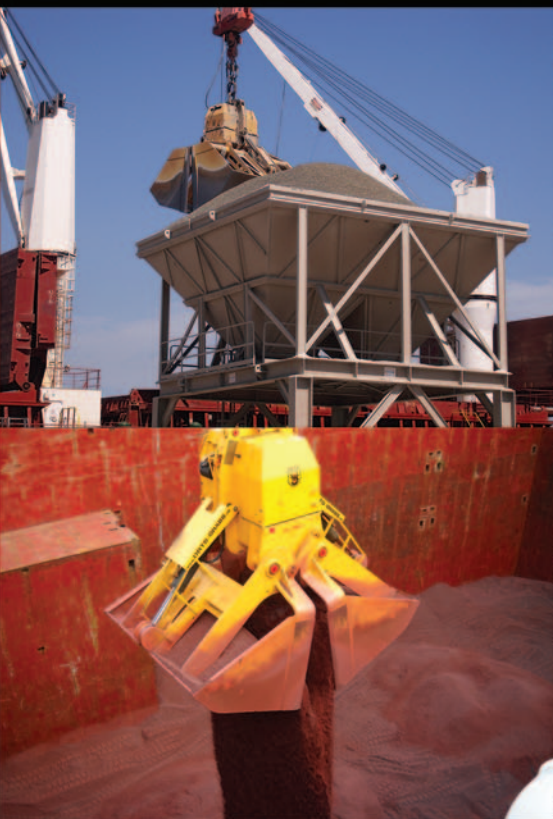


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**ORTS** Grabs 



## Milestone for QUARRY MINING: development of a 300tph shiploader



QUARRY MINING LLC designs and manufactures bulk handling equipment in the United Arab Emirates, but in compliance with European standards while adhering to the same safety standards and features that are expected from European equipment.

Quarry Mining LLC (QM) is certified for quality management with ISO Certificate 9001:2008 and for environmental management with ISO Certificate 14001:2004 from the German Technical Inspection Association TÜV Rhineland/Germany. These certifications include the continuous integration of all upgrades. Located in the United Arab Emirates, QM can supply high-quality plants and

equipment at very competitive prices.

Being in the business for 50 years and having experience in bulk handling industry for more than 20 years, Quarry Mining has recently reached a new milestone in its history of designing, manufacturing, installing and commissioning of bulk handling equipment by delivering a 3,000tph (tonnes per hour) shiploader for aggregates. Meeting the latest environmental standards, and offering highly efficient operation and the lowest energy consumption, the machine supplied is not only a success for Quarry Mining but also a game changer for the end-user.

With a total own weight of more than 650 tonnes, it's a massive build machine.

The shiploader moves along the berth on rails, pulling the tripper car with the feed conveyor. The loading boom can be lifted up and down and the loader can swivel including the loading equipment to reach every corner of the bulk carrier ship.

At the end of the loading boom a cascade chute is installed, allowing the material to be loaded with nearly no degradation during the filling process. Especially for high quality products, such as steel grades, degradation is a major quality aspect for materials processed with bulk handling systems. The speed and method of transferring the material between various items of equipment and loading steps are key to ensuring the quality of the product



— and ultimately the price which can be achieved. More important are the environmental aspects of reducing dust development to nearly zero by using dedusting system for transfer points, encapsulation and clever implementation of natural physical effects.

The unit is supplied by a massive double cable reel to provide power and communication from the shore to the moving machine. The latest state-of-the-art PLC system will ensure single-person operation and a nearly fully automated loading process. Once the loader is brought into position, the cascade chute is lowered, and the loading process is started. The cascade chute works automatically by moving up based on the actual filling level.

Storing the position of various hatches allows the automated system to position the shiploader with just two tips and continue the loading. CCTV system always shows all important points of the loading process to the operator and loading facility manager.

Enabling the client to handle and load 3,000tph has reduced the berthing time dramatically, compared to grab loading operations. But the shiploader can only deliver what it receives from the feeding system. Therefore, a highly efficient and always-available feeding system is required. As stock capacities are very expensive, the material loaded is brought in just in time. A four dipping point truck-unloading system supplied by Quarry Mining ensures continuous supply of material directly from the truck to the shiploader. Only a small amount of material is stored in so-called buffer silos to compensate for short term material shortage. The system automatically determines the amount of material coming from the truck unloading system and will add material from the silos to the feeding belt via vibration feeders to ensure feed continues to the shiploader, ultimately keeping the loading time as short as possible.

All over, the shiploader supplied by QM successfully demonstrates that the latest technologies are enabling end-users to improve efficiency, environmental aspects and commercial aspects at the same time. Bulk handling is not just moving bulk cargoes from left to right, there is so much more to be considered. Only with thoughtful engineering — from the beginning to the end — combined with experience, constant thinking and rethinking all aspects of such a machine, is it possible to ensure success. Having the end-user always on board adds real value and makes Quarry Mining projects successful.




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# New Van Beek Dino bulk truck loader model delivered within eight weeks

With delivery of the new DR300 S-line available within eight weeks, Van Beek now offers a fast solution for loading onto bulk trucks. The standard configuration of this type of bulk truck loader enables delivery within eight weeks. Where other models of the bulk truck loaders have a delivery time of 12 to 20 weeks, the DR300 S-line can be loading the contents of big bags on site within eight weeks.

## PART OF THE CONSTRUCTION KIT IN STOCK

Due to the high demand for bulk truck loaders, Van Beek always carries the required standard parts for the DR300 S-line in stock. As a result, this specific model can be delivered at short notice. Sales engineer Roel Kneepkens, also known as Mr Bulk Truck Loader, explains: "The DR300 S-line is equipped with the most commonly used and popular options, viewed from a market perspective. For example, the manual loading bellows, the hydraulic cylinder to raise the machine easily, the compressor (for the air seal, etc.) and the levelling position on the unit so it's stable."



## OPTIONS INCLUDED IN THE STANDARD VERSION

The standard version is available with five additional options for the customer to choose from. These options range from an extension rim on the inlet tray (to increase the inlet volume), a lid that fits the big bag chute (to reduce dust) and aeration pads on the inside of the hopper (to improve product flow), to pneumatic hammers on the outside (for easier inflow into the screw) and a modified motor transmission (to apply more power to the screw, so that products with a greater bulk density can be transported).

## ADDITIONAL OPTIONS

Due to its modular design, customers can add more options to the bulk truck loader. However, it will then be necessary to take into account an increased lead time of between 16 to 20 weeks. For example, a customer may choose a magnet installed in the outlet, or an integrated dust filter unit for dust extraction. Using a shoveller to load instead of a big bag is also an option. If desired, customers may choose initially to order an S-line, then add additional options at a later time.

## LOADING MORE THAN 30 BIG BAGS IN ONE HOUR

In around 60 minutes, the S-line can fill a bulk truck with approximately 30 to 35 big bags. This amounts to processing between 30 and 40 cubes per hour.





## Efficient bulk cargo containerization by SmartTEH

SmartTEH designs and builds automated container loading and unloading solutions for businesses across industries such as wood processing, metalworking, construction, manufacturing, and more. Its product range includes horizontal and vertical container loading equipment, as well as mobile conveyor systems.

These machines help companies speed up cargo handling, improve safety, and cut costs by reducing manual labour and eliminating the need for extra equipment.

### SMARTTEH EQUIPMENT FOR BULK CARGO HANDLING

#### CONTAINER TILTER

The Container Tilter is a bulk cargo loading and unloading system that tilts containers from  $-5^{\circ}$  to  $90^{\circ}$ , giving access to 100% of the cargo space. Operated by just one person, it helps free up valuable yard space while making container handling faster, safer, and more cost-efficient.

Built to withstand loads of up to 30,000kg, the tilter also comes with an integrated scale for precise load control. It is compatible with both 20-foot and 40-foot containers.

Here's how it works:

1. A truck with a container backs up to the tilter and the trailer pins are released.
2. The tilter locks onto the container's corner castings and lifts it off the trailer.
3. The container doors are opened, and the container is raised to a vertical position.
4. The operator sets the tilt angle, and the bulk cargo is loaded from the top.
5. Once full, the container is lowered back onto the truck and detached from the tilter.

#### CONTAINER TILTER UNLOADER

This Container Tilter is made for quick and easy 20-foot and 40-foot container unloading by tilting them from  $5^{\circ}$  to  $45^{\circ}$ .

The machine helps empty containers in a matter of minutes and is operated by a single person. It helps transfer bulk cargo straight into storage facilities without any additional equipment or manual labour.

The tilter withstands loads of up to 28,000kg and can complete up to four unloading cycles per hour.

#### CONTAINER LOADING SYSTEM

Designed for bulk cargo stored in big bags or other packaging, the Container Loading System loads and unloads containers in just five minutes.

Its sliding loading plate moves cargo in and out of containers with ease, cutting down on manual labour and reducing the reliance on forklifts.

The system handles loads of up to 30,000kg and is compatible with 20-foot, 40-foot, and 45-foot containers.

SmartTEH can seamlessly adapt every container loading system to each client's unique needs and infrastructure.

### WHAT CAN COMPANIES LOAD WITH SMARTTEH?

SmartTEH's cargo loading solutions are built to handle a wide variety of bulk materials, including:

- ❖ **minerals** (limestone, bentonite, silica sand, and other dry bulk materials);



*Container loading system.*



*Container Tilter at a metal scrapyard.*



*Container Tilter lifting a container off a truck.*



*Container Tilter lifting a container.*



- ❖ **renewable fuels and biomass** (wood pellets, sawdust, wood chips, and other renewable biofuels);
- ❖ **recyclables** (shredded plastics, scrap metals, paper pulp, etc.);
- ❖ **grains and cereals** (wheat, corn, barley, oats, and other agricultural produce);
- ❖ **chemicals and pharmaceuticals** (powders, granules, and resins); and
- ❖ **fertilizers** (granular and powdered fertilizers that need careful handling).

#### ADVANTAGES OF MOVING BULK CARGO IN CONTAINERS

- ❖ **Versatility:** containers can transport various dry bulk goods in different volumes and packaging.
- ❖ **Efficiency:** fixed dimensions (20ft and 40ft) make containers easy to handle across ships, trucks, and trains, speeding up logistics.
- ❖ **Cargo protection:** containers protect bulk cargo from contamination, moisture, and damage, while also reducing spillage during loading and unloading.
- ❖ **Lower logistics costs:** fewer transfers and less manual intervention reduce handling and storage expenses.
- ❖ **Compact storage:** stackable containers optimize warehouse and yard space.
- ❖ **International reach:** global container standards ensure smooth cross-border movement and multimodal compatibility.

#### MAIN ADVANTAGES OF HANDLING BULK CARGO WITH SMARTTEH

- ❖ **Rapid operations:** automated loading and unloading drastically cuts turnaround time and minimizes idle equipment.
- ❖ **Lower costs:** less manual labour and lower reliance on auxiliary machinery cut expenses and deliver a faster return on investment.
- ❖ **Enhanced workplace safety.** automation protects staff and reduces the risk of spillage or container damage.
- ❖ **Better space utilization:** precision systems make sure every container is filled to capacity.
- ❖ **Sustainable process:** efficient use of energy and equipment lowers emissions and environmental impact.

#### CUSTOMERS

SmartTEH systems are in operation in more than 30 countries worldwide, with a steadily growing customer base.

The company works with clients across various industries that rely on frequent container loading and unloading, including: wood processing; metalworking; construction; manufacturing; recycling; agriculture; and more.

SmartTEH equipment is also widely used in large-scale warehouses and logistics centres.

Industry titans such as ABB, Tata Steel, Binderholz, Stora Enso, EuroChem, and Lotte Chemical trust SmartTEH to make their cargo handling faster, safer, and smarter.

#### FUTURE OUTLOOK

The future of logistics is automated — and SmartTEH's innovative container loading solutions are helping businesses stay competitive in an increasingly demanding global marketplace.

Container loading and unloading is often one of the most time-consuming and challenging steps in the logistics chain. By automating these processes, SmartTEH helps companies save time, cut costs, and enhance their cargo handling operations.

*Container Tilter raising a container at a scrapyard.*



*Container Unloader being raised.*

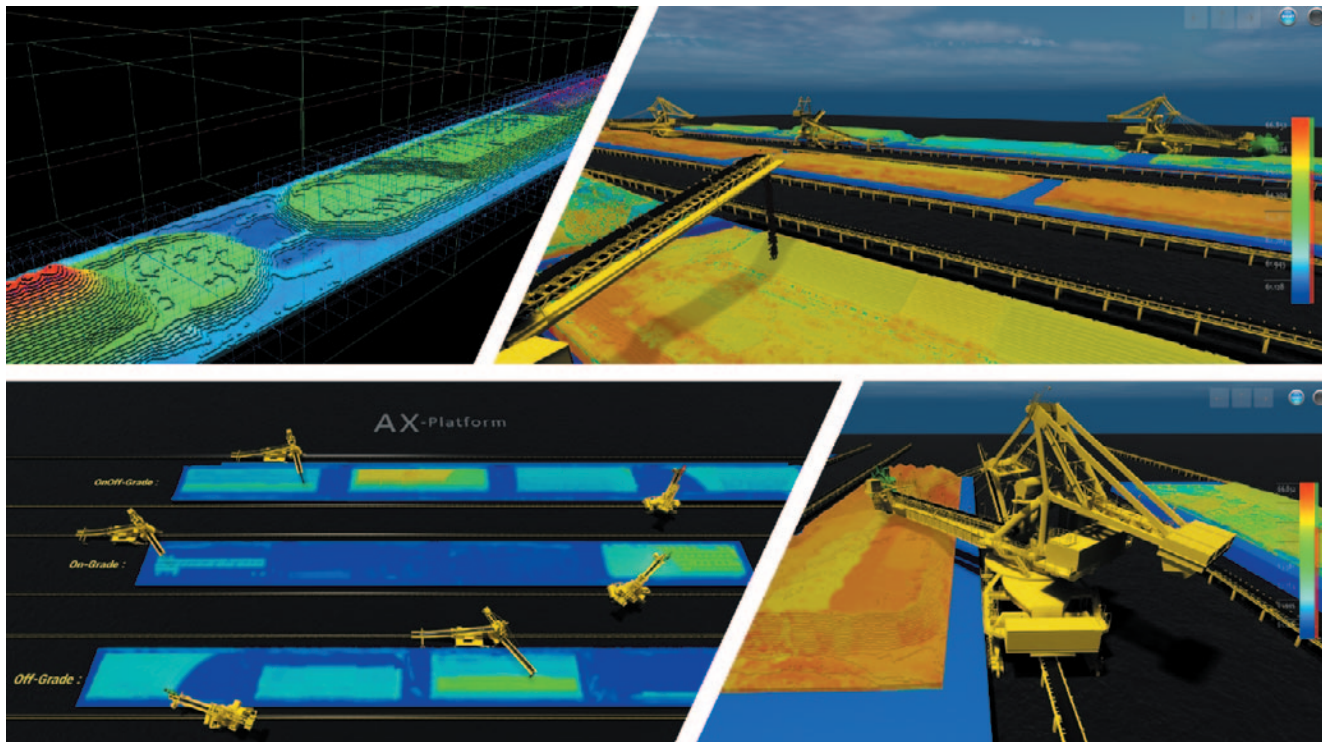


*Container Unloader.*





# Precision grade control and port loadout optimization with the iStockyardAX Platform



## INTRODUCTION

Operational efficiency, safety, and sustainability are critical in bulk-material handling ports. By adopting optimization strategies and off-the-shelf Industry 4.0 technologies, ports can operate more safely, productively, and sustainably.

At the forefront is indurad, a Hexagon company, whose cyber-secure, industrial-grade RADAR technology is transforming real-time measurement, tracking, and management of bulk materials across the value chain.

In busy semi- or fully autonomous ports, precision planning is essential. Eeden Energy's AX Platform revolutionizes loadout operations by integrating digital twins, spatial databases, and advanced analytics for unmatched control over material grades, inventory, and blending.

This editorial explores how combining indurad with Eeden Energy's platform as iStockyardAX, transforms traditional ports into intelligent, autonomous operations that boost efficiency, reduce risk, and ensure product quality.

## DIGITAL TWIN AND SPATIAL DATABASE

At the heart of the AX Platform lies a voxel-based spatial database that model stockpiles in 3D (cubes) with timestamped quality and inventory data related to each cube. Unlike traditional moving average systems, AX provides granular control over material flow using real-time RADAR to

provide static and dynamic volumetric data, enabling real-time visualization, planning, and reconciliation. Each voxel (250mm x 250mm x 50mm) stores chemical and physical material attributes, allowing operators to track material origins, age, and quality-distribution, with surgical precision.

## STRATEGIC IMPORTANCE OF GRADE CONTROL

Grade control is the cornerstone of quality assurance in bulk material handling. It ensures that delivered materials meet customer specifications, optimizes resource utilization, and supports sustainable operations. AX's real-time grade control capabilities empower port operators to make proactive decisions, reduce waste like off-spec cargo, and enhance profitability.

## KEY BENEFITS OF ACCURATE GRADE CONTROL

- ❖ **Penalty avoidance:** AX enables precise blending to meet customer specs, avoiding costly penalties and rejected shipments.
- ❖ **Utilization of over-grade material:** high-grade material can be used more strategically to accurately down blend lower-grade stock, maximizing resource value.
- ❖ **Dilution control:** real-time 3D models help avoid reclaiming from contaminated zones, minimizing dilution.
- ❖ **Improved reconciliation:** live

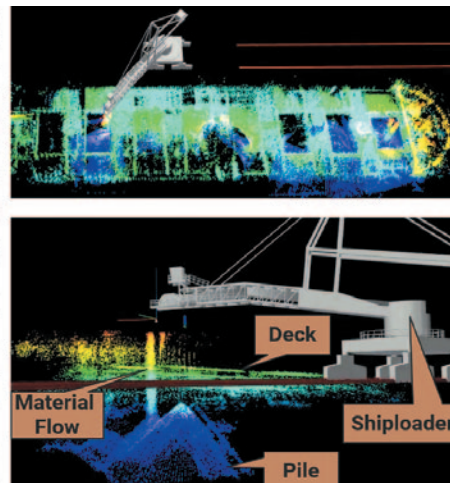
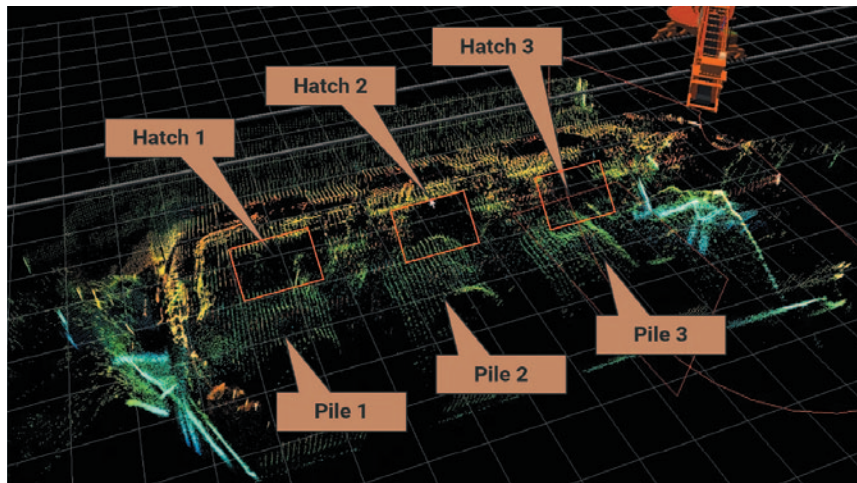
analytics track quality movement, enabling continuous reconciliation and operational adjustments.

- ❖ **Optimized blending:** simulation tools allow planners to test blend scenarios, reducing trial-and-error and improving consistency.
- ❖ **Reduced waste and rework:** autonomous control instructions ensure accurate execution, minimizing off-spec dispatches.
- ❖ **Enhanced resource utilization:** accurate identification of high-grade zones improves recovery rates and lowers costs.
- ❖ **Real-time decision support:** integration with smart sensors provides near real-time quality data for proactive decision-making.
- ❖ **Sustainable operations:** grade



*Real Time Ship Load Grade Management: simulate, plan and execute.*





control supports long-term planning and environmental goals by minimizing waste.

### PLANNING, SIMULATION, AND AUTONOMOUS EXECUTION

AX's Planning Toolbox includes statistical box plots, solver functions, and simulation GUIs that allow planners to model reclaim scenarios, forecast loadout quality, and generate autonomous work instructions. For ship and train loading and unloading, or continuous plant feeds via overland conveyors, planners can visualize prospective blend outcomes up to 144 hours in advance, adjust reclaim rates, and ensure adherence to quality targets as stipulated in supply contracts.

### VISUALIZATION AND REPORTING

AX combines intuitive 2D and 3D visualizations of stockpile inventory, quality distribution, and machine status. MS Power BI dashboards offer real-time and historical insights into inventory movement, quality trends, and plan adherence. These tools enhance transparency, support

retrospective incident investigations, and drive continuous improvement.

### AUTONOMOUS CONTROL AND SYSTEM INTEGRATION

Indurad's iStockyardAX integrates seamlessly with most Automation Systems to safely execute stockpile reclaiming, maintain shiploading and unloading schedules, while operating autonomously. Work instructions are sent directly to the machines, ensuring precise execution of loading and reducing human error. The iStockyardAX systems monitors machine status, alarms, and performance metrics, providing a robust framework for operational integrity.

### AUTONOMOUS CONTROL AND SAFETY INTEGRATION

Indurad's RADAR based collision avoidance systems are widely used in Mines & Ports, providing protections, while simultaneously providing accurate material levels and pile profiles in the hold during loading and unloading, no matter the atmospheric conditions.

### SHIPLOADING OPTIMIZATION

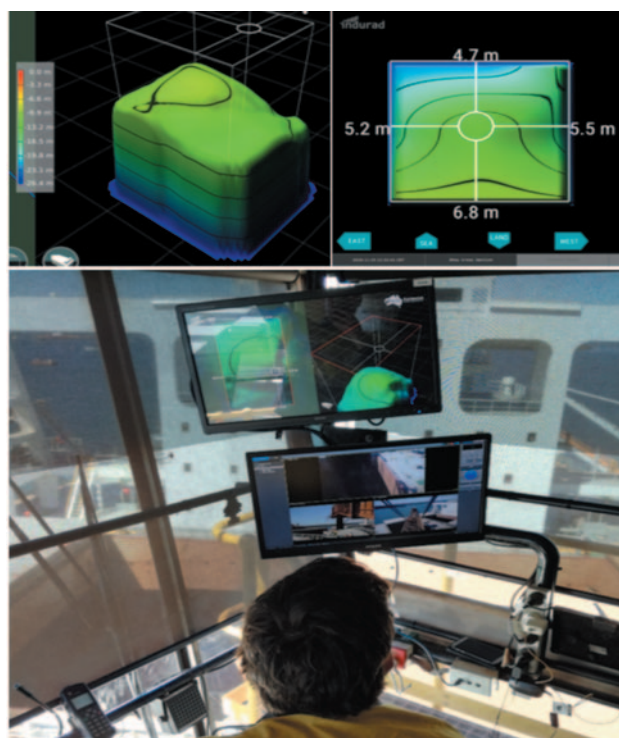
indurad Provides 3D Hatch scanning, helping port operators with loading or unloading duties. indurad's industrial RADAR systems 'penetrate' dust suppression systems while loading or unloading, where eyesight, cameras and laser-based scanning systems fail.

### CONCLUSION

Indurad's RADAR technology combined with Eeden Energy's AX platform redefines port loadout operations by delivering real-time grade control, intelligent planning, and a path to autonomous execution. With its voxel-based spatial database, advanced analytics, and seamless integration, iStockyardAX empowers both plant and port operators to optimize material blending, ensure product quality, and drive operational excellence.

Whether avoiding penalties, utilizing over-grade material, or enhancing sustainability, iStockyardAX is the strategic solution suite for modernizing bulk material handling operations.

DCi





# Biomass handling technologies

serving a greener future as fossil fuel usage falls



*Stormajor® receiving materials from trucks direct to clients' existing conveyors.*

## SAMSON Materials Handling (AUMUND Group): advances in biomass handling

Biomass fuels are becoming an increasingly important part of the energy mix, but handling them is not as straightforward as coal or ores. Biomass tends to be lighter, bulkier, and more variable in moisture. It can clog or bridge during feeding, and it produces dust that raises both environmental and fire safety concerns. For ports, terminals, and power plants, these challenges make reliable handling systems essential.

SAMSON Materials Handling Ltd, part of the AUMUND Group, has been focusing on these issues for many years. The company's equipment is designed to give operators flexible solutions that reduce the need for heavy civil works while still delivering continuous, industrial-scale performance.

This balance of mobility and reliability reflects how the industry is adapting to a material that behaves very differently from

traditional bulk commodities.

### MOBILITY AND DESIGN SOLUTIONS

At the centre of this approach is the Stormajor®, a mobile loading system developed to handle a wide range of bulk materials, including more cohesive and less flowing types often found in biomass and other organic products. Unlike fixed reception pits that require major excavation, the Stormajor is a surface-mounted system combining a Samson® material feeder with a radial and luffing boom conveyor. It can be configured on wheels or tracks and positioned wherever reception or loading is needed.

The Stormajor is well suited to handling materials that are difficult to flow, such as wet biomass, wood chips, and agricultural residues. Its wide apron-belt feeder and steep-sided entry section encourage smooth material movement while

preventing bridging. The boom conveyor can be fitted with a telescopic chute, allowing accurate loading into ships, barges, rail wagons, or stockpiles while keeping dust to a minimum. This flexibility makes it an effective link between mobile reception and onward transport, especially at sites that need to process variable feedstocks or operate in changing layouts.

### INTEGRATED HANDLING AND STORAGE

The AUMUND Group expanded its scope in 2025 with the addition of ESI Eurosilos, a specialist in silo technology. Silo storage is often important for biomass because it provides controlled conditions and reliable reclaim, even for materials with variable density or moisture. By linking mobile surface feeders from SAMSON with large-scale silos from Eurosilos, the group can now supply a complete handling and storage chain. This integrated approach





Negrini company, established in 1967, specializes in engineering and manufacturing a comprehensive range of grabs and buckets for rope machines and crawler mounted cranes; they are employed to do many jobs. Negrini buckets and grabs are very well-known for quality as well as for the very accurate and skilful engineering work; in fact Negrini supports their clients by analyzing the job to be done and, if needed, by adjusting the standard design of grabs and buckets to enhance their performance once in operation.

VIA TORRICELLI 4 - CASTELFRANCO E. (MO) - ITALY





helps reduce the risks and costs that sometimes arise when equipment from multiple suppliers has to be fitted together.

Recent projects highlight how these solutions are used in practice. In Brazil, SAMSON feeders were supplied to ComBio Energia for a biomass power plant. The feeders were designed for continuous operation and were able to handle different types of local biomass. Choosing mobile feeders instead of permanent pit systems gave the client reliable reception, less reliance on civil works, and the ability to adjust operations as the fuel supply changed. Projects like this underline the global relevance of mobile feeders, especially in regions where plants are developed in stages or where remote sites make civil construction difficult and costly.

### APPLICATIONS AND LESSONS FOR ENGINEERS

The range of clients using SAMSON equipment is broad. Biomass-to-energy developers, pulp and paper mills generating power from their own residues, and terminal operators exporting pellets or chips are all common users. What connects them is the need for systems that receive, feed, and discharge difficult

materials without excessive maintenance or downtime. For existing plants, surface feeders provide a way to upgrade handling capacity without digging new pits or building large conveyor tunnels. For new plants, they allow quick installation and the option to expand capacity step by step as demand increases.

Experience from these projects points to several lessons that engineers can apply when planning biomass facilities. It is important to test feedstocks early, because moisture and particle size can have a major impact on how equipment should be designed. Access for maintenance should be a priority, as surface feeders allow easier inspection and servicing than underground systems. Dust and fire protection should be designed in from the start, through enclosed transfers and careful control of drop heights. Finally, flexibility should be seen as an investment: the ability to relocate or reconfigure equipment often saves time and cost in the long term.

As biomass continues to grow as a fuel for both energy and trade, the systems that handle it will be a key factor in its success. The developments by SAMSON and the wider AUMUND Group show how mobility, reliability, and integrated design

can meet the specific demands of this material. For operators, that means equipment that is not only capable of moving bulk material efficiently, but also flexible enough to keep pace with the changing needs of the biomass sector.

### ABOUT SAMSON

SAMSON Materials Handling Ltd, based in Ely, UK, is a key member of the AUMUND Group, specializing in mobile bulk material handling solutions. With over 50 years of experience, SAMSON designs and manufactures flexible, high-performance equipment for ports, terminals, power plants, and industrial applications.

As part of the AUMUND Group, a global leader in conveying and storage technology, SAMSON benefits from an extensive worldwide network. The group includes AUMUND Fördertechnik GmbH, SCHADE Lagertechnik GmbH, TILEMANN GmbH Chains & Components, AUMUND Group Field Service GmbH, and AUMUND Logistic GmbH. Operating across 20 locations in Asia, Europe, North and South America, and supported by five strategic warehouses, the AUMUND Group delivers innovative and reliable solutions for bulk material handling worldwide.



## Biomass handling: reliable equipment solutions for a low-carbon future

Biomass has become a driving force in the shift toward renewable energy. From wood pellets and agricultural residues to dedicated energy crops, it offers a sustainable alternative to fossil fuels. Yet these materials — often variable, abrasive, and flammable — pose distinct challenges. Moisture content, particle size, dust generation, and flow behaviour all require precise control to maintain efficiency, safety, and reliability.

For almost 60 years, WAMGROUP has set the standard in bulk solids handling equipment. Drawing on experience across diverse industries, the company provides a complete range of equipment for the specific demands of biomass business. Its integrated approach ensures efficient, cost-effective operations — from receiving and conveying to feeding, storage, and dust management.



*Drag chain conveyor for wood waste.*





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### EFFICIENT MECHANICAL CONVEYING

Because biomass materials vary in shape and density, robust, versatile conveying systems are essential. WAMGROUP's screw conveyors and feeders handle a wide spectrum of particle sizes and moisture levels, ensuring consistent material flow with minimum energy use. Built in carbon or stainless-steel and suitable for horizontal, inclined, or vertical transport, they adapt easily to plant layouts.

For long distances or complex routes, chain conveyors deliver high capacity within a fully enclosed design that protects material quality and prevents dust emissions — ideal for fine wood chips or pellets. Where a compact, low-maintenance option is needed, tubular screw conveyors provide a reliable enclosed solution.

### RELIABLE STORAGE AND CONTROLLED DISCHARGE

Safe, efficient storage is the backbone of biomass processing. WAMGROUP's silos — available in multiple diameters and capacities — handle the wide bulk-density range typical of biomass. Advanced discharge technologies such as bin activators, live bin bottoms and rotary valves help prevent bridging and rat-holing, common issues with fibrous or moist materials.

Processes requiring precise feeding,



WAM pellet mixer.

including boiler firing or pelletizing, benefit from metering feeders that deliver an accurate, steady flow, boosting process efficiency and protecting downstream equipment.

### DUST FILTRATION AND SAFETY

Dust is an unavoidable by-product of biomass handling, creating environmental and safety risks. WAMGROUP offers an extensive dust filtration range, including WAMAIR® Spot Dust Collectors and WAMFLO® Silo Venting Filters, which maintain clean air and meet stringent emissions standards. High-efficiency filter media capture fine particles, while automated pulse-jet cleaning reduces operator intervention. For applications

with combustible dust, ATEX-certified options provide essential explosion protection.

### COMPLETE SYSTEM INTEGRATION

WAMGROUP excels at delivering equipment that integrates seamlessly within any plant. A typical installation may combine screw conveyors for reception, chain conveyors for transfer to storage silos, precision feeders for metered discharge, and dust collectors for air quality control.

With manufacturing sites, subsidiaries, and service centres across Europe, the Americas, and Asia, WAMGROUP ensures responsive after-sales support and rapid spare-parts availability — critical for minimizing downtime in continuous operations.

### POWERING THE TRANSITION

As global demand for renewable energy grows, efficient handling and storage are key to unlocking biomass's potential. WAMGROUP's proven equipment portfolio — combining mechanical strength, advanced dust management, and precision feeding — offers operators confidence in safe, reliable, and environmentally responsible equipment solutions.

Whether processing wood pellets, agricultural residue, or energy crops, WAMGROUP helps power the low-carbon transition, one biomass particle at a time.

### ABOUT WAMGROUP

Headquartered in Ponte Motta, Italy, WAMGROUP is a world expert in the design and manufacture of equipment for bulk solids handling and processing. With a strong commitment to innovation and sustainability, the company serves industries ranging from construction and food to energy and environmental technology.





# EFFICIENT OFFSHORE ROCK SHIPLOADING



FIND OUT MORE



Telestack was commissioned by DEME Group, a leading marine engineering and offshore energy company, to design, build, and install a material handling system. This included 2 x AP 1500 D3 wheel-mounted apron feeders and 2 x TB 52 (170ft) radial telescopic shiploaders. The system is used to load **10-60 (500mm - 20") offshore rock material** onto a Flexible Fall Pipe Vessel (FFPV). Its radial and telescopic design allows precise placement of material, reducing the need for excavator work onboard and increasing overall loading efficiency and tonnage rate.



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## Rethinking biomass and waste handling: Dos Santos International shows the way

As the world shifts towards renewable energy and sustainable waste management, industries face a growing challenge: how to store, handle, and transport biomass and municipal waste efficiently, safely, and with minimal environmental impact. Dos Santos International (DSI) has been at the forefront of solving these challenges with its Sandwich Belt high angle conveyors. An innovation that combines engineering precision with environmental stewardship.

### A CONVEYOR SYSTEM THAT ADAPTS TO THE ENVIRONMENT

Sandwich Belt high angle conveyors are more than just conveyors. They're versatile solutions capable of elevating or lowering materials at angles up to 90°. The secret lies in the 'sandwich' principle: sandwiching materials between two belts with a gentle, yet firm hugging pressure, ensuring smooth, continuous flow without spillage, dust, or degradation.

For biomass, such as wood chips, refuse-derived fuel (RDF), or pulp mill residues, this design preserves material integrity while allowing high-capacity transport in compact spaces. But Sandwich Belt high angle conveyors aren't just for biomass. Their design makes them ideal for handling municipal sludge, composting materials, and even household garbage destined for energy recovery.

### TURNING WASTE INTO VALUE

Municipal sludge management and composting highlight Sandwich Belt conveyors' unique capabilities. In Cape May County, New Jersey, Sandwich Belt conveyors elevated dewatered sludge and sawdust mixtures into in-vessel composting

reactors. The result was nutrient-rich, odorless, pathogen-free compost used by golf courses, nurseries, and for roadside restoration projects.

Similarly, facilities in Guelph, Ontario, and Binghamton, New York, used Sandwich Belt conveyors to efficiently process city sludge in compact, high-capacity systems.

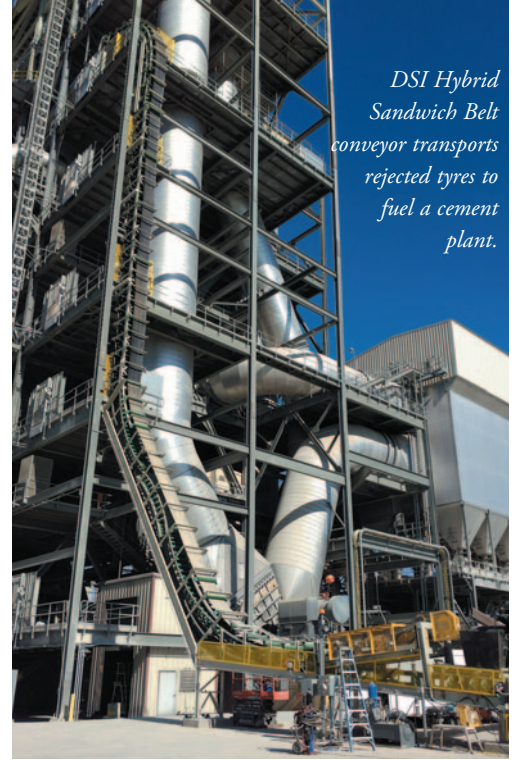
Meanwhile, waste-to-energy initiatives are transforming how we view garbage. At Palm Beach Resources in Florida, Sandwich Belt conveyors replaced cumbersome, maintenance-intensive pocket belt systems, reliably feeding RDF to boilers for electricity production. The conveyors' smooth surface belts simplify cleaning and reduce downtime, turning what was once a disposal problem into a sustainable power solution.

### EFFICIENCY MEETS ENVIRONMENTAL RESPONSIBILITY

DSI Sandwich Belt conveyors don't just move materials, they optimize operations. By conforming to the natural landscape, eliminating unnecessary transfer points, and reducing truck haulage, they minimize emissions, noise, and land disruption. Compact layouts conserve space, while regenerative systems even capture energy from downhill material transport.

From composting municipal sludge to conveying biomass for fuel, and from transporting shredded tires for alternative energy to RDF handling, Sandwich Belt high angle conveyors provide a reliable and

*DSI Hybrid Sandwich Belt conveyor transports rejected tyres to fuel a cement plant.*



environmentally conscious solution for modern material handling challenges.

### THE FUTURE OF BIOMASS AND WASTE HANDLING

As industries seek sustainable methods for biomass and municipal waste management, DSI's Sandwich Belt conveyor technology proves that innovation and environmental responsibility can go hand in hand. By combining high-capacity performance, minimal environmental footprint, and versatility across a range of materials, these conveyors are setting the standard for the future of waste and biomass handling.

Whether you're managing municipal sludge, creating compost, or producing renewable energy from waste, Dos Santos International offers a proven solution that transforms operational challenges into opportunities for sustainability.

### ABOUT DOS SANTOS INTERNATIONAL

Dos Santos International is a global expert on sandwich belt high angle conveyors. The company was founded and is currently led by the inventor of the system, Joseph Dos Santos. DSI is known for its extensive worldwide experience in sales, engineering, and construction of bulk materials handling systems and equipment. This has included major contributions that have expanded the range of bulk handling and transport solutions. Most notably advances in sandwich belt high angle conveyors have led to their worldwide utilization. The expertise of DSI spans a wide range of materials handling systems and equipment including high angle conveyors, high powered, high capacity, high lift slope conveyors and long overland conveyors utilizing the very latest technology.



*Two pocket belt systems were replaced by Sandwich Belt conveyors to turn waste into a sustainable power solution."*

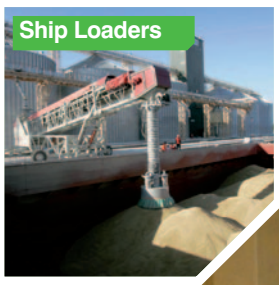


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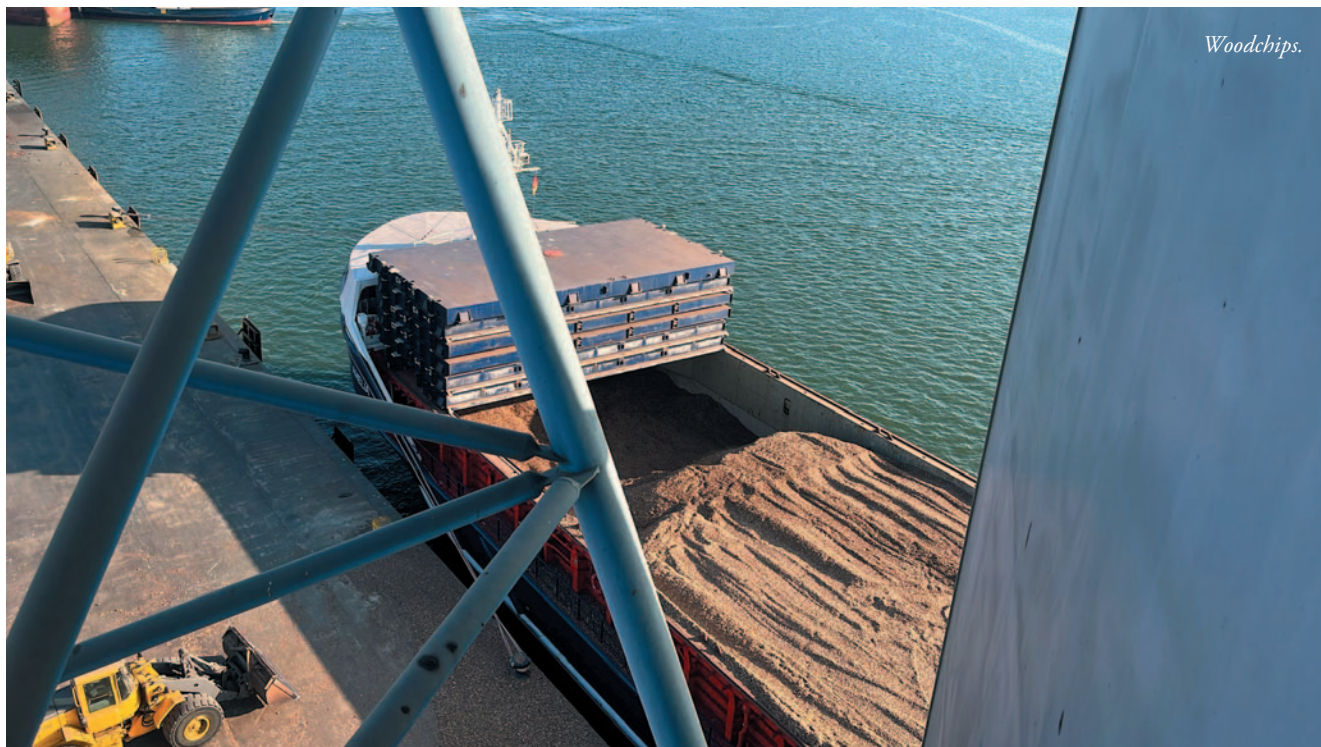
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## Biomass handling and storage: Ership Grupo's experience and ongoing commitment



*Woodchips.*

Ership Grupo has built a long-standing track record in biomass logistics. The company was among the pioneers in Spain when, during the second half of the 2000s, large-scale exports of biomass began to flow from southern Spain to northern Europe. Wet olive cake quickly became the leading product, with annual volumes reaching up to 300,000 tonnes destined for the United Kingdom, the Netherlands, Germany, and Poland. These trades, carried out mainly on coasters of around 5,000dwt, were complemented by other by-products such as dried olive stones, grape kernels,

olive tree prunings, and almond shells.

From the outset, operators had to preserve the calorific value of these commodities. This meant minimizing moisture increases during storage and handling, while also addressing the inherent risk of spontaneous combustion, which at times created critical incidents. At the same time, what had once been considered an agricultural waste with negative value soon became a commodity. Supported by EU subsidies in its early years, the biomass trade evolved rapidly: within a few seasons producers shifted from being paid to

dispose of residues to earning significant returns for them.

As technology for biomass burners improved, Spanish utilities-built power plants close to production areas, such as those in Jaén for olive residues. This development reduced the need for exports, as domestic demand absorbed a significant share of the available supply. By then, the market had been consolidated by companies with long experience in coal trading, which successfully applied their commercial and logistical know-how to biomass, creating stable supply chains and forward contracts.

Today, however, the picture is different. Biomass remains a core part of Ership Grupo's portfolio, with wood-based cargoes dominating current volumes. In recent years the company has moved substantial amounts of biomass through its ports, with the majority consisting of wood chips and logs. These flows clearly demonstrate that, although olive-based products were historically important, wood-derived biomass now forms the backbone of Ership Grupo's activity in this sector.

Each cargo type presents its own operational challenges. Woodchips, due to their low density, must be compacted in the vessel's holds with specialized machinery to achieve efficient stowage and reduce freight costs. Logs, while denser, require material handlers with log clamps instead of



*Dried olive stones.*





Logs.

conventional cranes to ensure safe handling. Both chips and logs, like other biomass products, carry a risk of self-combustion, especially when stored for long periods or when delivered too dry or too wet, making fire prevention and monitoring essential.

Ership Grupo also continues to diversify by handling niche biomass streams. Past

operations have included almond shells, while recent trials have explored the pelletization of orange and tomato residues. These by-products are primarily directed toward animal feed, but they also demonstrate innovative ways of closing the green cycle by valorizing agricultural waste.

Across all its activities, Ership Grupo prioritizes efficiency and sustainability. Open-air stockpiles must be carefully monitored, covered warehouses kept impeccably clean and dry, and handling equipment maintained at modern standards to reduce emissions and noise. The company consistently works to minimize the overall carbon footprint of its logistics chains, supporting the environmental goals of its clients.

With nearly two decades of experience in biomass logistics, and more than 140 years as a trusted shipping and logistics company, Ership Grupo combines historical know-how with modern practices. The company has developed a deep understanding of how to balance economic, technical, and environmental requirements in a sector that is rapidly evolving. As global demand for sustainable fuels grows at an unprecedented pace, Ership Grupo is ready to support its clients with safe, efficient, and environmentally responsible logistics solutions. More than just a service provider, Ership Grupo is a partner that brings reliability, innovation, and sustainability to every biomass project it undertakes.

## Journey to the Centre of Biomass Storage

### THE EXPEDITION BEGINS

In the classic tale, *Journey to the Centre of the Earth* by Jules Verne, explorers embark on a fantastical subterranean journey. Their expedition takes them through hostile and unpredictable environments where they face unknown hazards and new terrain. As you may remember, this is an adventure fraught with challenges. This is much like tackling dust in the biomass industry.

Biomass is considered by many to be the energy treasure marked with an 'X' on the map, but the journey to sustainable fuel resources is not without its share of hidden perils and obstacles to overcome. Handling and storage of biomass is just one of many obstacles, and having the proper gear for this expedition is critical for success.

The necessary expedition gear is a

custom wind fence that helps protect biomass operations from the hazards of dust and wind.

### THE TERRAIN OF BIOMASS

The organic nature of biomass means that it behaves differently than other materials such as coal or silica. This presents a unique set of challenges particularly when it comes to dust control during handling, storage and processing.

Biomass particles tend to be low density, irregularly shaped, and have a greater surface area to mass ratio. Having an irregular shape means these particles are more easily lifted by the wind. Having low density means they tend to stay airborne longer. Particle shape, size, and density all matter when it comes to

aerodynamic behaviour.

Think of it like this. You have a round, smooth bowling ball and you have a piece of paper. Which one is more likely to blow away first? You guessed it, the piece of paper. In our case, the 'paper' is biomass particles.

During handling, processing, and storage, significant amounts of biomass dust are generated and lead to combustible dust hazards, public safety issues, and operational disruptions. You'll need a little planning and the proper expedition gear to overcome the hostile dust filled air and unpredictable wind to keep the journey on course.

### THE EXPEDITION GEAR

A custom wind fence, such as those





engineered and designed by the experts at WeatherSolve Structures, are the mainstay of the biomass explorer's expedition gear. By taming turbulent airflow, controlling dust, and shielding stockpiles from wind erosion, these structures transform inhospitable site conditions into manageable ones that support regulatory compliance and smooth operations.

Wind fences are an erected porous structure that create a calmed area (sheltered zone) on the windward side of the fence. Their placement relative to the direction of the prevailing wind influences the location of the sheltered zone while fence height contributes to the size of the calmed area. The porosity of the fence (openness of the material) controls how much air can pass through and equalizes the pressure on either side of the fence to reduce turbulence and unstable airflow.

Since biomass dust is low density and irregularly shaped, it tends to settle more slowly than its mineral counterparts. It therefore makes sense that the main advantage of slowing the wind with a custom wind fence is to stop the lightweight dust from becoming airborne in the first place. Upwind fences are of particular benefit.

Upwind fences are placed relatively perpendicular to incoming prevailing winds and create a calm area, or sheltered zone, behind the fence where wind speeds are typically under 50–70%. The distance the calmed area reached beyond the fence minimizes the pickup of particles which contribute to dust generation and risk of combustible dust events.

Wind isn't the sole contributor to biomass dust challenges. Handling,

processing, and transport also generate substantial amounts of dust. This is where you may also need a catch fence as part of your expedition gear.

A catch fence, also referred to as a downwind fence, physically captures dust particles and prevents them from blowing off site. A well-designed catch fence will capture the majority of dust; around 70% or so. A small portion will pass through the fence and about half of that will settle in the calmed area just past the fence. The rest blows away. This type of fence is perfect for stopping biomass dust that is kicked up not only by wind, but by everyday operations.

Not all expedition gear is created equally. When planning your journey, it is important to select high quality gear from a trusted name with proven experience navigating the toughest environments. In the world of biomass, that name is WeatherSolve.

### THE EXPEDITION

This expedition happened a while back. You'll understand why that is important at the end.

As though right out of the Jules Verne story, a group of biomass 'explorers' were faced with a perilous environment. Wood dust generated by processing, haulers, and loading/unloading in the chip-handling area was migrating off site and causing all sorts of mayhem. Operations were located in an area with poor soil composition consisting of underlying sand and silt deposits to a depth of around 3m. The soil type increased the risk of seismic liquefaction (soil losing stability and being fluid-like). A row of trees that had provided some downwind protection to prevent dust transport had been recently removed.

Finding the right gear to help stay on course was a priority.

WeatherSolve was called upon to provide innovative custom gear so the explorers could tackle the challenge and continue on their journey.

The custom gear was in the form of a wind fence engineered and designed with a length of 1,400ft and varying heights up to 48ft. The fence panels were constructed from UV and tear resistant fabric with varying aerodynamic porosities. To enhance dust control, the fence was designed and installed with double catchment system.

Erected in 2006, the fence not only prevented the spread of dust to the surrounding area but significantly decreased the amount of onsite dust as well. The structure was of such quality that panels only required replacing at almost 20 years post installation. To this day, it continues to reduce dust and protect the surrounding area. Quality gear makes all the difference.

### PLANNING THE NEXT SUSTAINABLE EXPEDITION

No expedition can succeed without the right equipment. The explorers in *Journey to the Centre of the Earth* relied on preparation and sturdy gear to overcome their subterranean challenges. In the same way, the biomass industry can effectively navigate the hazards of dust and wind with a well-designed custom wind fence. Without a proper dust management strategy in place, you may find yourself as Jules Verne describes in *Journey to the Centre of the Earth*: "I was all adrift amongst a thousand contradictory hypotheses, but I could not lay hold of one."



# Crank that dial

## Bulk handling drives, systems & controls



*The new Hägglunds Thunder is a fully electric, frequency-controlled drive solution with the proven advantages of Hägglunds drive technology.  
(Image source: Bosch Rexroth AG.)*

Jay Venter

## Hägglunds storms into new territory with a permanent magnet torque motor: Hägglunds Thunder

**G**earless drive solutions from Hägglunds are renowned for their high torque and utter reliability, but also for their flexibility. With the introduction of Hägglunds Thunder, even the route to those advantages is flexible. Based on permanent magnet (PM) synchronous motor technology, Hägglunds Thunder is an electrifying solution from the most trusted supplier of industrial direct drives.

### ENABLING A FULLY ELECTRIC HÄGGLUNDS DIRECT DRIVE

A PM synchronous torque motor is a type of multi-pole electric motor, capable of delivering high torque that fits well alongside that of existing Hägglunds motors. By enabling a fully electric, frequency-controlled drive solution from low to megawatt levels of power, the new Hägglunds Thunder creates an additional path to familiar Hägglunds benefits.

“PM synchronous motors are a well-known technology with untapped potential in heavy-duty industrial applications,” says Tor Jensen, Vice President Hägglunds

Global Sales. “Our focus on dependable and versatile direct drive solutions hasn’t changed, nor will it. But with Hägglunds Thunder as a complement to our electrohydraulic portfolio, we can offer a true Hägglunds solution with somewhat different drive characteristics. That provides new answers to specific customer challenges.”

### AMPLIFIED POWER WITH FULL PEACE OF MIND

While the specifications for Hägglunds Thunder fit neatly within the Hägglunds portfolio, they create a distinct performance envelope. The Hägglunds Thunder motor range has a nominal torque of up to 200kNm, and it provides fully variable speed from standstill. Nominal operating speed begins at 30rpm, which is slightly higher than solutions based on the existing Hägglunds portfolio. Yet the Hägglunds Thunder range opens up to a remarkable 300rpm — and provides constant high efficiency at nearly any speed within its range.

“Customers who require high, or extremely high, torque at speeds close to zero will be better served by Hägglunds

electrohydraulic solutions,” says Uno Sundelin, Project Manager for Hägglunds Thunder. “But where the requirements for torque and speed are a good fit, we can use Hägglunds Thunder to supply excellent direct drive solutions for up to 4,300kW of power. That’s a bold new peak, even for Hägglunds.”

Besides such efficient power, Hägglunds Thunder offers solid protection, sustaining a 200% overload for up to 60 seconds. “Reliability in unpredictable applications is what customers have come to expect from Hägglunds,” says Sundelin. “They’ll find that Hägglunds Thunder sacrifices nothing in that regard.”

### ABOUT HÄGGLUNDS

Hägglunds is a global expert in direct drive solutions. With power right on the rotating shaft, we provide reliability and flexibility in the most challenging situations — supporting customer efforts to do more, push further and use less. The company’s team of over 600 strong offers innovation, service and commitment, extending from its headquarters in Mellansel, Sweden, to wherever its customers need it.





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Hägglunds is a brand of Rexroth, a leading global supplier of drive and control

technologies. Hägglunds solutions enrich a comprehensive Rexroth portfolio.

### ABOUT BOSCH REXROTH

As one of the world's leading suppliers of drive and control technologies, Bosch Rexroth ensures efficient, powerful and safe movement in machines and systems of any size. The company bundles global application experience in the market segments of Mobile and Industrial Applications as well as Factory Automation. With its intelligent components, customized system solutions, engineering and services, Bosch Rexroth is creating the necessary environment for fully connected applications. Bosch Rexroth offers its customers hydraulics, electric drive and control technology, gear technology and linear motion and assembly technology, including software and interfaces to the Internet of Things. With locations in over 80 countries, around 33,800 associates generated sales revenue of €7.6 billion in 2023.

## WiCHMANN E GmbH: Wölfer Electric Motors strengthening global bulk and port applications

In late 2023, the WiCHMANN E GmbH was founded as a strategic new company under the WiCHMANN group umbrella, taking over the activities and brand rights of the long-established Franz Wölfer Elektromaschinenfabrik Osnabrück GmbH. With this acquisition, WiCHMANN ensured the continuation of one of Germany's most respected electric motor manufacturers and secured a knowledge base built over more than seven decades.

The Wölfer brand has been synonymous with high-quality, customized electric motors since 1945. Today, development and production are located at the long-standing Osnabrück works, where a wide range of drive solutions is manufactured for applications in harbour logistics, container handling, shipbuilding and offshore energy.

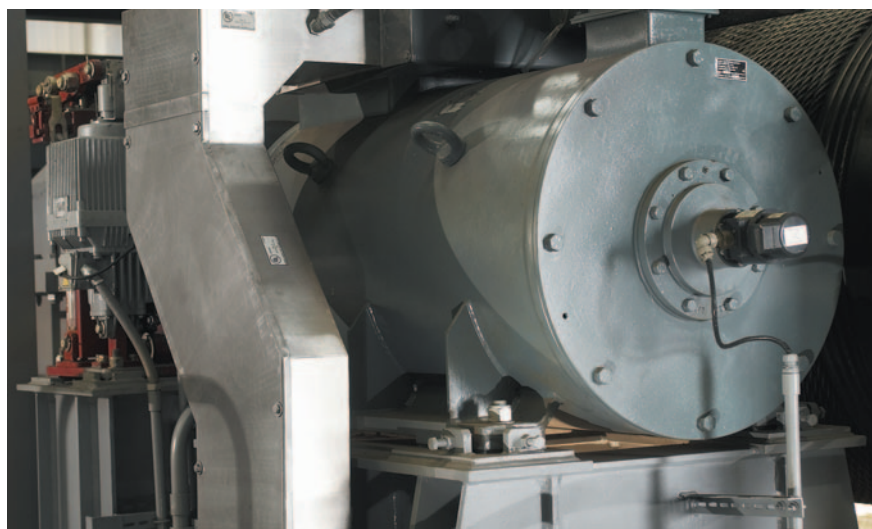
Core products include asynchronous motors in both squirrel-cage and slip-ring versions, tailored for heavy-duty operation. Their design is particularly well suited for



crane applications such as RMG (Rail Mounted Gantry) and RTG cranes, ship-to-shore equipment, winches, and drives for Automated Guided Vehicles (AGVs). The motors are engineered for high reliability, robust duty cycles and long service life under demanding conditions.

### PREVIOUS DELIVERIES UNDERLINE THE ROLE OF WÖLFER MOTORS IN CRITICAL INFRASTRUCTURE:

- ❖ **Hamburg Port, Germany:** 32 asynchronous motors were supplied for AGVs in one of Europe's busiest container hubs. These driverless vehicles rely on robust and energy-efficient drives to maintain throughput around the clock.
- ❖ **Offshore wind installation vessels:** a major repeat order was secured for motors used in heavy-lift applications aboard purpose-built jack-up vessels supporting the global energy transition.
- ❖ **Osnabrück Inland Port:** Wölfer motors were recently commissioned in the local logistics hub, a symbolic project under the motto 'From Osnabrück – For Osnabrück.'







The Osnabrück plant operates extensive in-house testing facilities. Motors up to 2,000kW and 690V can be tested under real-world conditions, covering a broad range of speeds and load cycles. Certification is available in line with all major classification societies including Lloyd's Register, DNV, ABS and Bureau Veritas. Efficiency classes from IE1 to IE3 can be achieved, depending on customer requirements.

This strong in-house competence reduces lead times and ensures full compliance with global standards. Typical delivery schedules are around 14 weeks for standardized types and 18 weeks for customized solutions, FCA Osnabrück.

Beyond newbuild projects, WICHMANN E GmbH also provides rewinding, repair and technical service for existing drives. This service capability ensures maximum lifetime for assets in ports, shipyards and industrial facilities worldwide.

Engineering support is tailored to the individual application, ranging from compact crane motors with additional cooling or braking systems, to low-inertia motors designed for test bench applications.

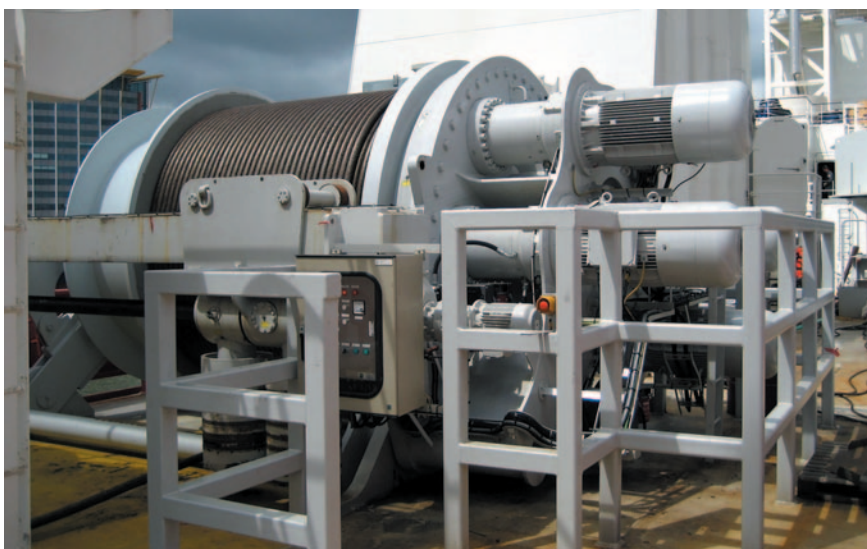
To prepare for growing demand,

WICHMANN E GmbH has announced the construction of a new production hall in Lotte, Germany, scheduled for completion in 2026/2027. This expansion will add capacity for larger series production and integrate modernized manufacturing processes. The investment reflects the company's commitment to long-term growth and its role as a reliable partner for international OEMs and operators.

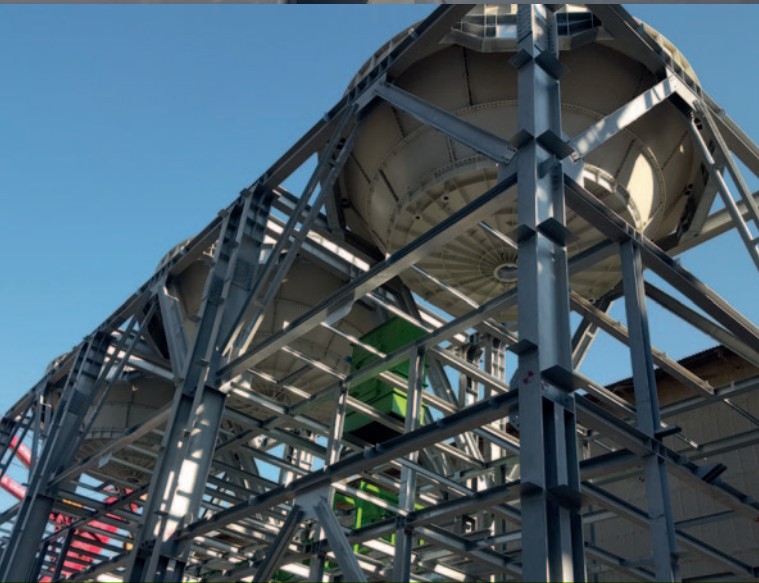
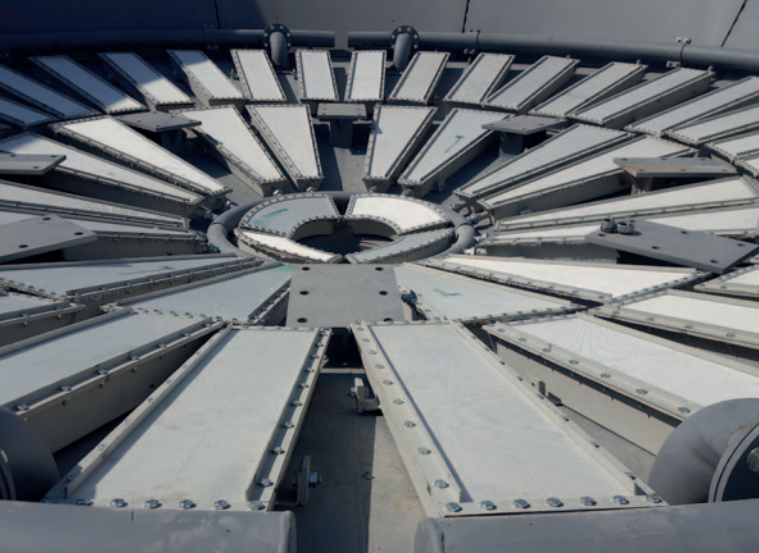
While WICHMANN E GmbH focuses on electric motors, it forms part of the wider WICHMANN group, which also includes the WICHMANN GmbH — a specialist in industrial and rail shaft lines with top-level welding certifications (DIN EN 15085-2 CLI, DIN 27201-6). Together,

both companies offer a complementary portfolio of mechanical and electrical drive technology 'Made in Germany', serving industries ranging from bulk handling and logistics to rail transport and construction equipment.

By safeguarding the Wölfer brand and investing in new capacities, the WICHMANN E GmbH ensures that German engineering continues to play a decisive role in critical infrastructure worldwide. Whether in bulk terminals, container ports, offshore vessels or industrial plants, WICHMANN E drive solutions deliver the reliability, efficiency and performance that global logistics demand.







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## Remote monitoring: theory versus reality

The potential of remote monitoring and machine learning to enhance performance in the bulk handling industry is exciting, with promises of impressive time and cost savings. However, practical implementation of such technology often reveals a more complex picture. While remote monitoring systems can address significant challenges for production managers and maintenance teams, they can also introduce new issues. Based on real-world experience, Robert Whetstone of Martin Engineering explores the benefits and the unintended consequences of adopting advanced technologies in bulk materials handling.

As a global expert in bulk material handling solutions, Martin Engineering has been among the pioneers of technology solutions for materials processing for decades. Over the past ten years Martin's engineers have developed remote monitoring solutions that use sensors to provide data on the condition and performance of wear parts without maintenance teams having to physically go to the equipment to inspect it in person.

Traditional inspection regimes not only introduce unnecessary operating costs but also needless exposure to safety risks. That's why remote monitoring is especially effective, particularly in cases when:

- ❖ Equipment is so far away that inspection time is a fraction of the time to get there.
- ❖ Inspection involves complex procedures and supervision to organize safe access.
- ❖ The operation needs to shut down just to inspect one area or piece of equipment.
- ❖ Inspecting every conveyor takes days but no maintenance is needed.



Copyright © Martin Engineering 2025.  
Installing remote monitoring for belt cleaners significantly reduces physical visits to each conveyor.



### THE CHALLENGE OF PREVENTIVE MAINTENANCE

The drive for production in the short-term makes it more likely that preventive maintenance inspections go to the bottom of the 'to do' list, and maintenance only becomes a priority when there's a problem that needs fixing.

Short-term targets frequently mean that systems 'run to failure' rather than being run to maximize long-term, cost-effective productivity.

Components like belt cleaners, which may not be seen as critical to productivity compared with other parts of the operation, are among the first to be overlooked. Therefore, Martin® Service Technicians (MSTs) are often called upon to react to a problem rather than prevent one. Ignoring maintenance for too long results in higher costs and more downtime in the long-term.

Remote monitoring mechanisms not only reduce labor but curtail unsafe behaviours such as taking shortcuts to access equipment to save time, ignoring inspection schedules and risk assessments,

or engaging in quick fixes with inadequate tools rather than planning safe maintenance during designated downtime.

By using cloud-based technology, operators can do real-time, condition-based monitoring and preventive maintenance of components like belt cleaners or air cannons. The data collected from sensors can help to predict when servicing may be required, giving operators enough time to arrange an inspection, order the required parts and book contractors to carry out maintenance during scheduled downtime.

### THE DEVELOPMENT OF VIABLE REMOTE MONITORING

Martin Engineering's Center for Innovation, located at its headquarters in Neponset, Illinois, USA designed and developed the first N2® Position Indicator (PI) for monitoring polyurethane conveyor belt cleaners (the first of many sensors compatible in the Martin OnSite infrastructure or ecosystem or platform). With the goal of making the device affordable, accessible, reliable and easy to install, the conveyor belt cleaners' performance and condition information is transmitted via a central 'gateway' to the cloud. Data is then clearly presented and easily accessed via a dedicated mobile app or desktop platform.

Martin's N2® PI is the ideal solution for drastically cutting down on inspection time, and the more difficult and time-consuming the belt cleaners are to inspect, the greater the potential for time saving. Essentially, if you know the condition of the belt cleaner blade by using the app, there is no need to go and visually inspect it. Live installations show that PI can reduce inspection time by as much as



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Martin's Center for Innovation at its headquarters in Neponset, Illinois, USA.



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*Copyright © Martin Engineering 2025. Martin's N2 Position Indicator provides data on the condition and performance of each belt cleaner.*

90%, which also means reduced exposure to the safety risks associated with accessing conveyors. Additionally, remote monitoring eliminates the guesswork around belt cleaner servicing — the condition of the blade is based on data-driven facts rather than human observation and perception. That opens up the prospect of true preventative maintenance and, over time, predictive maintenance.

As a result, since the introduction of the Position Indicator, there are now thousands of N2® PI devices installed at more than 40 mineral processing operations worldwide. While operators monitored the performance of equipment, Martin monitored the performance of the PI and discovered that it might not be the right fit for some operators. And just like the familiar personal tech we all use every day, remote monitoring of wear parts can also be the source of some frustrations. Working closely with customers, Martin engineers identified four key areas to consider with the implementation of a remote monitoring system:

#### **1) Does it address your pain points?**

Martin Engineering design engineers think a lot about pain points — the everyday problems that cause hassle, create risk, slow productivity, waste time and cost money. The company's core mission of 'cleaner, safer and more productive' operations drives the design and engineering of its extensive catalogue of products, including the N2® Position Indicator.

During Martin's initial research, it was clear that many technological solutions falter because they do not address real pain points. In other cases, developers fail to clearly explain to operators how their

innovative solution addresses their problems. And perhaps worst of all are those examples where new technology introduces new pain points that have been overlooked during development and testing.

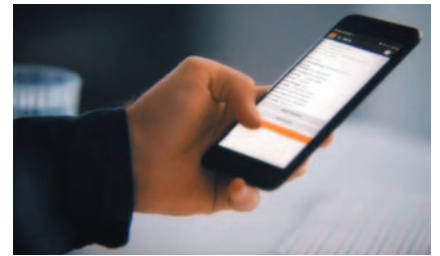
Critical for Martin's designers, therefore, was to ensure that the N2® PI supported the identification of Key Performance Indicators (KPIs) to ensure the right pain points were being addressed. Unique to each operation, these KPIs focus on production inefficiencies and the operational discrepancies between individual belt conveyors.

For example, the PI system is designed to show if there's a problem with a belt cleaner blade on each conveyor. For some maintenance managers that's useful for them to take urgent action. For others it's just another notification about another task on an already too-long list of jobs (and frankly one that they're not going to get round to anytime soon!). So remote monitoring is only useful if internal maintenance team has the bandwidth to keep up.

In other examples, such as a site where the production team continually conducts walk-rounds and visual inspections of the whole operation, remote monitoring is not valued to the same extent as sites where a walk-round is done infrequently. Data from the sensors is telling them what they already know so having to consult the app is itself a pain point.

#### **2) Does it deliver useful, actionable data?**

In a major bulk handling operation, there's a risk that remote monitoring solutions may lead to data overload. All of us are already inundated with information coming from innumerable sources, and additional



*Copyright © Martin Engineering 2025.*

*Remote monitoring is only useful if users are provided with useable, actionable data.*

data coming from remote monitoring systems competes with emails, messages and endless other notifications. Yet it's easy to fall into the trap of thinking that having access to lots more information is the goal, rather than the decisions and actions we take based on that information.

No matter how impressive any technology may be, or how interesting remote monitoring metrics may be, data collection alone doesn't achieve better productivity. The information therefore needs to be helpful, accurate and presented in a way that helps decision-making. Equally, having the wrong KPIs can switch focus away from the desired outcome and skew decision making in a way that is ultimately detrimental to productivity.

The Martin OnSite mobile app and OnSite dashboard provides a series of clear charts with actionable information that's automatically analysed, interpreted and presented in a way which makes decisions straightforward.

#### **3) Are you willing and able to change?**

One of the biggest barriers to advancement is the inability or unwillingness to change. This comes in two main forms — business processes and people. Firstly, long-established business processes can be rigid, engendering ways of working that become ingrained over decades. Secondly, people are generally resistant to change in their daily routines, regardless of inefficiency or safety.

So, in reality, introducing any technology requires change management. The installation and integration of the system must ensure the benefits of the change are well-anticipated and understood by stakeholders, and the new workflows are less onerous than the current regime. For example, workers in bulk handling operations often provide pushback believing that technology could make their jobs redundant. This is not wholly unfounded, after all, on a large-scale operation N2® Position Indicators could replace what a typical worker does for a up to a whole day each week.



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Copyright © Martin Engineering 2025. Once the central Gateway is installed and powered, each N2® PI can be fitted and paired in just a few minutes.

In some cases, conveyor belt maintenance teams who aren't aware that sensors are fitted, or aren't trained how then function, have had negative impacts on monitoring systems because they have failed to reset them correctly. Elsewhere there has been deliberate tampering of monitoring devices, and in one case the workers believed the new tech installations would be used to 'spy' of their behaviour, damaging their morale.

So, like all new systems, those involved must be prepared and trained in the right way, including explaining the rationale for installing remote monitoring systems, as well as reassurance about motives. When people are required to learn something new, without understanding why they are being asked to change, resistance is likely, and failure is probable. Such resistance can also be diminished and overcome by ensuring any new technology is easy-to-use, intuitive and even preferable (and certainly not worse than whatever the current procedures are).

#### 4) Does it integrate with existing systems?

The N2® Position Indicator is designed to be retrofitted to belt cleaners without any other upgrades to the system. And it's also scalable across operations of all sizes, types and ages without incurring additional cost. However, there may be numerous physical obstacles ranging from accessibility and available space to legacy steelwork that needs refabricating.

Once the central Gateway is installed and powered, each N2® PI can be fitted and paired in just a few minutes. More importantly, a single Gateway can handle 1,000s of PI sensors so expanding the N2® network doesn't require further investment in the communication infrastructure.

If an operation already has centralized remote monitoring for other components, N2® data can integrate with existing systems although it may require additional work to ensure compatibility. To avoid data overload, it is recommended to begin with simple core actionable KPIs such as status and wear times, then expand from there as required.

#### 'LISTENING TO UNDERSTAND' IS THE KEY TO SUCCESS

After spending around five years developing its N2® PI for conveyor belt cleaners, Martin Engineering formally launched the technology just before the global covid pandemic in 2020. Working hand-in-glove with customers' production and maintenance teams, Martin® Service Technicians listened, resolved teething challenges and reported issues. As a result, Martin has gone on to develop two further N2 conveyor products sensors which work with the same Gateway and is expected to launch a game-changing new flow aid sensor in 2025.

As with all things, a balanced perspective is required when embracing technological advancement. Martin is dedicated to helping customers accomplish their safety and efficiency goals, so the consultation and inspection of operations for viability, followed by a proper introduction and phased integration of the OnSite system is recommended.

To achieve the desired productivity improvement, it is imperative to understand the potential pitfalls that accompany change. Most importantly, having the right conversations, listening to understand the true pain points, embracing the challenge and working together are critical to transforming this huge opportunity into action and delivering tangible results.

#### ABOUT MARTIN ENGINEERING

Martin Engineering has been a global leader in bulk material handling for more than 80 years, continuously developing new solutions to make high-volume conveyors cleaner, safer and more productive. The company's series of *Foundations™* books is an internationally-recognized resource for safety, maintenance and operations training — with more than 22,000 print copies in circulation around the world. The 500+ page reference books are available in several languages and have been downloaded thousands of times as free PDFs from the Martin website. Martin Engineering products, sales, service and training are available from 18 factory-owned facilities worldwide, with wholly-owned business units in Australia, Brazil, China, Colombia, France, Germany, India, Indonesia, Italy, Kazakhstan, Malaysia, Mexico, Peru, Spain, South Africa, Turkey, the UK and USA. The firm employs more than 1,000 people, approximately 400 of whom hold advanced degrees.



#### About the Author

Robert Whetstone, Area Vice President, EMEA Region, Martin Engineering.

Robert Whetstone is responsible for Martin Engineering's Europe, Middle East, Africa & India region (EMEA). He started his career in the British Army before taking up leadership roles first in retail and then business services. He joined multinational building materials group Lafarge in 1998 where he held a number of senior positions in the UK and USA. In 2013 he took up a role with engineering services firm Babcock International to lead their Mining & Construction Business in North America before setting up his own consultancy supporting business growth. He joined Martin Engineering in 2017. Robert is a Fellow of the Royal Society for Arts, Manufacturing and Commerce (FRSA) and a former Fellow of the Institute of Quarrying (FIQ). His passion is developing and growing businesses by harnessing people's potential and strongly believes that people and organizations must evolve to stay ahead of the game and realize their full potential.



## Electric power drives Liebherr's latest crane deliveries to Italy

*The cranes for La Nuova Meccanica Navale, IPM Bari and Interporto Rivers Venezia are being shipped aboard MV Happy Diamond, and reinforce Liebherr's strong presence in Italy and its commitment to energy-efficient port solutions.*



By combining electric drive technology with high lifting capacities, advanced operator cabins and agile undercarriage systems, Liebherr equips Italian terminals for faster cycles, quieter operation and locally emission-free lifting where shore power is available.

Delivering performance for Italy's diverse port landscape, Liebherr has dispatched four additional mobile harbour cranes to Italy, reaffirming its role in the country's evolving port infrastructure. The shipment includes two LHM 550 for Bari's bulk terminal, each rated at 154 tonnes with a 54-metre outreach and equipped with e-drive for locally emission-free operation when connected to shore power.

La Nuova Meccanica Navale in Naples will receive an LHM 420 to replace an older LHM 1300. This crane, with a 124-tonne lifting capacity and 48-metre outreach, is built for heavy-duty shipyard operations, from removing large hatch covers to handling oversized components and tools with precision and speed. The company selected the LHM 420 for its reliability and manoeuvrability in confined quay spaces.

Interporto Rivers Venezia will also receive an LHM 420, configured with electric drive to support bulk and scrap operations at its multipurpose terminal. This addition complements the terminal's

existing fleet of four Liebherr mobile harbour cranes — an LHM 250, two LHM 320s and an LHM 550 — reinforcing its strategy to modernize handling capacity while reducing local emissions.

### EXPANDING CAPABILITIES ACROSS ITALIAN PORTS

Bari's grain gateway relies on dependable high-rate discharge to feed regional milling and pasta production for Divella Pasta, so the terminal's focus on efficiency is supported by the LHM 550's performance. Both cranes also feature the latest operator cabin, designed to reduce fatigue and improve situational awareness during long shifts, while LED floodlighting ensures clear visibility for safe, efficient handling even in low-light conditions. IPM Bari already operates two LHM 550s and is expanding capacity to meet growing throughput demands.

In Naples, a ship repair yard with two production sites and a 230-metre floating dock will deploy the LHM 420 for critical lifting operations, including hatch cover removal and the transfer of heavy machinery, where its reach, lifting power and precise positioning deliver clear advantages in confined quay spaces. The decision to replace an ageing LHM 1300 with a new-generation LHM 420 reflects the customer's confidence in Liebherr's long-term reliability and advanced

operator comfort features, ensuring that critical lifting tasks can be executed with accuracy and minimal downtime.

At Porto Marghera, the multipurpose platform is investing to modernize handling, storage and energy use; the electrically powered LHM 420 complements this direction by enabling locally emission-free lifts during bulk and scrap operations. The choice of Liebherr was driven by the crane's adaptability for multiple cargo types and its ability to integrate seamlessly into a terminal strategy focused on sustainability and operational flexibility, reinforcing the operator's ambition to become a benchmark for efficient, low-impact logistics in Northern Italy.

"Italian ports present a unique mix of requirements, from precision lifting in shipyards to high-volume bulk discharge," said Andreas Ritschel, General Manager Sales Mobile Harbour Cranes at Liebherr-Rostock GmbH. "By pairing electric drive options with proven reliability, we are delivering performance that meets operational targets and reduces local emissions where shore power is in place."

### ENGINEERING FOCUS, ELECTRIC PERFORMANCE AND LOCAL PARTNERSHIP

Liebherr's commitment to long-term reliability in Italy is reinforced by its collaboration with Mac Port, the company's exclusive sales and service partner since 2009. Mac Port operates a nationwide network for spare parts, training and field service, ensuring rapid response and predictable availability. Its certified processes and decades of experience in port mechanization make it a cornerstone of Liebherr's customer support strategy in the region.

A forward-looking approach highlights these deliveries: electric drives and advanced crane systems are enabling Italian operators to balance throughput targets with quieter, cleaner quays. Beyond this delivery, existing diesel-powered cranes can be retrofitted with electric drives thanks to retrofit kits provided by Liebherr, ensuring operation through electrical power for cranes already in service. As the country's ports invest in infrastructure and digital tools, the cranes shipped from Rostock will serve as adaptable assets — equally at home discharging grain, manoeuvring heavy yard components, or switching between bulk, scrap and containers — supporting the next phase of efficient, reliable maritime logistics.



## Powering the future of bulk material transport



*Oyu Tolgoi copper mine in southern Mongolia.*

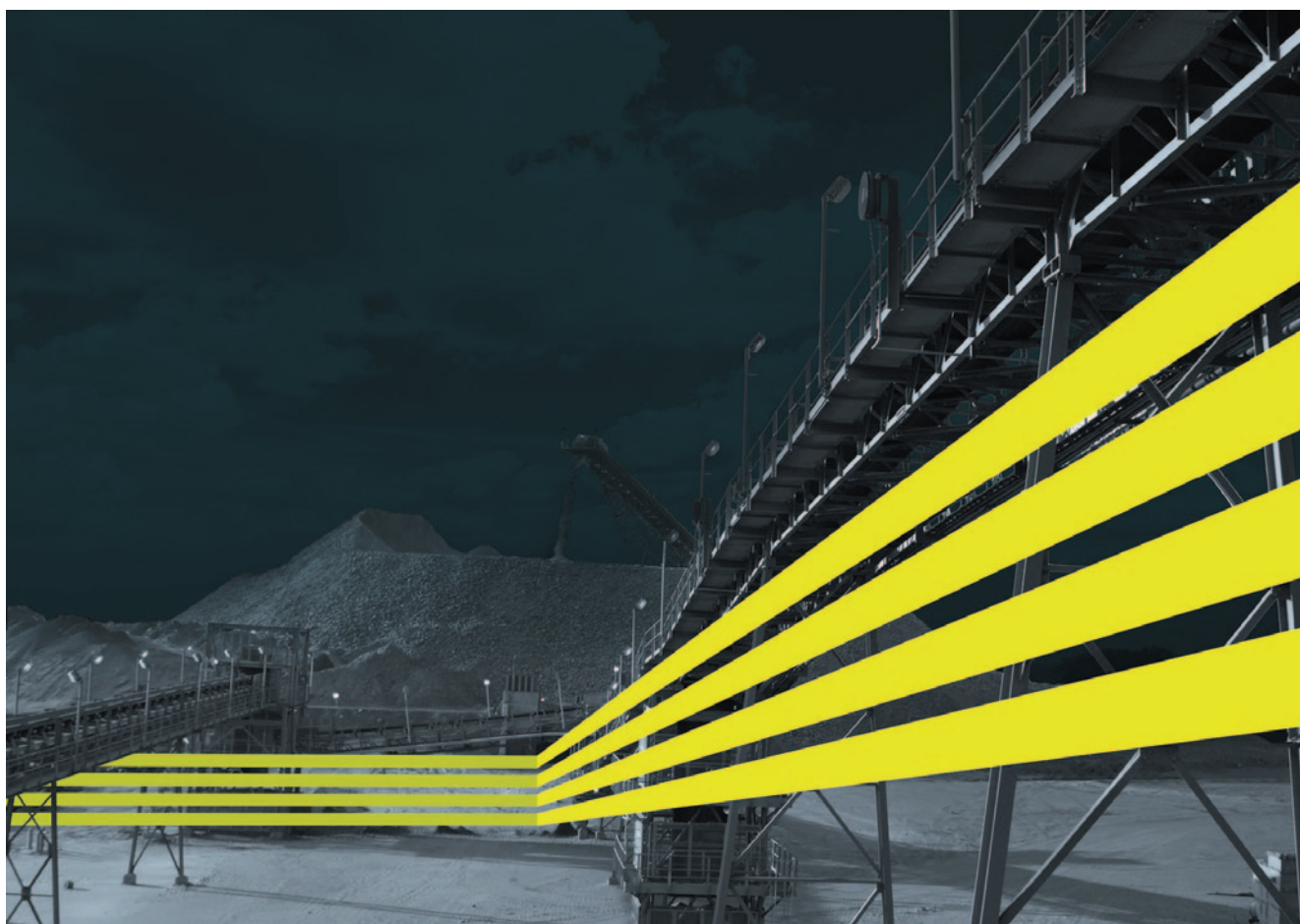
In bulk material handling, efficiency and sustainability are critical.

As global demand for minerals and other bulk resources continues to rise, the pressure is increasing for operators to find smarter, greener ways to move millions of tonnes of material from

extraction to processing.

Innomotics, a leading provider of drive technologies and solutions for heavy industry, is helping some of the world's leading mining companies not only to raise productivity but also reshape their environmental impact.

Building on a 150-year legacy of innovative engineering, the company has a history of firsts in the transport and processing of bulk materials, from the world's first mine winder and the world's first gearless conveyor to the world's first digital mine.





Innomotics' advantage is that it offers a comprehensive range of products, services and solutions to meet their customer needs.

It can combine various electric motor types and smart converters finely-tuned to meet specific customer needs with solutions in electrification, such as pre-assembled electrical houses, as well as digitalization tools that ensure efficient operation and avoid unplanned downtime. From Asia to South America, operators are discovering the advantages of innovation in motion.

### FROM THE DEPTHS OF THE Gobi

In early 2025, workers at the massive Oyu Tolgoi copper mine in southern Mongolia's Gobi Desert marked a major milestone with the commissioning of a state-of-the-art underground conveyor system. Developed over a period of seven years, this engineering marvel can transport more than 7,000 tonnes of ore per hour from depths of 1,400 metres to the surface — a critical link in one of the world's most ambitious mining projects.

Nine interconnected conveyors twist and climb through the underground network to deliver copper ore to the surface processing facilities. The project relied heavily on Innomotics for the design, engineering, and production of the complete conveyor drive system.

Innomotics provided a wide array of advanced electrical and automation equipment, including medium-voltage switchgear, high-performance transformers, low-voltage energy distribution systems, robust low-speed synchronous motors designed for high torque applications and pre-assembled electrical houses (E-Houses) to house and protect sensitive electrical infrastructure in harsh mining environments.

This integrated approach ensured a reliable, scalable solution tailored to the challenging demands of underground mining. The result is not just a more efficient operation, but also a significant reduction in ventilation power.

### HIGH IN THE ANDES: LOS PELAMBRES SETS THE STANDARD

On the other side of the globe, in the rugged terrain of the Chilean Andes, Innomotics has helped set a new benchmark in bulk material transport.

At the Los Pelambres copper mine, Innomotics designed and delivered what is now considered one of the longest and most energy-efficient conveyor systems in

the world.

Spanning 13 kilometres, the 1.8-metre-wide conveyor belt winds its way from the high-altitude open-pit mine down to the valley-floor processing plant, moving nearly 9,000 tons of ore every hour.

However, it is not the only scale which made this a pioneering project.

Thanks to an innovative design, the system actually generates electricity as it operates. The weight of the descending copper ore turns turbines, feeding power back into the mine's grid.

This clever use of gravity recovery supplies approximately 15% of the mine's total power consumption, displacing around 50,000 tonnes of CO<sub>2</sub> emissions annually.

This feature earned the project the National Prize for Power Efficiency awarded by Chile's Ministry of Economy.

### A PARTNER FOR THE LONG HAUL

In industries like mining, cement, ports, and other bulk cargo handling operations, uptime is everything. Innomotics' deep experience across multiple sectors gives it a unique advantage in designing reliable, high-throughput systems that are also future-proof. Whether it's delivering ore from deep underground in Mongolia or descending mountains in Chile, Innomotics is demonstrating how it can help heavy industries transition toward a more sustainable and efficient future.

As bulk material demands grow, so too does the need for smarter infrastructure. With proven success in some of the most challenging environments on earth, Innomotics is well-positioned to support operators looking to scale up — without compromising on sustainability or reliability.

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# Hamburg–Le Havre range

## major bulk handling region under the spotlight



*Grain terminal Sénalia Union Grand-Couronne.  
Vessel Novi at berth loading (photo: HAROPA  
PORT/Jean-François Damois).*

### HAROPA PORT: significant dry bulk hub

About 20% of French dry bulk transit through HAROPA PORT. Cereals, and more broadly the agro-industry, remain the main dry bulk sector of HAROPA PORT which occupies first place in Western Europe for maritime exports of cereals. HAROPA PORT distinguishes itself from other French port areas by its wide range of dry bulks. On the Seine axis, it is more specifically the Rouen operators who operate most of the traffic in the sector. They have know-how and long experience, complemented by a complete range of equipment for the handling and storage of a wide variety of products. Agro-industry with soft and fodder wheat, malting and fodder barley, corn, rapeseed, gluten cake,

rapeseed, cocoa, field beans, peas, malt, products for animal feed, and so forth.

#### CONSTRUCTION OF A NEW SILO

The diversity of these trades is also illustrated by the construction and public works sector with aggregates, sands, cements/clinkers, clays, urea, crushed stone, pumice. To these are added wood energy, (pellets), chemical products but also recyclable products such as scrap metal, SRF (solid recovered fuels) or crushed tyres. Other products such as peat, salts, attapulgites, petroleum coke complete the traffic carried out by the ports of the Seine axis.

Four cereal operators are present in

Rouen: Sénalia, Soufflet-Socomac, Simarex-NatUp and the BZ Group. The year 2024 was marked by the launch of work on the new silo of Groupe BZ on the Quai de Petit-Couronne (QPC), located about ten kilometres south of Rouen. The future equipment will increase the operator's storage capacity from 75,000 to 130,000 tonnes. The new silo, the company's second at QPC, will be operational in 2026. The BZ Group has also invested in new loading and conveyor gantries for the transport of cereals. For its part, HAROPA PORT has undertaken work to adapt the nautical capacities of the Petit-Couronne Quay and increase the draught by one and a half metres.





*Grain terminal Soufflet; loading cereals on bulk carrier Brave Arsenal, Rouen (photo: HAROPA PORT/Marin David).*

#### EXPECTED RECOVERY IN THE CONSTRUCTION & PUBLIC WORKS SECTOR

During the first half of 2025, the solid bulk sector recorded a total traffic of 5.8mt (million tonnes), representing a decrease of  $-18.4\%$ . HAROPA PORT processed a volume of 881,323 tonnes of aggregates ( $+58.7\%$ ), demonstrating a recovery in the construction and public works sector, which was weakened in 2024. Rouen remains the French leader in solid fertilizers for import but also for export with 398,000 tonnes. The other dry bulks show a total of 1.26mt over the first half of 2025, an increase of  $+35.4\%$ .



*Terminal dry bulk company Surveyfert handling salt (photo: HAROPA PORT/Marin David).*



*Vessel Ulusoy-8 unloading fertilizer for Surveyfert (photo: HAROPA PORT/Jean-François Damois).*



Global Fortune bulk carrier loading in front of the Simarex silos (photo: HAROPA PORT/Jean-François Damois).



The dry bulk sector is nevertheless marked by cereal exports, which have been in difficulty since July 2024. Indeed, during the 2024–2025 cereal season, which ended on 30 June, the Rouen port area processed a total of 5.21mt of cereals, compared to 8.7mt in the 2023–2024 season, which ranked among the best five ever achieved. These results are explained by a fall in

yields in the summer of 2024, marked by the worst soft wheat harvest recorded in France in four decades, with direct consequences on the volumes of cereals available for export.

Despite the decline in production, HAROPA PORT saw its market share increase slightly to 54% of French cereals exported by sea. After a strong downturn

in the first half (July 2024 to December 2024), the second half (January 2025 to June 2025) showed renewed momentum in Rouen with more than 3mt of cereals exported including 1mt of soft wheat, 840,000 tonnes of feed wheat, 919,000 tonnes of feed barley and 106,500 tonnes of malting barley. The rapeseed traffic represents 485,400 tonnes.

Busy port: Quai de Petit-Couronne, showing barge loading operations with a bulk carrier at the dock. In the background, construction of a new silo at Groupe BZ (photo: HAROPA PORT/Jean-François Damois).





# Mixed picture for Port of Antwerp-Bruges in volatile trade climate

## CONTAINER TRAFFIC STABILIZES, BULK TRAFFIC UNDER PRESSURE DUE TO INTERNATIONAL UNCERTAINTY

In the first nine months of 2025, Port of Antwerp-Bruges handled 202.6mt (million tonnes) of maritime goods, a decrease of 3.8% compared with the same period last year. The throughput of general cargo, including containers, conventional general cargo and RoRo, increased by 1.3%, while dry and liquid bulk together declined by 12.8%. Following a solid first half of the year, container volumes eased from August onwards, partly as a result of the phase-out of former shipping alliances. Trade with the United States continues to be affected by ongoing uncertainty surrounding US import tariffs.

## SLOWDOWN IN CONTAINER TRAFFIC AND DECLINING CONGESTION

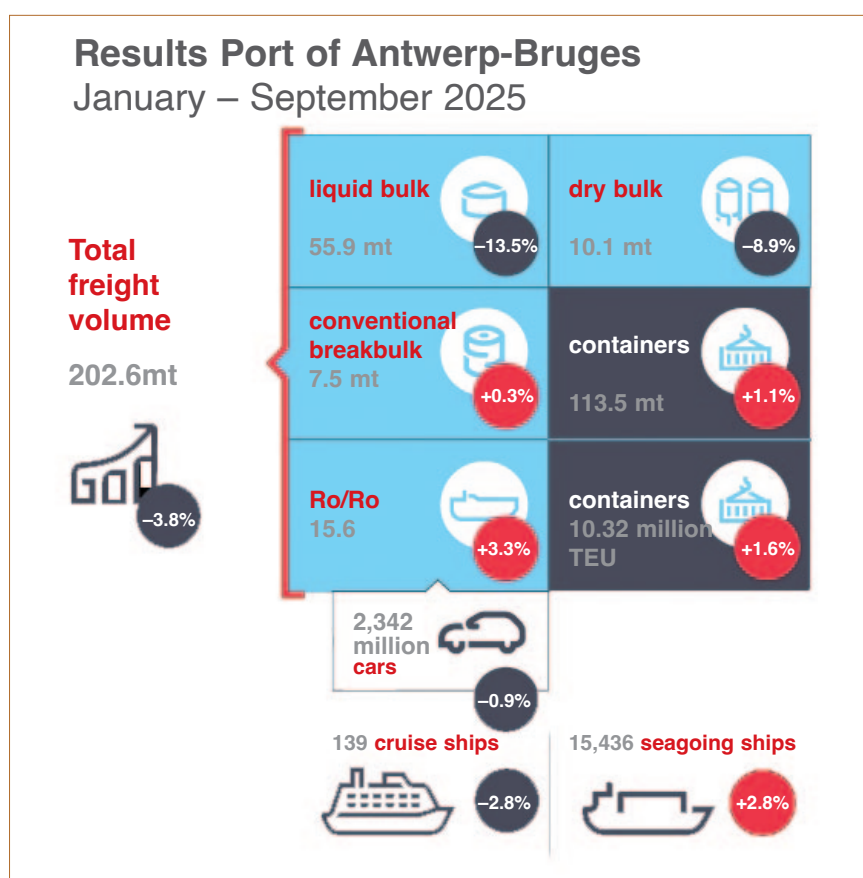
After a solid first half-year, container throughput declined 2.4% in the third quarter year on year. The first nine months saw modest growth, with tonnage rising 1.1% and TEU up 1.6%.

This slowdown is linked to the normalization of container shipping alliances, which brought an end to the temporary overlap between calls in old and new alliances. This led to a clear reduction in congestion, with quicker turnarounds and smoother traffic to the hinterland.

Port of Antwerp-Bruges' market share in the Hamburg–Le Havre range dropped 0.7 percentage points to 29.8% in the first half of 2025, largely because of lack of terminal capacity. The bottleneck will be tackled through the ECA project (Extra Container Capacity Antwerp). Low container shipping schedule reliability and a series of strikes however continue to affect operational reliability.

## MIXED TRENDS IN OTHER SEGMENTS

Conventional general cargo trade remained status quo after nine months, thanks to a recovery in steel imports, although exports remained under pressure from weaker shipments to a.o. the US and Mexico. Meanwhile, the European Commission unveiled stricter rules to curb foreign steel dumping. Liquid bulk declined 13.5%, hit by weaker petroleum derivatives exports to West Africa and persistent weakness in the European chemical sector. Volumes of biofuels and energy gases continued their growth. The decline in LNG traffic, resulting from the European ban on the transshipment of Russian gas, was partially offset by higher imports from



the US. Recent announcements in the European chemicals industry underline the continued pressure on the sector.

Dry bulk (-8.9%) was primarily impacted by weaker fertilizer shipments, partly offset by increased imports from Russia and Morocco, the former ahead of the introduction of new EU duties. The RoRo segment grew by 3.3%, supported by rising imports of new cars from China — despite European import duties introduced at the end of 2024 — as well as higher volumes of trucks and used vehicles. China has now become the leading country of origin for new car imports.

## INCREASING IMPACT OF AMERICAN TRADE MEASURES

Shipments to and from the US — Port of Antwerp-Bruges' second-largest trading partner — grew by 15% in the first nine months of 2025. This growth was primarily driven by containers and liquid bulk. However, since the summer, the impact of US import tariffs has become apparent: exports fell in the third quarter, particularly for steel, which declined by more than a third compared to the second quarter.

Imports remained stable for the time being, supported by a sharp increase in liquid bulk and a threefold rise in LNG volumes. This reinforces Port of Antwerp-Bruges' role as a gateway for alternative

energy flows replacing Russian gas. Container imports from the US also increased by 8%, although growth has slowed slightly since August.

## BALANCE BETWEEN RESILIENCE AND UNCERTAINTY

The results for the first three quarters of 2025 present a balanced yet challenging picture. After a strong start to the year, container flows are stabilizing and pressure on terminals is easing, while traffic with the US remains stable.

At the same time, declining exports and the challenging position of the European chemical sector illustrate the port's sensitivity to geopolitical and economic fluctuations.

Said Jacques Vandermeiren, CEO Port of Antwerp-Bruges: "The slight decline in our market share is largely explained by congestion in the first half of the year. Volumes were sufficient, but available terminal capacity was inadequate. Rearrangements within shipping alliances also had a temporary impact on the distribution of traffic between ports. We anticipate that our market share will recover as soon as additional capacity becomes available. The quarterly figures also highlight the resilience of Port of Antwerp-Bruges in a particularly volatile economic climate."



# Throughput at the Port of Rotterdam falls slightly in the first nine months of 2025

Total throughput in the port of Rotterdam fell slightly by 2.6% in the third quarter of 2025 compared to the same period last year. In the first nine months of this year, throughput was 320.2mt (million tonnes), compared to 328.9mt in the first nine months of 2024. The decline is mainly due to lower throughput of iron ore and mineral oil products. The throughput of agribulk, crude oil, LNG, and containers (in TEU) increased.

Boudewijn Siemons, CEO of Port of Rotterdam Authority: "Although total throughput volumes showed a slight decline in the first nine months of this year, developments in areas such as container throughput and the throughput of renewable fuels confirm the resilience and strategic value of the port of Rotterdam. At the same time, European industry is still under enormous pressure, which underscores the need to continue investing jointly in innovation, sustainability, and logistical efficiency."

## DRY BULK

The throughput of dry bulk decreased by 5.6% compared to the same period last year. The main reason for the decline is the sharp drop in the throughput of iron ore and scrap by 12.7% and 2.9mt. The decline in German steel production continued in the third quarter, under pressure from ongoing economic uncertainty and trade barriers. Electrical steel production also declined, albeit to a lesser extent, resulting in slightly higher scrap exports. Coal throughput fell by 5.3% compared to 2024, mainly due to reduced demand for coking coal in the steel industry. In contrast, the use of energy coal in the Netherlands and Germany increased due to higher energy demand that could not be fully met by additional solar and wind energy, particularly in the first quarter of 2025. The growth in imports of agribulk goods continued in the third quarter. As a result, throughput in this segment increased by 16.8% compared to last year. This increase is mainly due to the commissioning of a



*The Maasvlakte in Rotterdam  
(photo: Martens Multimedia).*

new dry bulk terminal in Rotterdam. Due to lagging industrial production in Germany, demand for raw materials is limited. The throughput of other dry bulk therefore shows a decline of 7.2% in the first nine months of 2025.

## LIQUID BULK

The throughput of liquid bulk declined by 3.4% to 146.4mt in the third quarter. This decrease of 5mt was mainly caused by a 7.3mt (−17.2%) reduction in the throughput of mineral oil products. The lower throughput of mineral oil products is a consequence of backwardation in the market, which makes storage unprofitable. As the chemical industry in Europe is not yet showing signs of recovery, the 'other liquid bulk' segment declined by 1.1mt (−4.1%). However, within this segment, the throughput of renewable fuels did increase, due to higher throughput of ethanol and SAF. The throughput of crude oil and LNG increased. Refining margins improved in the third quarter, partly due to attacks on Russian refineries. This reduces the supply of diesel for the global market. Combined with low diesel stock levels in Northwest Europe, this leads to higher margins. LNG throughput increased by 14.9% as gas stocks in Europe continued to be replenished.

## CONTAINERS AND BREAKBULK

Throughput in the container segment increased by 3.0% to 10.7 million TEU (the standard unit for containers) in the first nine months. In terms of tonnage,

throughput shows a decrease of 0.6% compared to the same period last year. The slight decrease in tonnage is due to the imbalance between imports and exports, resulting in more empty containers being transhipped. Exports from Europe are still suffering from the pressure on European competitiveness. This is particularly noticeable in the automotive industry and the chemical sector.

Due to strong import demand, particularly from Asia, the last three months of 2025 show an increase in container throughput in TEUs of 3.8% compared to 3.0% for the year to date. Total throughput in the Asia–Europe shipping region increased by 8.8% in the last nine months. Throughput on the transatlantic route increased by 14.6% in the first nine months compared to last year. The new sailing schedules introduced at the beginning of this year include more services from Rotterdam to this shipping region.

Total breakbulk throughput (Roll-on/Roll-off and other breakbulk) increased by 0.2% to 24.0mt. RoRo throughput decreased by 0.1%. Volumes to and from the United Kingdom have not yet recovered. The last six months have shown cautious signs of recovery. Other breakbulk rose 1.1% to 4.6mt. This increase was partly due to the delivery of monopiles (offshore wind foundations), steel pipes for the Porthos project, and an increase in the throughput of steel plates for the offshore industry.



## Successful revamp of the train loading station completed at HES Bulk Terminal Rotterdam



This summer, the team at HES Bulk Terminal Rotterdam (HBTR) successfully completed the revamp of the train loading station, a key asset that has been at the heart of operations since it was built in 1976.

The train loading station is handling up to six million tonnes of iron ore annually for HBTR's steel-producing customers in the local hinterland. Knowing the critical role it plays, HBTR decided to give it a second life, replacing the conveyor belts and modernizing the system to ensure its reliability for years to come. According to Peter de Klerk, Technical Manager at HBTR, "this project was a real team effort. By coordinating closely with the HES Group and our customers, we were able to modernize a critical piece of equipment without any disruption to operations and, most importantly, without compromising on safety."

The station now operates as a fully automated system, managed remotely from the control room. A single operator can efficiently supervise several machines at once — a major step forward in both efficiency and safety. This achievement reflects the value of strong collaboration

between the terminal's technical team and the Group. Over the past two years, the teams worked together to plan the renovation during a scheduled slowdown in production, aligning the project with the client's blast furnace maintenance. This careful co-ordination allowed the work to be completed without disrupting customer operations.

The project required approximately 15,000 contracted man-hours. To reinforce its commitment to safety, an external advisor was hired and present daily on-site, supporting supervisors and ensuring strict compliance with all safety protocols. As Jeroen van der Neut, COO of HES Group, explained, "The revamp of the train loading station is a great example of how we approach maintenance as part of our long-term asset strategy. By investing in reliability and efficiency, we ensure that our operations remain competitive while continuing to provide the high level of service our customers expect."

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HBTR has chosen to use durable, high quality machines and components with a long lifespan, built according to responsible manufacturing methods. Standards are in place at HBTR regarding an ethical, safe and socially and environmentally responsible performance.

In addition to the loading, unloading, storage and transshipment of various dry bulk products, the HBTR terminal offers added-value services such as the screening, blending and washing of coal (for the silicon metal industry) upon request as well.

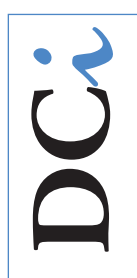
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## INDEX OF ADVERTISERS

Company	Page	Company	Page
Achenbach GmbH Metalltechnik	43	MGB & Company	117
ASGCO "Complete Conveyor Solutions"	57	Morska Agencja Gdynia Sp. z o.o.	29
Bedeschi SpA	83	Nantong Rainbow Heavy Machineries Co., Ltd.	67
Buhler AG, Grain Quality and Supply	25	Negrini Srl	95
Cleveland Cascades Ltd	101	ORTS GmbH Maschinenfabrik	84, 85
Conductix-Wampfler GmbH	41	PEINER SMAG Lifting Technologies GmbH	97
CRS - Container Rotation Systems Pty Ltd	3,	Port of Hamburg Marketing e.V.	6
<b>Inside Cover Coal Handling Directory</b>		RIKON A/S	<b>Cover Coal Handling Directory</b>
DCL, Incorporated	88	Rocktree Logistics Pte. Ltd.	5
DSM Shipbrokers / Shiptrade	17	RULMECA HOLDING S.P.A.	143
EMS-Tech Inc	27	Scantech International	142
Geometrica Inc	11	SCHADE Lagertechnik GmbH (AUMUND Group)	51
Global Manufacturing, Inc.	65	SENNEBOGEN Maschinenfabrik GmbH	<b>Inside Back Cover</b>
Häggblunds	111	Shi.E.L.D. Services srl	26
Italgru S.r.l.	75	SIBRE - Siegerland Bremsen GmbH	9
J & B Grijpers b.v.	135	Steelpaint GmbH	<b>Front Cover</b>
Jotun Performance Coatings	18	Superior Industries, Inc.	79
KOCH Solutions GmbH	45	Telestack Limited	99
Konecranes Port Solutions - Konecranes GmbH	<b>Back Cover</b>	Terex Deutschland GmbH	113
Liebherr-Hydraulikbagger GmbH	7	The CSL Group Inc.	23
Lion Bulk Handling b.v.	21	TMPB (Terminal de Multiusos do Poço do Bispo)	33
Listenow GmbH & Co.	87	Van Beek	81
Martin Engineering	<b>Inside Front Cover</b>	Verstegen Grijpers BV	149
MDG Handling Solutions S.r.l.	109	Vigan	77



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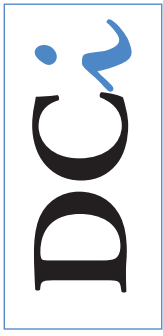
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*Manufacturer of grabs, grapples and clamshell buckets for cable, hydraulic and electro-hydraulic operation. Models for ships-gear, gantry, crawler cranes, and hydraulic equilibrium cranes. Brands include Pro-line, Hawco, Anvil, Owen, Yaun, Williams & Drott. New, used, rebuilds, repairs, parts and service since 1905.*

## APOLLO GROUP

Modem 28  
Coevorden  
Drenthe  
7741MJ  
The Netherlands  
**Contact:** Ms Daphne van Aken  
**Job Title:** Marketing  
**T:** +31 524 515 051  
**E:** da@apollobv.nl

**W:** www.apollobv.com

## APPLIED CONVEYOR TECHNOLOGY, Inc.

**DBA The ACT Group**  
14644 El Molino Street  
Fontana  
CA  
92335-6205  
USA  
**Contact:** Mr Edward Sunseri  
**T:** + 1 909 350 4703  
**E:** esunseri@groupactinc.com  
**W:** www.groupact.com  
**F:** + 1 909 350 4982  
*Bulk material handling: includes supply and design of conveyor, hoppers, screens, crushers. Dust control includes dust collection and dust suppression utilizing air, water and chemicals. Engineering services and complete service and installation capabilities are also offered.*

## ARAH EDAR (M) SDN. BHD.

2nd Floor, 198 Jalan Tun Sambanthan,  
Brickfields  
Kuala Lumpur  
50470  
Malaysia  
**Contact:** Mr Subra  
**Job Title:** Director  
**T:** + 603 2276 1555  
**E:** info@aeengineer.net  
**W:** www.aeengineer.net/  
**F:** + 603 5569 2935  
*Design, supply, installation and commissioning of conveyor systems for coal handling, port handling, power plants, sugar plants, fertilizer plants and wood chip mills.*

## ARDELT KRANBAU GmbH

Heegermühler Straße 64  
Eberswalde  
16225  
Germany  
**Contact:** Mr Uwe Grünhagen  
**Job Title:** Managing Director  
**T:** + 49 3334 819360  
**E:** uwe.grunhagen@ardelt-kranbau.de  
**W:** https://ardelt-kranbau.de/  
**F:** + 49 3334 8193699  
*Crane manufacturer (designing, fabrication, assembling, commissioning, training, after sales service in one hand for harbour cranes, shipyard cranes, balancer cranes - refurbishment, inspection, repair service for own and third party cranes).*

## ARLONA ENGINEERING

PO Box 41125  
Rossburgh  
Durban  
KZN  
4072  
South Africa  
**Contact:** Mr Steve Christy  
**Job Title:** Managing Director  
**T:** + 27 31 205 5991  
**E:** steve@arlona.co.za  
**W:** www.arlona.co.za  
**F:** + 27 31 205 9835  
*Established in 1975, Arlona Engineering is the largest manufacturer and supplier of stevedoring equipment in South Africa. Products are designed and manufactured to suit the arduous conditions experienced on the African continent.*

## AS LNK INDUSTRIES

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Riga  
LV-1013  
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## ASGCO "COMPLETE CONVEYOR SOLUTIONS"



730 Bangor Road  
Nazareth  
PA  
18064  
USA  
**Contact:** Mr Aaron Gibbs  
**Job Title:** President  
**T:** + 1 610 821 0216  
**E:** info@asgco.com  
**W:** www.asgco.com/  
**F:** + 1 610 778 8991  
*At ASGCO "Complete Conveyor Solutions" we use engineered products and services to provide our customers with the best solutions to their conveyor material handling applications. Combined with our global network of distributors, we are part of a coordinated team focused on insuring your success.*

## ASHTON BULK LTD

Liberty House  
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BS3 2ST  
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**T:** + 44 117 329 4841  
**E:** admin@ashtonbulk.com  
**W:** www.ashtonbulk.com

## ASTEC

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**W:** www.astecindustries.com  
*Astec Industries has been a leader in the aggregate, mining, industrial, construction and recycling industries for over 90 years. We design and manufacture innovative, productive, reliable and safe equipment, coupled with unparalleled customer service.*

## ASTEC BULK HANDLING SOLUTIONS

86470 Franklin Boulevard  
Eugene  
OR  
97405  
USA  
**E:** info@AstecBulk.com  
**W:** www.astecbulk.com/

## ATLAS-SSI Co. Inc

PO Box 1969  
622 East McPherson Drive  
Monticello  
Mississippi  
MS 39654  
USA  
**Contact:** Mr Ashley Watson  
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**T:** + 1 601 587 4511 ext 212  
**E:** ashley@atlas-ssi.com  
**W:** www.atlas-ssi.com  
**F:** + 1 601 587 5393  
*Custom designed one, two, three, four rope and hydraulic Clamshells / Grapples and Continuous Unloader Buckets. Best seller Atlas 4-rope clamshell buckets for large stevedoring and mobile harbor cranes. These buckets are built to maximize production and equipment service life.*

## AUMUND FOERDERTECHNIK GmbH (AUMUND GROUP)



Saalloffer Strasse 17  
Rheinberg  
D-47495/Germany  
**Contact:** Dr-Ing Pietro de Michieli  
**Job Title:** CEO  
**T:** + 49 2843 720  
**E:** info@aumund.de  
**W:** www.aumund.com  
**F:** + 49 2843 60270  
*Engineering, manufacture and supply of bulk materials handling equipment such as Bucket Elevators, Pan and Chain Conveyors, Samson® Material Feeders, silo discharge machines (Rotary Discharge Machine, Silo Discharge CENTREX®). Services also include field assembly, site supervision, commissioning, after sales service, PREMAS®, refurbishment and upgrading of existing equipment.*

## AURECON

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5000  
Australia  
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## AURECON

PT Aurecon Indonesia  
Sequis Tower, 6th Floor, Unit 6  
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12190  
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**T:** + 62 21 5099 1060  
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*Aurecon provides engineering, management and specialist technical services for support infrastructure solutions for international and local coal and mineral clients in full or partial "Pit to Port" projects.*

## AXIOCHOS LTD

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## BASIC MACHINERY Co. Inc.

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USA  
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## BATEMAN MANUFACTURING

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ON  
L0L 2L0  
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**T:** + 1 705 487 5020  
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## BAUER GEAR MOTOR GmbH

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## BAUFLEX-ENGINEERING LLP

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Kazakhstan  
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## BEDESCHI Spa



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**E:** marketing@bedeschi.com  
**W:** www.bedeschi.com  
**F:** + 39 049 884 8006  
*Bedeschi is able to develop complete handling solutions from train receiving to crushing, stacking, reclaiming (either with scraper or bucket wheel reclaimers), ship-loading or transshipping systems. We can design, engineer, manufacture and deliver turnkey solutions for any plant capacity.*

## BEIJING HAOSHENG TRANSMISSION TECHNOLOGY Co., Ltd.

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Greenland Central Plaza  
Xinghua Street  
Daxing District  
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## BELT CONVEYOR GUARDING

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Canada  
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**T:** + 1 866 300 6668  
**E:** safety@conveyorguarding.com  
**W:** https://conveyorguarding.com  
*BCG leads the industry in designing and manufacturing safety guarding solutions for conveyors and rotating equipment. Our user-friendly, ergonomic guarding is CSA/OSHA/MSHA compliant. Our products and services deliver the highest level of safety and innovation available on the market today.*



**BELT TECH INDUSTRIAL**

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47501  
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**BELTSCAN SYSTEMS**

PO Box 10457  
Southport  
Queensland  
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Australia  
**Contact:** Mr Robert Janevski  
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T: +61 0 400 865 466  
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F: +61 7 5532 0100  
Beltscan Systems is a global leader in conveyor belt condition monitoring, offering cutting-edge solutions for detecting damage, splice integrity, and overall belt performance. Our advanced technology maximizes operational efficiency, minimizes downtime, and reduces maintenance costs for industries worldwide. Optimize your belt's performance with Beltscan.

**BENDEZU PORT EQUIPMENT GmbH**

C/Camino Padre Cura, 15  
Bloq. Oasis II  
City  
Estepona  
Málaga  
29680  
Spain  
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**BENETECH GmbH**

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**Job Title:** Managing Director  
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**BENETECH USA**

2245 Sequoia Drive  
Suite 300  
Aurora  
Illinois  
60506  
USA  
**Contact:** Mr Christopher F Blazek  
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T: + 1 630 844 1300 x 214  
E: info@benetechusa.com  
W: www.benetechusa.com  
F: + 1 630 844 0064  
Benetech provides engineering, equipment, installation, and field services for bulk material handling projects, dust control equipment, advanced transfer chutes, flue gas conditioning chemicals and systems, and slagging/fouling control products. Our Plant Professionals division provides operating and risk management consulting.

**BEUMER GROUP GmbH & Co KG**

Oelder Strasse 40  
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North-Rhine Westphalia  
D-59269  
Germany  
**Contact:** Mr Alexander Tigges  
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Conveying and Loading Systems  
T: + 49 2521 24 0  
E: info@beumer.com

W: www.beumer.com  
F: + 49 2521 24 280  
The BEUMER Group is an international leader in the manufacture of intralogistics systems for overland and pipe conveying and loading systems. With 4,500 employees worldwide, the BEUMER Group has an annual sales of about EUR 950 million.

**BILFINGER TEBODIN**

Laan van Nieuw Oost-Indië 25  
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T: + 49 0621 459-0  
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W: www.tebodin.bifinger.com  
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Tebodin is an independent, multidisciplinary firm of consultants and engineers. We offer clients around the world the experience and expertise of more than 3,500 employees. Our extensive office network allows us to offer clients the best of both: integrated engineering and consultancy expertise combined with local knowledge. Clients include major international companies, governments and multilateral financing institutes.

**BITNER KABEL GmbH**

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40764  
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T: + 49 162 69 52 563  
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W: www.bitner-kabel.de/

**BLESTE SIA PORT EQUIPMENT**

Sloka 7122 (p/b №56)  
Jurmala  
Sloka  
LV-2011  
Latvia  
**Contact:** Mr Dinis Hruscovs  
**Job Title:** CEO  
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E: info@bleste.lv  
W: www.bleste.lv/

**BLUE WATER MISTING**

PO Box 7545  
West Lakes  
Adelaide  
South Australia  
5021  
Australia  
**Contact:** Mr James Davenport  
T: + 65 8668 7967  
E: sales@bluewatermisting.com  
W: www.bluewatermisting.com  
Dust suppression systems to eliminate dust in bulk handling operations.

**BLUG CREDEBLUG S.L.**

Juan XXIII - 9  
Azpeitia  
Guipuzcoa  
20730  
Spain  
**Contact:** Mr Oscar Oteiza  
**Job Title:** Marketing Manager  
T: + 34 943 810 150  
E: marketing@blug.es  
W: www.blug.es  
F: + 34 943 815 665  
Since 1965, Credeblug has been a major provider of bulk handling equipment - specializing in designing and manufacturing grabs. Its product offering ranges from 50 litres up to 45m3 capacity. Credeblug is respected worldwide as a grab manufacturer and offers a quality rope-operated, hydraulic

and electro-hydraulic or motor grab catalogue, customized to meet specific customer requirements.

**BMH GLOBAL PTY LTD**

Level 1/11 East Parade  
Perth  
Western Australia  
6004  
Australia  
**Contact:** Mr Con Kamaras  
**Job Title:** Delivery and Technical Specialist  
T: + 61 411693961  
E: ckamaras@bmhglobal.com.au  
W: www.bmhglobal.com.au

**BOGAERT TRANSMISSION (GEHA)**

Industriepark  
Neringstraat 5  
Londerzeel  
B-1840  
Belgium  
**Contact:** Mr Luc Vliminckx  
T: + 32 52 75 70421  
E: info@bogaert-transmission.com  
W: www.bogaert-transmission.com  
F: + 32 52 30 01 98  
Specialists for over 30 years in supplying, engineering and manufacturing high quality chains and sprockets as well as for bucket-elevators en masse conveyors, apron conveyors etc and for cement, coal, fertilizer, steel, ore, minerals and other plants and factories.

**BORGHI ASSALI SRL**

Via Caduti di Navicello n.1  
Villavara  
Di Bomperto (Modena)  
41030  
Italy  
**Contact:** Mr Francesco Thione  
**Job Title:** Senior Sales Manager  
T: + 39 059 909 412  
E: francesco.thione@borghiassali.it  
W: www.borghiassali.it  
The Borghi Assali company designs and manufactures molds and equipment for cold sheet metal deformation, producing steering idle axles for forklifts and airport tractors. With its wide range of products, the company is able to satisfy the different needs of its customers, both European and International.

**BOSSTEK**

1607 W. Chanute Rd.  
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IL  
61615  
USA  
**Contact:** Mrs Brooke Carlson  
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T: + 1 309 693 8600  
E: info@bosstek.com  
W: https://bosstek.com/  
F: + 1 309 693 8605  
The DustBoss line of portable dust suppression equipment uses atomized mist technology, a more effective and less wasteful alternative to traditional methods such as hoses and sprinklers.

**BRAY PROCESS CONTROL**

13788 West Rd  
Suite 200  
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TX  
77041  
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**BRELKO CONVEYOR PRODUCTS**

PO Box 62392  
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Johannesburg  
Gauteng  
2107  
South Africa  
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BRELKO Design and manufacture a range of products for the bulk materials handling industry that is backed-up by a comprehensive installation and maintenance service. These products assist in the control of spillage, carryback and dust, as well as promoting trouble free flow of material at belt conveyor transfer and load points. Other equipment: Air Cannons, Belt tracking and alignment.

**BRESTON B.V.**

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**BRIDON-BEKAERT ROPEFS GROUP GLOBAL HQ**

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Bekaert's ambition is to be the leading partner for shaping the way we live and move, and to always do this in a way that is safe, smart, and sustainable. As a global market and technology leader in material science of steel wire transformation and coating technologies, Bekaert (bekaert.com) also applies its expertise beyond steel to create new solutions with innovative materials and services for markets including new mobility, low-carbon construction, and green energy. Founded in 1880, with its headquarters in Belgium, Bekaert (Euronext Brussels, BEKB) is a global company whose 24 000 employees worldwide together generated € 5.3 billion in combined sales in 2023.

**BRUKS SIWERTELL AB**

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**Contact:** Mr Bo Ljung  
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**BRUKS SIWERTELL AB**

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GA  
30005  
USA  
**Contact:** Mr Ken Upchurch  
**Job Title:** Vice President of Sales & Marketing  
T: + 1 770 849 0100 x109  
E: info@bruks.com  
W: www.bruks.com  
Machines and complete plants for processing, storing and handling bulk materials in Bulk Terminals - including Tubular conveyors, various storage solutions and ship loaders as core products. BRUKS supplies complete stockyard equipment and systems which range from the smallest semi-automated systems to the largest fully automated systems including open storage and closed or covered storage configurations.

**BRUKS SIWERTELL AB**

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W: www.bruks-siwertell.com  
Bruks Siwertell is a market-leading supplier of dry bulk handling and wood processing systems. With thousands of installations worldwide, our machines handle your raw materials from forests, fields, quarries and mines, maintaining critical supply lines for manufacturers, mills, power plants and ports. We design, produce and deliver systems for loading, unloading, conveying, storing, and stacking and reclaiming dry bulk materials, alongside equipment for chipping, screening, milling and processing wood for the biofuel, board, saw mill, pulp and paper industries.

**BSP ENGINEERING S.R.L.**

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**BTW PLANT SOLUTIONS - A DIVISION OF BT-WOLFGANG BINDER GmbH**

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T: + 43 3117 25152 2272  
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**BULK CARGO HANDLING BVBA**

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**BULK MATERIAL EQUIPMENT**

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**BULK STORAGE INC**

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Illinois  
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**BUREAU VERITAS**

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**BUREAU VERITAS**

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**BUREAU VERITAS FUELS**

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Inspectorate offers a full range of inspection, analytical and specialist testing services to the solid fuels and biomass industries and has coal-handling coordination offices and ISO 17025 accredited laboratories in all the major coal producing/consuming countries worldwide.

**BUTTIMER ENGINEERING**

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E21 W240  
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**Contact:** Mr Declan McGrath  
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E: info@buttimer.ie  
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**Buttimer Engineering** is a diversified mechanical engineering company with over 40 years experience, specialising in bulk materials handling systems and high-quality steel fabrication. In 2014 Buttimer Engineering launched their DOCKSOLID® brand, a range of market leading standard and environmental Ship Unloading Hoppers. Buttimer Engineering operate across a range of industries, providing design, fabrication, procurement, installation, maintenance, project management and engineering services. The primary goal of the company is to continuously offer bespoke and sustainable solutions to customers. With combined knowledge and experience of over 45 years, powerful, environmentally friendly solutions and prosperous outcomes for customers can be delivered.

## BV BECO

Industrieterrein "De Biezen"  
 De Limiet 18  
 Vianen  
 Utrecht  
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 The Netherlands  
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**F:** + 31 347 377 780  
 For more than 20 years Beco Grabs has been providing high-end, ready-to-run technological solutions in the field of grabs for the bulk and dredging market. We have a big scale of products: Grabs - Wheel loader, excavator and demolition equipment - Tipping Trailers - Hooklift carriers - Harbour- and Industrial trailers.

## BVS CRANES

Organize Sanayi Bölgesi  
 Oguz Cad. No:21  
 Sincan  
 Ankara  
 06935  
 Turkey  
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## G SPENCER LTD

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## CACHAPUZ - WEIGHING & LOGISTICS SYSTEMS, LDA

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 Braga  
 4701-952  
 Portugal  
**Contact:** Mrs Juliana Silva  
**Job Title:** Marketing Assistant  
**T:** + 351 253 603 480  
**E:** marketing@cachapuz.com  
**W:** www.cachapuz.com  
**F:** + 351 253 603 485  
 Cachapuz is a reference in the implementation of innovative solutions to automate the logistics, dispatching, reception and weighing processes in industrial plants. With a modular platform and extensive know-how, Cachapuz is able to

meet the needs of several sectors worldwide.

## CALIM GRAB INDUSTRY

Orta mahalle erk sokak  
 A blok no 5A  
 iç kapi no 4 Tuzla  
 İstanbul  
 81540  
 Turkey  
**Contact:** Mr Murat Çalim  
**T:** + 90 533 226 4923  
**E:** info@calimkepc.com.tr  
**W:** www.calimkepc.com.tr  
**F:** + 90 216 399 79 71  
**Calim Grab Industry**, established in 1970, specializes in manufacturing grabs for international seagoing cargo handling grabs. Over 2.400 grabs have been delivered worldwide to date. High-standard technology and reliable products are the result of our respect for the requirements of the market in combination with incremental improvement and implementation of experience gained throughout decades. CALIM GRABS will continue to be a reliable name in the machine industry.

## CAMBELT INTERNATIONAL LLC

2820 West Directors Row  
 Salt Lake City  
 Utah  
 84104  
 USA  
**Contact:** Mr Justin Barker  
**Job Title:** Marketing  
**T:** + 1 385 276 3812 +1 801 972 5511 x 202  
**E:** justinbarker@cambelt.com  
**W:** www.cambelt.com  
 Cambelt International has been engineering and manufacturing dry bulk materials handling systems for the past fifty (50) years, specializing in steep-incline belt conveyors, utilizing its unique one-piece, fully-molded corrugated sidewall, cleated conveyor belting. Typical angles from 25° to 90° (vertical).

## CAPOTEX

Colombia 1  
 Majadahonda  
 Madrid  
 28220  
 Spain  
**Contact:** Mr Esteban Díaz Ferrer  
**Job Title:** Sales Manager  
**T:** + 34 91 634 71 92  
**E:** estebandiaz@capotex.com  
**W:** www.capotex.com  
**F:** + 34 91 636 21 15

## CATERPILLAR (UK) LTD.

Peckleton Lane  
 Desford  
 Leicester  
 LE9 9JT  
 UK  
**Contact:** Mrs Amy Doughty  
**Job Title:** Trade Press Relations - EMEA  
**T:** + 44 1733 584633  
**E:** amy.doughty@cat.com

## CATERPILLAR SARL

Route de Frontenex 76  
 Geneva  
 1207  
 Switzerland  
**Contact:** Mr Bert Heijligers  
**Job Title:** Marketing & Communication  
**T:** + 31 73 639 9716  
**E:** Heijligers\_Bert@cat.com  
**W:** www.cat.com  
 Caterpillar builds and supports products that are ideally suited for dry bulk handling in port environments. CAT equipment can be used to load and unload ships, barges; transfer, load and store materials; build and manage stockpiles; clean and maintain ships and quays.

## CAVOTEC SA

Via G.P. Pioda 14  
 Lugano  
 CH-6900  
 Switzerland  
**Contact:** Mr Dirk Fussel  
**Job Title:** Sales Director Mining & Tunneling  
**T:** + 41 91 911 4010  
**E:** dirk.fussel@cavotec.com  
**W:** www.cavotec.com  
**F:** + 41 91 922 54 00  
 Other Equipment: Electrical Equipment.  
 Cavotec is a leading engineering group that designs and manufactures automated connection and electrification systems for ports, airports and industrial applications worldwide. Our innovative technologies ensure safe, efficient and sustainable operations. To know more, visit: Cavotec.com

## CCTEGIEC

Floor 7, The Coal Tower  
 Block 13 Hepingjie  
 Chaoyang District  
 Beijing  
 China  
**Contact:** Ms Lee Smith  
**Job Title:** Manager  
**T:** + 86 1 3916483630  
**E:** 13916483630@163.com  
**W:** http://en.iec.ccteg.cn/

## CDM SYSTEMS, Inc

19230 Evans Street NW  
 Suite 202  
 Elk River  
 MN  
 55330  
 USA  
**Contact:** Mr Andrew Parker  
**Job Title:** Vice President  
**T:** + 1 763 428 9700  
**E:** sales@cdmsys.com  
**W:** www.cdmsys.com  
**F:** + 1 763 428 9701  
 Over 30 years experience offering a comprehensive range of bulk conveying systems, components and engineering/design services. Provide conveying and bulk handling solutions for materials from Ash through to Zinc, including marine applications as well as those in hostile, severe or high-temperature environments.

## CHANGSHA KAIYAN INSTRUMENTS CO. LTD

172 Kaiyuan Road  
 Changsha Economic & Technological Development Zone  
 Changsha  
 410100  
 China  
**Contact:** Ms Susan Wang  
**Job Title:** Overseas Director  
**T:** + 86 731 4012074 / + 86-731-84021617  
**E:** susanky@chs5e.com  
**W:** www.cckic.net  
**F:** + 86 731 4012074

## CHIA ESPIRALES

Polígono Industrial El Sotillo S/N  
 La Puebla de Cazalla  
 Seville  
 41540  
 Spain  
**Contact:** Mr Álvaro Páez  
**Job Title:** Purchasing and Marketing Department  
**T:** + 34 695 402 000  
**E:** alvaro@espirales.es  
**W:** https://espirales.es/

## CHINA HUADIAN ENGINEERING CO., LTD

Room 711, Building A, Hudian Plaza  
 No. 6 Auto Museum East Road  
 Fengtai  
 Beijing  
 100160  
 China  
**Contact:** Ms Chen Qiao  
**Job Title:** Market Manager of Materials Handling International  
**T:** + 86 10 6391 9524  
**E:** chenq@chec.com.cn

**W:** www.hhi.com.cn;  
 www.chec.com.cn  
**F:** + 86 10 63919548  
 With the engineering system design and EPC as the principal business and the R&D and manufacturing of core products and relevant high-end products and investment operations as the support, HHI is committed to providing the clients with integrated solutions in terms of material handling engineering, thermal power engineering, industrial noise treatment engineering, clean & effective coal utilization engineering and offshore wind power engineering etc.

## CICSA GROUP

Via dell'Industria, 2  
 Beverate di Brivio (LC)  
 Lecco  
 23883  
 Italy  
**Contact:** Ms Jelena Pavlovic  
**Job Title:** Marketing Manager  
**T:** + 39 039 53207 39  
**E:** jelena.pavlovic@cicsa.com  
**W:** www.cicsa.com  
**F:** + 39 039 53200 24  
 The CICSa Group is one of the world's leading chain manufacturers. It operates internationally and specialises in the production of high-quality chain systems and components for bulk material handling solutions. Headquartered in the North of Italy, the CICSa Group of Companies includes an Italian unit manufacturing round steel chains, a Spanish unit manufacturing mechanical chains, and two sales units incorporated in India and in China. The global business is supported additionally by sales offices and agents in more than 60 countries worldwide.

## CIMBRIA A/S

Faarttoftevej 22  
 Thisted  
 DK- 7700  
 Denmark  
**Contact:** Mr Thomas Mohr  
**Job Title:** Sales Director  
**T:** + 45 9617 9000  
**E:** cimbria.holding@agocorp.com  
**W:** www.cimbria.com  
 Cimbria is a global leading company of conveying, drying, processing, sorting and storage solutions for grains, seeds, food and bulk products. Cimbria designs, manufactures and services custom-built installations, from stand-alone machines to turnkey plants. Our experience ensures our clients a targeted advice and solutions, to grow the business together.

## CINTASA AMERICAS

PO Box 3655  
 Habersham Road NE  
 Unit A 206  
 Atlanta  
 GA  
 30305  
 USA  
**Contact:** Mr Alex Mosley  
**Job Title:** Managing Director  
**T:** + 1 404 451 8648  
**E:** a.mosley@cintasa.com  
**W:** www.cintasa.com  
 Leader in conveyor systems and material handling equipment designed and manufactured with in-house engineering and technology, adapted to client requirements. With over 45 years of specialization Cintasa offers the best solution to our clients. Worldwide references in all industrial sectors.

## CINTASA S.A.U.

Ctra. N-232 - Km. 252a Utebo  
 Zaragoza  
 50180  
 Spain  
**Contact:** Mr Jaime Simon  
**Job Title:** Sales Manager  
**T:** + 34 976 770 656  
**E:** cintasa@cintasa.com  
**W:** www.cintasa.com

Specialized in the manufacturing of conveyors systems and all its variants. All it designed with own technology and adapted to the need of each client. More than 50 years of proven experience in installations in diverse sectors and with worldwide supply.

## CITA LOGISTICS PTY LTD

C/-William Buck  
 Level 29/66 Goulburn St  
 Sydney  
 NSW  
 2000  
 Australia  
**Contact:** Ms Julie Forster  
**Job Title:** Agency Manager  
**T:** + 61 417 285 640  
**E:** cita-aust@citalogistics.com  
**W:** www.citalogistics.com  
 CITA Logistics LLC provides a range of bulk materials services in USA and Australia: sourcing, logistics management including laytime calculations, Shipping Agency, sampling and analysis.

## CVETTINI ITALO & C SAS (CFS HANDLING)

Via Sigalina a Mattina, 12/14  
 Montichiari  
 BS  
 25018  
 Italy  
**Contact:** Mr Italo Civettini  
**Job Title:** Owner  
**T:** + 39 340 135 8822  
**E:** civettini@cfshandling.it  
**W:** www.cfshandling.it  
 Civettini Italo & c sas owner of the brand CFS Handling works in design and manufacturing of equipment for handling across a range of sectors including coal, cement, steel mills, demolition, ores, urban solid waste, paper etc. The company's product range includes mechanical, hydraulic and electro-hydraulic buckets as well as hydraulic and electro-hydraulic grabs to suit the customer's specific needs.

## CLAUDIUS PETERS PROJECTS GMBH

Schanzenstrasse 40  
 Buxtehude  
 D-21614  
 Germany  
**Contact:** Mr Kurt Herrmann  
**Job Title:** Managing Director  
 Sales  
**T:** + 49 4161 706 227  
**E:** projects@claudiuspeters.com  
**W:** www.claudiuspeters.com  
**F:** + 49 4161 706 270  
 Product lines include grinding systems, storage and mixing silos, pneumatic conveying systems, ash removal systems, self-unloading vessels, packing and palletising systems, pulverised coal injection systems for blast furnaces.

## CLAUDIUS PETERS TECHNOLOGIES S.A.S

34 Avenue de Suisse  
 BP 269  
 Illzach  
 Cedex  
 F-68316  
 France  
**Contact:** Mr Jean Christophe Holfert  
**Job Title:** Sales Director  
**T:** + 33 389 31 33 19  
**E:** technologiesa@claudiuspeters.com  
**W:** www.claudiuspeters.com  
**F:** + 33 389 61 95 25  
 Claudius Peters Technologies SAS is a company of Langley Holdings. Specialised in Stockyards and Belt Conveying systems we develop all kind of projects with stackers, reclaimers, including side stackers, tripper, shuttle type stackers; bridge, portal or side reclaimers; linear or circular, open or covered.

## CLEVELAND CASCADES LTD



Unit 22 Dukesway  
 Teesside Industrial Estate  
 Thornaby  
 Stockton on Tees  
 TS17 9LT  
 UK  
**Contact:** Ms Sally Buckworth  
**Job Title:** Managing Director  
**T:** + 44 1642 753272  
**E:** enquiries@clevelandcascades.co.uk  
**W:** www.clevelandcascades.co.uk  
**F:** + 44 1642 753270  
 Designs and constructs the Cleveland Cascade bulk loading chute for shiploading, silo filling, truck and railcar loading and for conveyor transfer points. The chute minimises dust emissions and reduces product degradation and segregation.

## CNBM INTERNATIONAL ENGINEERING CO., LTD.

19th Floor, Building 4  
 Interwest Business Center  
 NO.9 Shoutai South Road  
 Beijing  
 100048  
 China  
**Contact:** Mr Wang Lin  
**Job Title:** Bulk Handling Division Manager  
**T:** + 86 10 68796130  
**E:** cbmie@cbmie.com  
**W:** www.cnbmengineering.com/  
**F:** + 86 10 68796029

## COAL CONTROL

Reisholzstraße 15  
 Hilden  
 40721  
 Germany  
**Contact:** Mr Ronald Salzmann  
**T:** +49 21 03 951 882  
**E:** info@coal-control.de  
**W:** www.coal-control.com  
**F:** +49 21 03 951 839

## COBRA EUROPE SAS

12 rue Henry Guy  
 Luxeuil les Bains Cedex  
 70300  
 France  
**Contact:** Ms Florence Gachelin  
**T:** + 33 38 4938 930  
**E:** florence@cobra-cs.com  
**W:** www.cobra-cs.com  
 Cobra has an international sales team and two production sites (in France and Poland). With the three brands Depreux, Transco and Indi as well as the corresponding accessories and services, Cobra offers complete solutions for your requirements. Our decades of experience is based on:  
 - a controlled manufacturing process,  
 - the traceability of raw materials,  
 - compliance with safety standards,  
 - cooperation with universities and institutes,  
 - Highly qualified staff.  
 For more information about our range, contact the nearest Cobra office:  
 - France: +33 84 93 89 30  
 - Poland: +48 32 284 00 22  
 - Spain: +34 953 81 76 70  
 - United States: +1 966-552-1536.

## GOLES ASSOCIATES

PO Box 5096  
 Dalkeith  
 Western Australia  
 6009



Australia  
**Contact:** Mr Richard Coles  
**Job Title:** Manager Business Development  
**T:** + 61 8 9389 8848  
**E:** rcoles@colesassociates.com.au  
**W:** www.shiploader.com.au  
**F:** + 61 8 9386 5700  
*Specialising in acquisition, divestment and relocation and of pre-owned mining and infrastructure equipment worldwide.*

## COMATEC PROCESS AND AUTOMATION OY

Voudintie 3  
 Oulu  
 90400  
 Finland  
**Contact:** Mr Jukka Seppänen  
**Job Title:** Engineering Manager  
**T:** + 358 447361501  
**E:** jukka.seppanen@comatec.fi  
**W:** www.comatec.fi/oucons

## COMMODITY INSPECTION SERVICES

PO Box 35112  
 Rotterdam  
 3005 DC  
 The Netherlands  
**Contact:** Mr Paul Schweitzer  
**Job Title:** Co-Founder and Director  
**T:** + 31 10 2140589  
**E:** info@cis-inspections.com  
**W:** www.cis-inspections.com

## CONDUCTIX - WAMFLER AUSTRALIA

14 England St  
 Dandenong  
 VIC  
 3175  
 Australia  
**Contact:** Mr Mark Howlett  
**Job Title:** Managing Director Asia/Pacific  
**T:** + 61 3 9706 8844  
**E:** sales@conductix.com.au  
**W:** www.conductix.com.au  
**F:** + 61 3 9794 9298  
*Conductix-Wampfler is a manufacturer and supplier of Power and Data Transfer equipment including conductor bar, festoon, cable and hose reels, Kabelschlepp cable chain and flexible cable, slip ring assemblies, radio controls, Kiepe conveyor belt monitoring equipment, UEE high voltage connectors and buffers.*

## CONDUCTIX-WAMFLER AMERICAS

10102 F Street  
 Omaha  
 Nebraska  
 NE 68127  
 USA  
**Contact:** Mr Ernesto Heller  
**Job Title:** Market Development Manager, Americas  
**T:** + 1 531 721 0159  
**E:** ernesto.heller@conductix.com  
**W:** www.conductix.us  
**F:** + 1 402 339 9627  
*Leading global supplier of motorized cable reels, cable festoon systems, energy chains, conductor bar, and slip rings to the bulk materials handling and mining industries. We specialize in reliable, customized electrification systems for the most demanding applications. ISO9001:2008 certified.*

## CONDUCTIX-WAMFLER GMBH



Rheinstrasse 27 + 33  
 Weil am Rhein  
 79576  
 Germany  
**T:** + 49 7621 662 0  
**E:** info.de@conductix.com  
**W:** www.conductix.com

**F:** + 49 7621 662 144  
*Conductix-Wampfler specializes in providing reliable solutions for moving machinery and equipment in bulk handling applications. With expertise in power and data transmission solutions, we offer cutting-edge equipment like cable reels, festoon systems, slip rings or conductor rails to maximize productivity, efficiency, and safety.*

## CONTINENTAL

Philipsbornstr. 1, 30165  
 Hannover  
 30165  
 Germany  
**Contact:** Ms Yelda Cicek  
**Job Title:** Marketing Communications EMEA  
**T:** + 90 507 5020207  
**E:** yelda.cicek@continental.com  
**W:** www.continental-industry.com  
*ContiTech Conveyor Belt Group is a leading development partner, manufacturer and system supplier of steel-cable and textile-ply conveyor belts, service materials and special products. In addition, ContiTech provides a worldwide installation and maintenance service.*

## CONTINENTAL CONSTRUCTION (MEMPHIS)

5646 Shelby Oaks Drive  
 Memphis  
 Tennessee  
 38134  
 USA  
**Contact:** Mr Brian Morphis  
**Job Title:** Marketing  
**T:** + 1 901 382 4070  
**E:** mail@continentalconst.com  
**W:** www.continentalconst.com  
**F:** + 1 901 388 2534  
*Continental Construction Company, Inc. is a general contractor specializing in slip form concrete construction, pile driving, structural steel erection, millwright work, marine construction, heavy concrete foundations, industrial buildings, and material handling systems.*

## CONTINENTAL MATADOR RUBBER, s.r.o.

Terezie Vansovej 1054  
 Puchov  
 020 01  
 Slovakia  
**Contact:** Mr Dusan Michalko  
**Job Title:** Marketing Manager  
**T:** + 421 42 461 3050  
**E:** dusan.michalko@matador.sk  
**W:** www.matador.sk  
**F:** + 421 42 461 3365  
*One of the biggest companies in the chemical and rubber industry in the Slovak Republic. Up to 85 % of its production of tyres and conveyor belts is exported. Producer and supplier of textile and steel cord conveyor belts for the mining and construction industries worldwide.*

## CONTROL SYSTEMS TECHNOLOGY PTY LTD

47 Fitzpatrick Street  
 Revesby  
 NSW  
 2212  
 Australia  
**Contact:** Mr Leonard Ian Burrell  
**T:** + 612 8708 0200  
**E:** iburrell@controlsystems.com.au  
**W:** www.controlsystems.com.au/  
**F:** + 612 8708 0280  
*CST design and manufacturer high accuracy belt scale systems designed to provide the customers specified accuracy "in conveyor". CST say "Different Scales for Different Conveyors to achieve the Same Accuracy". Since 1984, CST has remained committed to high integrity, shunning short term*

*commercial game for long term customer satisfaction.*

## CONVEYOR DYNAMICS, INC.

3633 Alderwood Avenue  
 Bellingham  
 Washington  
 98225  
 USA  
**Contact:** Mr Andrew Jennings  
**Job Title:** President  
**T:** + 1 360 671 2200  
**E:** finance@cvdyn.com  
**W:** www.cvdyn.com/  
*CDI designs the longest, strongest, and most advanced belt conveyor systems in the world. Last year we commissioned the world's longest belt conveyor: a 27km conveyor in South Africa. We specialize in detailed mechanical design, software development, and control system.*

## CONVIR JSC

E. Ožeskiėnės g. 10  
 Kaunas  
 LT-44252  
 Lithuania  
**Contact:** Mr Paulius Virbašius  
**Job Title:** Head of Sales  
**T:** + 370 651 11 161  
**E:** info@convir.eu  
**W:** www.convir.eu/  
*CONVIR material handling equipment offers an efficient and reliable material handling solution. It produces customized belt, screw and scraper conveyor systems for transporting bulk products and sorted waste. The main industries it works in are: ports & terminals, quarries, recycling, agriculture, wood & paper, mining & metallurgy and more.*

## COPERION

7901 NW 107th Terrace  
 Kansas City  
 MO  
 64153  
 USA  
**Contact:** Mr Mike Morgan  
**Job Title:** Marketing Manager - Minerals  
**T:** + 1 440 662 8737  
**E:** Mike.morgan@coperion.com  
**W:** www.coperion.com  
*Coperion is an expert in the weighing, conveying and handling of coal. Using a range of equipment including train loading and unloading systems, mechanical conveyors and weighing technologies the movement of the material can be accurately monitored and recorded.*

## COTECNA INSPECTION SA

41 Avenue Peschier  
 Geneva  
 1206  
 Switzerland  
**Contact:** Ms Julie Engelen  
**Job Title:** Head of Global Marketing Communications  
**T:** + 41 22 849 78 44  
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**W:** www.cotecna.com/

## CPS PROJECTS (PTY) LTD

PO Box 47261  
 Greyville  
 Durban  
 KZN  
 4023  
 South Africa  
**Contact:** Mr Banzi Majola  
**Job Title:** Managing Director  
**T:** + 27 31 466 4396  
**E:** banzi@cpsprojects.co.za  
**W:** cpsprojects.co.za  
**F:** + 27 31 466 4399  
*Port related services offered by CPS Projects as ff:-*  
 -Maintenance Scales for Different Conveyors to achieve the Same Accuracy". Since 1984, CST has remained committed to high integrity, shunning short term

*-Ad-hoc repairs (accident damage and component failure)  
 -Supply of Spare Parts  
 -Erection and Commissioning of new equipment*

## CRANES MACHINERY Co. Ltd (CMC)

CMI China Office  
 No.8-20 Shunyuan Road  
 Xinchun Industrial Park  
 Xuejia  
 Changzhou  
 Jiangsu  
 China  
**Contact:** Mr Kaison Xu  
**Job Title:** Manager  
**E:** info@craneschina.cn  
**W:** www.craneschina.cn  
**F:** + 86 519 8188 6887

## CROMEX MAKINE VE Dis TICARET LTD. STI.

Ayşe Cavus Caddesi No: 17/1  
 Süadiye  
 İstanbul  
 34740  
 Turkey  
**Contact:** Mr Ozan Ozkan  
**Job Title:** General Manager  
**T:** + 90 216 415 47 00  
**E:** info@cromexgrab.com  
**W:** www.cromexgrab.com  
**F:** + 90 216 417 47 65

## CRS - CONTAINER ROTATION SYSTEMS PTY LTD



18 Sleigh Place  
 Wetherill Park  
 Sydney  
 NSW  
 2164  
 Australia  
**Contact:** Mr Murray Bridle  
**Job Title:** Managing Director  
**T:** + 61 0412469549  
**E:** sales@Rotainer.com  
**W:** www.Rotainer.com  
*CRS, Specialises in the custom design of Container Rotators and Container Tilting Systems.*

## CSSC HUAHAI MARINE EQUIPMENT Co., Ltd

18th Floor  
 3255 Zhou Jia Zui Road  
 Shanghai  
 200093  
 China  
**Contact:** Mr Lian Zhou Yang  
**Job Title:** Business Development Manager  
**T:** + 86 21 6539 8257  
**E:** info@tts-huahai.com  
**F:** + 86 21 6539 7400

## CST COVERS

498 N Loop 336 E  
 Conroe  
 Texas  
 77301  
 USA  
**Contact:** Mrs Kimberly Mathis  
**Job Title:** Global Marketing Director  
**T:** + 1 713 351-3769  
**E:** kmathis@cstindustries.com  
**W:** www.cstcovers.com  
**F:** + 1 936 539 5355  
*Founded in 1964 the company designs, manufactures and erects architectural and environmental enclosures. These are primarily clear-span domes and related space frames fabricated mostly from aluminium. Structures are used for covering tankage and bulk storage facilities of all types and shapes.*

## CST STORAGE

903 E 104th Street, Suite 900  
 Kansas City  
 MO  
 64131  
 USA  
**Contact:** Mr David Wheat  
**Job Title:** Director  
**T:** + 1 913 621 3700  
**E:** sales@cst-storage.com  
**W:** www.cstindustries.com  
**F:** + 1 913 621 2145  
*Formerly Columbian TecTank, the world's largest manufacturer of factory-coated bolted and welded tanks for dry bulk storage. Flat-bottomed tanks and hopper bottom silos with capacities up to 13,200 cubic meters. ISO Certified.*

## CWA ENGINEERS INC.

#380 - 2925 Virtual Way  
 Vancouver  
 BC  
 V5M 4X5  
 Canada  
**Contact:** Mr David Lidder  
**Job Title:** Business Development Manager  
**T:** + 1 604 637 2275  
**E:** dave.lidder@cwaengineers.com  
**W:** www.cwaengineers.com  
**F:** + 1 604 637 2276  
*CWA is a multidisciplinary EPCM firm that provides professional services including planning, engineering, procurement, construction management, and maintenance and operations support to industry-leading clients in the bulk materials handling, mining and mineral processing, and ports and marine terminals sectors.*

## DALIAN CIMC SPECIAL LOGISTICS EQUIPMENT Co., LTD

Dalian Free Trade Zone IIIB-2  
 Dalian  
 116600  
 China  
**Contact:** Ms Ping Yang  
**Job Title:** Marketing Manager  
**E:** ping.yang520800@gmail.com  
**W:** www.dcle.cn

## DALIAN HUARUI HEAVY INDUSTRY INTERNATIONAL CO. LTD

No 169 Bayi Road  
 Xigang District  
 Dalian  
 Liaoning  
 116013  
 China  
**Contact:** Mr Wang Cong  
**Job Title:** Project Manager  
**T:** + 86 411 86852895  
**E:** wangchang@dhidcw.com  
**W:** www.dhhi.com.cn/  
**F:** + 86 411 86852398

## DALIAN START ENGINEERING Co LTD

No584 Zhongshan Road  
 Shahekou Dist  
 Dalian  
 Liaoning  
 116021  
 China  
**Contact:** Mr Wenliang Lan  
**Job Title:** Deputy General Manager  
**T:** + 86 1355915570  
**E:** lanwenliang@dlstarteng.com  
**W:** www.dlstarteng.com  
**F:** + 86 13555915570  
*More than 20 years of experience in bulk material handling system. Our expertise, your success.*

## DANA INDUSTRIAL

Via Luciano Brevini 1/A  
 Reggio Emilia  
 42124  
 Italy  
**Contact:** Ms Sara Marmiroli  
**Job Title:** Global Marketing and

Communication Manager  
**T:** + 39 0522 505811  
**E:** sara.marmiroli@dana.com  
**W:** www.dana-industrial.com  
*PIV Drives, a company of Dana, has 90 year experience in providing quality power transmission solutions for every industry sector. PIV Drives developed modular concepts for its comprehensive product range, providing the flexibility to deliver high-quality optimised solutions, both standard and bespoke, quickly and at competitive cost.*

## DCL, INCORPORATED



08660 Ance Road  
 Charlevoix  
 MI  
 49720  
 USA  
**Contact:** Mr Kyle Smith  
**T:** + 1 231 547 5600 Ext 3124  
**E:** sales@dclinc.com  
**W:** www.dclinc.com  
**F:** + 1 231 547 3343  
*Provides full dust control loading systems and partial components to the bulk material handling industry and designs custom equipment. A complete Research/Development team is located on site. Single source manufacturing from ship loading systems to valves and dust collectors can be provided.*

## DE REGT CONVEYOR SYSTEMS

Ijzendijkseweg 5  
 Biervliet  
 Zeeland  
 4521 GX  
 The Netherlands  
**Contact:** Mr Peter De Regt  
**Job Title:** Director  
**T:** + 31 115 456 200  
**E:** peter@deregt.com  
**W:** www.deregt.com  
**F:** + 31 115 481 234  
*De Regt is a company specialized in developing, building and installing conveyor systems and structures needed to achieve a partial or total project.*

## DELLNER BUBENZER GERMANY GMBH

Friedrichshüttenstraße 1  
 Kirchen-Wehbach  
 RLP  
 57548  
 Germany  
**Contact:** Ms Kateryna Prykhodko  
**Job Title:** Marketing Manager  
**E:** kateryna.prykhodko@dellnerbubenzner.com  
**W:** www.dellnerbubenzner.com  
*DELLNER BUBENZER is a global leader in innovative, precision-engineered braking systems, offering customized stop-action solutions for industries worldwide. Our product range includes industrial brakes, monitoring systems, couplings, and safety solutions for maximum protection and performance.*

## DELTA DUCON

11 General Warren Blvd  
 Malvern  
 Pennsylvania  
 19355  
 USA  
**Contact:** Mr Matt Delpizzo  
**Job Title:** VP  
**T:** + 1 610 695 9700  
**E:** sales@DeltaDucon.com  
**W:** www.deltaducon.com/  
**F:** + 1 610 695 9724  
*Delta Ducon is a leading manufacturer and supplier of Material Handling Systems & Components. Delta Ducon product lines dates back to the early 1920's and is established as a leading supplier of systems and components for dry bulk materials.*



## DEMAG CRANES & COMPONENTS GMBH

Benefit recipient: Gottwald Port Technology  
Forststrasse 16  
Düsseldorf  
D-40597  
Germany  
**Contact:** Mr Reiner Derhardt  
**Job Title:** Project Manager  
**T:** + 49 2335 92 7442  
**E:** reiner.derhardt@demagcranes.com  
**W:** www.demagcranes.com  
**F:** + 49 2335 92 7676

## DeMarco Industrial Vacuum Corporation

PO Box 1138  
Crystal Lake  
IL  
60039-1138  
USA  
**Contact:** Mr Thomas DeMarco  
**Job Title:** President  
**T:** + 1 815 344 2222  
**E:** Sales@DeMarcoVacuums.com  
**W:** www.DeMarcoVacuums.com  
**F:** + 1 815 344 2223  
*Manufactures a complete line of heavy duty DEMARCO Industrial Vacuum Systems and for all flowable materials, wet or dry, etc. Units are available in portable, stationary, towable, central turnkey installed systems, canister vacuums, and custom engineered systems.*

## DEMCO TECH ENGINEERING

Modderhouse  
Moddercrest Office Park  
1 High Street  
Modderfontein  
Johannesburg  
Gauteng  
1645  
South Africa  
**Contact:** Mr Paul van de Vyver  
**Job Title:** General Manager  
**T:** + 27 11 608 4355  
**E:** info@DemcoTECH.com  
**W:** www.DemcoTECH.com  
**F:** + 27 11 608 4251  
*DemcoTECH, a multi disciplinary Engineering and Project management company specialising mainly in Bulk Materials handling, but also small process plants. Based in South Africa, work is performed internationally and varies from consulting type studies to the execution of Turnkey projects.*

## DEN BAKKER DUSTCRUSTING TECHNOLOGY B.V.

Christiaan Huygensweg 2  
Hellevoetsluis  
Zuid Holland  
3225 LD  
The Netherlands  
**Contact:** Mr J.A.A. den Bakker  
**Job Title:** CEO  
**T:** + 31 181 399 632  
**E:** j.d.bakker@denbakker.nl  
**W:** www.dbdglobal.com  
*Den Bakker Dustcrusting technology b.v. ( dbd global ), is an expert in dust control and prevention with the Dustcruster® technology. Dustcruster is far better than continuously spraying and waste pure water. Dustcruster® creates a long-lasting and clearly visible white crust which will last for a long time. Even in tough atmospheric conditions.*

## DEUTSCHE GROSSWÄLZLAGER GMBH

Marieneher Strasse 17  
Rostock  
MV18069  
Germany  
**Contact:** Mr Andreas Wiedenhoef  
**Job Title:** Head of Sales  
**T:** + 49 381 4407 10 31

**E:** info@dgwl.de  
**W:** www.dgwl.de  
**F:** + 49 381 4407 10 931

## DISAB VACUUM TECHNOLOGY AB

Akermans väg 24  
Box 170  
Eslöv  
241 23  
Sweden  
**Contact:** Mr Etienne de Terrason  
**Job Title:** Head of Marketing  
**T:** + 46 79 349 51 51  
**E:** etienne.deterrason@disab.com  
**W:** www.disab.com  
*DISAB is on the forefront when it comes to vacuum technology and how to apply it in various industrial settings to keep dust, dirt, and spillages away.*

## DOME TECHNOLOGY, LLC

4946 North 29th East  
Idaho Falls  
ID  
83401  
USA  
**Contact:** Miss Rebecca Pyper  
**Job Title:** Marketing Director  
**T:** + 1 208 569 8557  
**E:** rebecca.pyper@dometechnology.com  
**W:** www.dometechnology.com  
*Other equipment: Serve the biomass, power, mining, cement, fertilizer, and grain markets. We provide geotechnical analysis, deep foundation solutions, engineered tunnels. Integrate material handling safety protocols with dome design. Concrete domes are designed to contain volatile products as well as cover products.*

## DON VALLEY ENGINEERING Co LTD

Sandall Stones Road  
Doncaster  
DN3 1QR  
UK  
**Contact:** Mr Roger Allen  
**Job Title:** Managing Director  
**T:** + 44 1302 881188  
**E:** sales@donvalleyeng.com  
**W:** www.donvalleyeng.com  
**F:** + 44 1302 881000

## DONALDSON EUROPE

**B.V.**  
Research Park Building No. 1303  
Interleuvenlaan 1  
Leuven  
B-3001  
Belgium  
**Contact:** Mr Michel Reichert  
**Job Title:** Head of Marketing – Industrial Solutions EMEA  
**T:** + 32 16 38 38 11  
**E:** iaf-europe@donaldson.com  
**W:** www.donaldson.com/

## DONALDSON FILTRATION DEUTSCHLAND GMBH

Industriestraße 11  
Dülmen  
48249  
Germany  
**T:** + 49 2594 781 0  
**E:** IAF-de@donaldson.com  
**W:** www.DonaldsonToritDCE.com  
**F:** + 49 2594 781 21  
*Donaldson is a leading worldwide provider of filtration systems that improve people's lives, enhance our Customers' equipment performance, and protect our environment. We are committed to satisfying our Customers' needs for filtration solutions through innovative research and development, application expertise, and global presence.*

## DOPPELMAYR TRANSPORT TECHNOLOGY GMBH

Konrad-Doppelmayr-Str. 1  
Wolfurt  
Vorarlberg  
6922  
Austria  
**T:** + 43 5574 604 1800  
**E:** dtt@doppelmayr.com  
**W:** www.doppelmayr-mts.com  
*Doppelmayr Transport Technology solves all transport issues in the field of bulk materials and unit loads with a range of sophisticated material transport systems - from well-proven material ropeways to innovative long-distance conveyor systems for challenging terrains.*

## DOS SANTOS INTERNATIONAL, LLC

531 Roselane Street NW  
Suite 810  
Marietta  
GA  
30060  
USA  
**Contact:** Mrs Amy D. Duncan  
**Job Title:** Marketing Manager  
**T:** + 1 770 423 9895  
**E:** info@dossantosintl.com  
**W:** www.dossantosintl.com  
*Other Equipment: DSI ExConTec - conveyor analysis software. Dos Santos International is the world's foremost authority on high-angle conveying technology. We offer the DSI Sandwich belt high angle conveyor, the most reliable high-angle and vertical conveying means for your high tonnage, high lift requirements. DSI also offers engineering consulting and provides in house software for load analysis.*

## DRY-BAG A/S

Odinsvej 21  
Hedensted  
DK 8722  
Denmark  
**Contact:** Mr Lasse Rude  
**Job Title:** Marketing  
**T:** + 45 86 19 0500  
**E:** production@dry-bag.com  
**W:** www.desiccant.com  
**F:** + 45 86 19 0577  
*Desiccants and cargo security equipment.*

## DSM SHIPBROKERS / SHIPTRADE

**DSM Shipbrokers**  
Loberingemaat 5-d  
Meppel  
Drenthe  
7942 JD  
The Netherlands  
**Contact:** Mr Michael Beyer  
**Job Title:** Managing Director/S&P Broker  
**T:** + 31 646 222111  
**E:** dsm@shiptrade.nl  
**W:** https://shiptrade.nl/  
*We sell exclusively new floating bulk handling lemniscate cranes, seagoing, classed by LR for 24/7 offshore bulk transshipment operations. Besides new floating cranes, we also trade all other floating crane brands on the secondhand market, eg Liebherr, Gottwald, MacGregor, PLM, Ganz Danubius etc. If you want to buy or sell a floating bulk handling crane, please contact us.*

## DURO FELGUERA, S.A.

Parque Científico y Tecnológico de Gijón  
c/ Ada Byron, 90  
Gijón  
Asturias  
33203  
Spain  
**Contact:** Mr Angel Pelegry

**Job Title:** Sales Director DF Mining & Handling  
**T:** + 34 985 199 202  
**E:** dfmh@durofelguera.com OR angel.pelegry@durofelguera.com  
**W:** www.durofelguera.com/en/  
**F:** + 34 985 199 059  
*DF Mining & Handling is the DF division specialised in turnkey projects for Mineral Processing and Bulk Material Handling Facilities, mainly Concentration Plant and Loading and Unloading Terminals at Ports. The company assists customers and investors in all phases of a project: feasibility studies, design, detailed engineering, procurement, construction, commissioning and operation and maintenance of the facility and it's recognised on a global scale as a reputable EPC contractor.*

## DUST SOLUTIONS INC

103 Industrial Village Road  
Beaufort  
SC  
29906  
USA  
**Contact:** Mr Richard Posner  
**Job Title:** President  
**T:** + 1 843 846 3700  
**E:** sales@nodust.com  
**W:** www.nodust.com  
**F:** + 1 843 846 3701  
*Manufacturers Dry Fog Dust Suppression Systems for bulk material handling - conveyors, truck & rail dumps, hoppers, feeders, crushers, ship loaders/unloader. Modular systems produce fog droplets that attach to like size airborne dust particles. Functions in below freezing temperatures. DustTamer Windfence Systems for stockpiles.*

## E-CRANE WORLDWIDE

Koekoeklaan 53  
Adegem  
Oost Vlaanderen  
B-9991  
Belgium  
**Contact:** Mr Lieven Bauwens  
**Job Title:** CEO  
**T:** + 32 93 780 444  
**E:** lieven.bauwens@e-crane.com  
**W:** www.e-crane.com  
*E-Crane offers the E-Crane (Equilibrium Crane) in capacities ranging from 5.5 to 50 tons (metric) tons and outreach ranging from 24.8 to 47.8 metres (82 to 157 feet) for efficient offloading of bulk commodities through its subsidiaries in Europe, the Americas and Asia.*

## EDGE INNOVATE. (NI) LTD

30 Farlough Road  
Newmills  
Dungannon  
County Tyrone  
BT71 4DT  
Northern Ireland  
**Contact:** Mr Lee Williamson  
**Job Title:** Global Sales Manager  
**T:** + 44 2887 740525  
**E:** info@edgeinnovate.com  
**W:** https://edgeinnovate.com/  
**F:** + 44 2887 747244  
*Edge Innovate are a blue sky thinking, imaginative and creative equipment manufacturing company. With our ethos of "Innovation at Work" EDGE persist in pushing the boundaries of design and manufacturing to produce hard working, quality machinery to fit any materials handling requirement from recycling, material handling to quarrying.*

## EFM DESIGN SERVICES PVT LTD

New No 25, Old No 12, 1st Floor  
Kamaraj Avenue 2nd Street  
Adyar  
Chennai  
Tamil Nadu  
600020  
India  
**Contact:** Dr Sricharan Srinath  
**Job Title:** Director  
**T:** + 91 7358445064

**E:** sricharansrinath@efmdesign.co.in

## EGIS PORTS

15 avenue du Centre  
CS 20538  
Guyancourt – Saint Quentin en Yvelines  
78286  
France  
**Contact:** Mr Sylvain Bourgois  
**Job Title:** Head of Port Development  
**T:** + 33 1 3941 4017  
**E:** sylvain.bourgois@egis.fr  
**W:** www.egis-group.com/  
*Egis Ports' activity covers all stages of ports and dedicated terminals, inland waterways, logistic hubs and coastal development, from feasibility and conceptual studies to works supervision. Major capabilities in masterplanning, Construction planning and Engineering and consulting, environmental studies, project management.*

## EKA CTRM SOLUTIONS PTY LTD

2202, Level 2, 25 Grenfell Street  
Adelaide  
South Australia  
5000  
Australia  
**Contact:** Ms Urs Sijana  
**Job Title:** Vice President of Bulk Handling Solutions  
**T:** + 1 618 8444 5900  
**E:** info@eka1.com  
**W:** https://eka1.com/  
*A stockyard management solution built specifically for your raw material and bulk commodity business. Control your terminal operations with maximum visibility, execute operations autonomously to maximize throughput, and improve site efficiency with unprecedented accuracy for better inventory and quality tracking.*

## ELECON ENGINEERING COMPANY LTD

Post Box # 6  
Anand Sojitra Road  
Vallabh Vidyanagar  
Gujarat  
388 120  
India  
**Contact:** Mr Paresh Vyas  
**Job Title:** Corporate Communications  
**T:** +91-2692-237016 / 230166 (MHE)  
**E:** info@elecon.com  
**W:** www.elecon.com  
*Elecon since established in 1951, apart from Power Transmission Products, provides engineered solutions, manufactures and supplies Bulk Material Handling Plants and Equipments for the core sector industries which includes power, steel, cement, fertilizer, port mechanisation and open cast mines in India and Abroad.*

## ELECON SINGAPORE PTE LTD.

10, Anson Road  
#10-11  
International Plaza  
Singapore  
079903  
Singapore  
**Contact:** Mr Vipul Shah  
**Job Title:** Director  
**T:** + 65 68759262  
**E:** vipul@elecon.com  
**W:** www.elecon.com

## ELETTROTEK KABEL S.p.A.

Via Tondelli n°10  
Bagnolo in Piano (RE)  
42011  
Italy  
**Contact:** Mrs Valentina Magnani  
**Job Title:** Marketing  
**T:** + 39 0522 956001  
**E:** valentina.magnani@eletrotekkabel.com

**W:** www.elettrotekkabel.com/  
**F:** + 39 0522 951851

## EMG AUTOMATION GMBH

Industriestraße 1  
Wenden  
D-57482  
Germany  
**Contact:** Mr Uwe Wurster  
**Job Title:** Head of Business Unit Drive Solutions  
**T:** + 49 27 62/6 12 322  
**E:** Uwe.wurster@emg-automation.com  
**W:** www.emg-automation.com/en/  
**F:** + 49 27 62/6 12 237

## EMICONTROLS

Via Copernico 6 A  
Bozano  
I-39100  
Italy  
**Contact:** Ms Anja Höller  
**Job Title:** Marketing Manager  
**E:** Anja.Hoeller@emicontrols.com  
**W:** www.emicontrols.com/

## EMS-TECH INC

  
699 Dundas Street West  
Belleville  
Ontario  
K8N 4Z2  
Canada  
**Contact:** Mr Kyle Sorensen  
**Job Title:** Director, Business Development, Marine System Sales  
**T:** + 1 613 966 6611  
**E:** sales@ems-tech.net  
**W:** www.ems-tech.net  
**F:** + 1 613 966 6710  
*A multi-task, multi-discipline company specialising in design and supply of dry bulk material handling equipment, both mobile and stationary; including custom designed conveyors, belt elevators, receiving hoppers, storage/load-out systems, environmental controls, shiploaders, stackers and reclaimers, transhippers, self-unloading ships.*

## ENBL (KUNSHAN) MACHINERY Co. LTD

No. 235 Weijing Road  
Qiandeng Town  
Suzhou Kunshan City  
Jiangsu  
215343  
China  
**Contact:** Mr Lewis Xu  
**Job Title:** Sales Manager  
**T:** + 86158 5029 9769  
**E:** sales@enbl-grabs.com  
**W:** www.enbl-grabs.com/  
*ENBL (established in November 2013) is located in the Yangtze River Economic Friendly Frontier - Kunshan along the Shanghai industry. It is the biggest professional grab manufacturer in China. Through resource integration and professionals in the field, the company has a manufacturing advantage and offers services such as design, manufacture, sales and technical support.*

## ENDURIDE

1880 Provinciale Street,  
Quebec  
G1N 4A2  
Canada  
**Contact:** Mr Roberto Patino  
**Job Title:** Chief Executive Officer  
**T:** + 1 418 266 7777  
**E:** sales@enduride.com  
**W:** www.enduride.com/

## ENGICON NV (GELDOF)

Broelstraat 20  
Harelbeke  
B-8530  
Belgium  
**Contact:** Mr Pieter Van Acker  
**Job Title:** Chief Commercial Officer  
**T:** + 32 56 73 21 21



E: sales@geldof.com  
W: www.geldof.com  
*Offers complete solutions in bulk handling systems. Product range includes silos with extraction systems, discharge hoppers, pressure vessels and storage tanks, conveyor belts, screw conveyors, chain conveyors, bucket elevators.*

## ENGINEERING SERVICES HAMBURG

Brünschentwiete 58 c  
Hamburg  
22559  
Germany  
**Contact:** Mr Mario Rämmele  
**Job Title:** CEO  
T: + 49 172 414 38 36  
E: rm@engservhamburg.com  
W: www.engservhamburg.com

## ENGINEERING SYSTEM SOLUTIONS, ES2

4943 N 29th E  
Suite A  
Idaho Falls  
ID  
83401  
USA  
**Contact:** Mr Adam Aagard  
**Job Title:** Project Manager  
T: + 1 208 552 9874  
E: adam.aagard@es2eng.com  
W: www.es2eng.com

## EPN SOLUTIONS

Karl Grankvist 1C  
Piteå  
SE-941 52  
Sweden  
**Contact:** Mr Mattias Öman  
**Job Title:** Managing Director  
T: + 46 70 371 15 30  
E: mattias.oman@epnsolutions.se  
W: http://epnsolutions.se/

## EQUIPO LLC

P.O.Box : 64624  
DEIRA  
Dubai  
64624  
UAE  
**Contact:** Mr Dharmaraju Sundaram  
**Job Title:** Marketing Manager  
T: + 971 55 473 6204  
E: sales@equipollc.com/  
W: www.equipollc.com/  
F: + 971 4 288 2217  
*We are one of the suppliers of grabs in PG & Indian Subcontinent. All our grabs are radio remote controlled varying from 5 to 12 cbm. Grabs can be supplied on short term and long term rentals.*

## ERIEZ

2200 Asbury Road  
Erie  
PA  
16506  
USA  
**Contact:** Mr Corry Lino  
**Job Title:** Global Marketing Manager  
T: + 1 814 835 6000  
E: clino@eriez.com  
W: www.eriez.com/  
*Eriez, a world authority in separation technologies is a one-stop solution thanks to its range of magnetic separators, metal detectors, feeders, wet drums and other processing equipment, particularly suited to the mining, aggregate and coal processing sector.*

## ESCH GROUP BV

Veerweg 14  
Hoom  
5145 NS  
The Netherlands  
**Contact:** Mr Evert van Esch  
**Job Title:** Sales Director  
T: + 31 416 315656  
E: info@eschgroup.nl  
W: www.eschgroup.nl/home  
*A manufacturer (production) of transport rollers, drive and tension drums and import bearings and bearing blocks.*

## ESI EUROSILLO BV

Newtonstraat 26-28  
Purmerend  
1446 VR  
The Netherlands  
**Contact:** Mr Richard Spaargaren  
**Job Title:** Commercial Director  
T: + 31 299 630 730  
E: sales@eurosilo.com  
W: www.eurosilo.com  
F: + 31 299 630 737  
*Other Equipment: Mammoth silo systems. Active in the field of design construction and/or turnkey delivery of large scale enclosed storage systems for coal, FGD-gypsum, limestone, minerals, basic chemicals and potato starch. Storage capacity of this flat bottom mammoth silo system (Eurosilo) can range from 1,000 up to 100,000 m3 per unit.*

## ESL POWER SYSTEMS, INC.

2800 Palisades Drive  
Corona  
CA  
92878-9427  
USA  
**Contact:** Mr Michael Hellmers  
**Job Title:** Chief Sales Strategist  
T: + 1 951 739 7000  
E: info@eslpwr.com  
W: https://eslpwr.com/

## EUROMEC S.R.L.

Via Visano 78/80  
Isorella  
BS  
25010  
Italy  
**Contact:** Mr Alessandro Gervasio  
**Job Title:** Head of Sales and Co-owner  
T: + 39 3911297003  
E: gervasio@euromecsr.it  
W: https://euromecsr.it/

## EURO-TRAMCO BV

Spacelab 47 D  
Amersfoort  
3824MR  
The Netherlands  
**Contact:** Mr Hans Plekkenpol  
T: + 31 33 4567033  
E: sales@tramco-europe.com  
W: www.tramcoinc.com  
F: + 31 33 4558149  
*Manufactures chain, screw and bucket conveyors and 'Aerobelt' air-supported belt conveyor systems.*

## EXCEL MACHINERY

P.O. Box 31118  
Amarillo  
TX  
79120  
USA  
**Contact:** Mr Clay Stallings  
T: + 1 806 679 9213  
E: cstallings@excelmach.com  
W: https://excelmach.com/

## F. HARLEY & Co. PVT. LTD.

5 Rameswar Shaw Road  
Kolkata  
West Bengal  
700014  
India  
**Contact:** Mr Nirav Shah  
**Job Title:** Dy. Managing Director  
T: + 91 9831014931  
E: nirav\_shah@harleygrp.com  
W: www.harleygrp.com  
F: + 91 22897919  
*Pioneers in the introduction of Dust Suppression Systems in India. F. Harley specializes in providing customized dust control containment and control solutions for bulk material handling applications and conducting plant assessments backed with the experience of over 35 years.*

## FABTECH

## INTERNATIONAL LTD

PO Box 61015  
Jebel Ali Freezone  
Dubai

UAE  
**Contact:** Mr Murali Ganesan  
**Job Title:** VP PROJECTS  
T: + 971 4 883 8833  
E: info@fabtech.ae  
W: www.fabtechintl.com/  
F: + 971 4 883 5126

## FAM MINERALS & MINING GMBH

Sudenburger Wuhne 47  
Magdeburg  
Sachsen-Anhalt  
D-39112  
Germany  
**Contact:** Mr Alexander Tigges  
**Job Title:** Director Global Sales  
T: + 49 391 6380 0  
E: fam@BEUMER.com  
W: www.fam.de  
*FAM successfully plans, designs, constructs and manufactures turnkey equipment for extracting, producing, loading and storing bulk materials. FAM combines know-how of series and customized production processes and offers a complete range of manufacturing services including after-sales services along with engineering.*

## FAMAK SA

ul. Fabryczna 5  
Kluczbork  
POL 46-200  
Poland  
**Contact:** Mr Robert Rulkiewicz  
**Job Title:** Chairman of the board  
T: + 48 77 40 70 100  
E: famak@famak.com.pl  
W: www.famak.pl  
F: + 48 77 418 15 45  
*Over 60 years experience as manufacturers of transport-hoisting equipment. Highly qualified technical engineering staff have interdisciplinary knowledge and experience and design-development base, implementing the highest technical level of offered products. Products designed according to individual needs and installed on-site. Full service after installation.*

## FENNER DUNLOP AMERICAS

200 Corporate Center Drive  
Suite 220  
Coraopolis  
PA  
15108  
USA  
**Contact:** Mr Chris King  
**Job Title:** National Sales Director  
T: + 1 307 670 3361  
E: chris.king@fennerdunlop.com  
W: www.fennerdunlopamericas.com

## FENNER DUNLOP CONVEYOR BELTING

Oliemolenstraat 2  
PO Box 14  
Drachten  
9200 AA  
The Netherlands  
**Contact:** Mr Andries Smilda  
**Job Title:** Sales & Marketing Director  
T: + 31 512 585 446  
E: info@dunlopccb.com  
W: www.fennerdunlopemea.com  
F: + 31 512 585 433  
*Manufactures a full range of textile, aramid and steelcord conveyor belting systems.*

## FENNER DUNLOP CONVEYOR BELTING EUROPE

Marfleet  
Hull  
Yorkshire  
HU9 5RA  
UK  
**Contact:** Mr Jim Jones  
**Job Title:** Managing Director  
T: + 44 1482 785450  
E: jim.jones@fennerdunlop.com  
W: www.fennerdunlop.com  
F: + 44 1482 785438  
*Fire-resistant, solid-woven*

*conveyor belting, with rubber or PVC covers, is manufactured to all major national safety standards. Supplied to all major underground materials handling and extraction industries and to other coal handling operations where safety and economy are major criteria.*

## FENNER PLC

Hesslewood Country Office Park  
Ferriby Road  
Hessle  
East Yorks  
HU13 0PW  
UK  
**Contact:** Mr David Fowler  
T: + 44 1482 626 500 / 523  
E: david.fowler@fennerdunlop.com  
W: www.fenner.com  
F: + 44 1482 626522

## FLENDER GMBH

Alfred Flender Strasse 77  
FLE ST&MK  
Bocholt  
D- 46395  
Germany  
**Contact:** Mr Hans-Jürgen Thebert  
**Job Title:** Marketing  
T: + 49 172 5886250 / + 49 2871 920  
E: hans-juergen.thebert@flender.com  
W: www.flender.com

## FLEXCO

2525 Wisconsin Avenue  
Downers Grove  
IL  
60515-4200  
USA  
**Contact:** Ms Kelly Clancy  
**Job Title:** Public Relations Specialist  
T: + 1 630 971 0150  
E: kclancy@flexco.com  
W: www.flexco.com  
F: + 1 630 971 1180  
*Flexco, a manufacturer of products that enhance belt conveyor productivity, serves customers across the globe with efficient and safe products, services, and solutions. Flexco is able to address almost any challenge - from slippage and spillage, to mistracking and wear and tear, to safety and environmental concerns.*

## FLEXCO EUROPE GMBH

Maybachstraße 9  
Rosenfeld  
D-72348  
Germany  
**Contact:** Mr Joerg Schairer  
**Job Title:** Managing Director  
T: + 49 7428 94060  
E: europe@flexco.com  
W: www.flexco.com  
F: + 49 7428 9406260  
*Mechanical conveyor belt fastening systems and accessories; belt cleaning systems; ceramic lagging; maintenance tools.*

## FLEXICON CORPORATION

2400 Emrick Blvd  
Bethlehem  
PA  
18020-8006  
USA  
**Contact:** Mr Dan Capwell  
**Job Title:** Senior Advertising Specialist  
T: + 1 610 814 2400 x10611  
E: sales@flexicon.com  
W: www.flexicon.com/  
F: + 1 610 814 0600

## FOGCO SYSTEMS, INC.

600 South 56th Street  
Chandler  
AZ  
85226  
USA  
**Contact:** Mr Dana Pack  
**Job Title:** Vice President Sales  
T: + 1 800 607 6478  
E: danap@fogco.com  
W: https://fogco.com/

## FRIGATE TEKNOLOGIES

## PRIVATE LIMITED

A-1550, 2nd Floor  
Green Field Colony  
Faridabad  
Haryana  
121 003  
India  
**Contact:** Mr Ajay Hooda  
T: + 91 129 2511662  
E: marketing@frigate.in  
W: www.frigate.in  
F: + 91 1166173981

## FWS GROUP

275 Commerce  
Winnipeg  
Manitoba  
R3P1B3  
Canada  
**Contact:** Mr Martin Bima  
**Job Title:** Engineer  
T: + 1 204 223 8542  
E: mbima@fwsgroup.com  
W: fwsgroup.com

## GAMA ENDUSTRI TESISLERI IMALAT VE MONTAJ AS

Narcissus Street No: 9, 06 520  
Söğütözü  
Ankara  
06540  
Turkey  
**Contact:** Mr Mehmet Artun  
**Job Title:** General Manager  
T: + 90 312 248 42 00  
E: industry@gama.com.tr  
W: www.gama.com.tr  
F: + 90 312 4094360  
*Other Equipment: Apron feeders, Air slides, Scrapers. One of Turkey's most prestigious leading contracting companies, with experience in constructing industrial and power plants, dams, pipelines, infrastructures and similar. Established in 1959, with clients worldwide, has completed more than 200 significant sized projects internationally.*

## GAMBAROTTA GSCHWENDT SRL

Via del Brennero, 316  
Trento  
Trento  
38121  
Italy  
**Contact:** Mr Davide Gambarotta  
**Job Title:** CEO  
T: + 39 0461 920 403  
E: gambarotta@gambarotta.it  
W: www.gambarotta.it/  
*Design and manufacturing of bucket elevators, pan conveyors, drag chain conveyors, extractors and feeders, palletized product loaders, gate valves, cell feeders, flap valves and screw conveyors used in petrochemical, cement, coal, waste to energy plants and for power generation, steel and heavy industry applications. Other equipment: Sizer, crusher, plow feeder, roller screen, slide gates, spare parts, rotary valves, diverters, expansion joints, transloaders, air slides.*

## GANZ DANUBIUS HUTI KFT

Vadász utca 47.  
Tatabánya  
2800  
Hungary  
**Contact:** Mr Attila Sasvari  
**Job Title:** Senior Naval Architect  
T: +36 70 528 8751  
E: info@ganzdanubius.eu  
W: ganzdanubius.eu  
*Suppliers of level luffing harbour grab cranes, floating grab cranes and other bulk handling equipment.*

## GBS COLOMBIA SAS

MZ 5 CS 129, BOD 1,  
GUADALCANAL  
PEREIRA  
Risaralda

660006  
Colombia  
**Contact:** Mr Johny Correa  
**Job Title:** CEO  
T: + 57 301 1144826  
E: info@gsbcolombia.com  
W: https://gsbcolombia.com/  
*We are a company providing solutions for material transport through conveyor belt systems, equipment as telestackers, conveyor belts, accessories, and tech about conveyor belt.*

## GENERAC MOBILE PRODUCTS SRL

Via Stazione, 3 Bis  
Villanova d'Ardenghi  
Pavia  
27030  
Italy  
E: gmp.srl@generac.com  
W: www.towerlight.com/dust-fighters/  
*Generac Mobile is a manufacturer of mobile lighting towers, dust control units, power generating sets and battery energy storage systems. Founded in 1997, the Italian company is part of the Generac Power Systems group and operates globally.*

## GENERAL KINEMATICS

5050 Rickert Rd  
Crystal Lake  
IL  
60014  
USA  
**Contact:** Mr Gordon Frank  
**Job Title:** VP Sales & Marketing  
T: + 1 815 455 3222  
E: info@generalkinematics.com  
W: www.generalkinematics.com  
F: + 1 815 455 2285

## GEO - CHEM LABORATORIES PRIVATE LIMITED

Geo - Chem House  
294 Shahid Bhagat Singh Road,  
Fort  
Mumbai  
Maharashtra  
400 001  
India  
**Contact:** Mr Subhashis Chakraborty  
**Job Title:** Director Minerals & Metals  
T: + 91 22 663 83838 / 99 300 68937  
E: s.chakraborty@geochem.net.in  
/anisa.s@geochem.net.in  
W: www.geochem.net.in  
F: + 91 22 663 83800  
*Geo Chem Laboratories PVT Ltd is the leading Commodity Third party Inspection & Testing Company. Our core expertise is inspection, testing and certification of commodities like various Coal, Coke, Minerals, Ores, Metals, Ferro Alloys, Non Ferrous, Fertilizers, Agri commodities, Petroleum Products, pharmaceutical, Oil & Gas, etc many more.*

## GEOMETRICA INC

**Geometrica®**  
12300 Dundee Court  
Suite 200  
Cypress  
Texas  
77429  
USA  
**Contact:** Mr Alejandro (Alex) Algara  
**Job Title:** Vice President & CCO  
T: + 1 832 220 1200  
E: sales@geometrica.com  
W: www.geometrica.com  
*Specialists in the design, fabrication and installation of bulk storage domed structures requiring large, column-free interiors, utilizing low maintenance galvanized steel or aluminum. Structures can cover any shaped area, can span over 300m, and can be erected even over operating stockpiles.*



**GERTECH HANDLING****SYSTEMS CC**

PO Box 4014  
Durbanville  
Cape Town  
Western Cape  
7551  
South Africa  
**Contact:** Mr Gerrit De Hoog  
**T:** + 27 83 458 2415  
**E:** gerrit@gertech.co.za  
**W:** www.gertech.co.za  
*Design and manufacturing of mechanical conveyors (including the industrial Tube & Chain Conveyor), dust extraction and steel silos.*

**GF MHS SRL**

Via Serrati 7  
Paderno Dugnano (MI)  
Milan  
20037  
Italy  
**Contact:** Mr Francesco Tummillio  
**Job Title:** Managing Director  
**T:** + 39 0 2 91 08 20 02  
**E:** info@gfms.it  
**W:** www.gfms.it  
**F:** + 39 0 2 91 84 31 47  
*Other Equipment: Pipe Conveyors. Please contact us with any Handling System problems, such as lay-out or pollution of your handled product.*

**GLOBAL MANUFACTURING, INC.**

1801 East 22nd Street  
Little Rock  
Arkansas  
72206  
USA  
**Contact:** Mr Zachary Janosky  
**Job Title:** President  
**T:** + 501-374-7416  
**E:** zjanosky@globalmanufacturing.com  
**W:** www.globalmanufacturing.com  
**F:** + 1 501 3767147  
*Global Manufacturing Inc. manufactures bulk flow aids: industrial vibrators and air blasters. These products have been used in many areas of material handling (some are marked in the associated table). With our expertise, they can also be applied to many other material handling equipment or industrial processes.*

**GLOBAL TECHNICS OÜ**

Narva mnt 5  
Tallinn  
10117  
Estonia  
**Contact:** Mr Einar Luha  
**Job Title:** CEO  
**E:** sales@gltechnics.com  
**W:** https://gltechnics.com  
*Global Technics OU designs and supplies advanced railcar unloading accelerators, wagon cleaning systems, and dome-type warehouse cleaning solutions. Our equipment delivers reliable performance, reducing downtime and optimizing bulk cargo handling efficiency across rail, port, and industrial operations worldwide.*

**GOLDEN WEST INDUSTRIES**

459 N Highway 91 # 6  
Hurricane  
Utah  
84737  
USA  
**Contact:** Mr Jason Pierce  
**Job Title:** Vice President - Global Markets  
**T:** + 1 435 229 8000  
**E:** jason.pierce@goldenwest-industries.com  
**W:** www.goldenwest-industries.com  
*17 years experience providing dust control and anti-freeze*

*solutions to the mining and material handling industries.*

**GRAPPLERS INDIA PVT LTD (ESSAR INDUSTRIES)**

XIV/261- A, Chembaracky  
South Vazhakulam Post  
Aluva Perumbavoor Road  
Ernakulam  
Bengaluru  
Kerala  
683105  
India  
**Contact:** Mr A.M Sherif  
**Job Title:** CEO  
**T:** + 91 8048764863  
**E:** essarinds@gmail.com  
**W:** http://grapplersindia.com

**GÜNTHER JUNG GMBH**

Biggestraße 43  
Olpe 57462  
Germany  
**Contact:** Mr Günter Jung  
**Job Title:** Owner  
**T:** 02761/5285  
**E:** info@steinbruch-jung.de  
**W:** www.steinbruch-jung.de

**GURTEC GMBH**

Gurtecstrasse 3  
Schöppstedt  
38170  
Germany  
**Contact:** Mr Peter Abromeit  
**Job Title:** Sales Manager  
International  
**T:** + 49 151 15446300  
**E:** Peter.Abromeit@Gurtec.com  
**W:** https://gurtec.com/

**GUTTRIDGE LIMITED**

Wardentree Park  
Pinchbeck  
Spalding  
Lincolnshire PE11 3UU  
UK  
**Contact:** Mr Harry DeCamp  
**Job Title:** Senior Marketing Executive  
**T:** + 44 1775 765291  
**E:** enquiries@guttridge.co.uk  
**W:** www.guttridge.com  
*Guttridge, as part of the Mitchells group of companies, offers a wide range of bulk handling machinery, ideal for moving ores, granules, powders, sand, cement, salt and fertilizers around process plants. All our machines are manufactured to suit customers' individual requirements.*

**GUVEN GRAB MACHINE INC.**

Akse Mahallesi 535. Sk. No: 3/1  
Çayirova  
Kocaeli  
41420  
Turkey  
**Contact:** Mr Engin Demir  
**Job Title:** Sales Director  
**T:** + 90 262 743 8858  
**E:** guven@guvenkepece.com  
**W:** www.guvengrab.com  
**F:** + 90 262 743 1141  
*Established in 1984, with it's own manufacturing facilities, Guven Grab and Machine supplies it's range of grabs all over the world. These include radio remote control grabs, electro hydraulic clamshell/orange peel grabs, mechanical double wired grabs and mechanical clamshell/orange peel touch down grabs.*

**HACKFORTH HOLDING GMBH & Co. KG**

Heerstasse 66  
Herne  
44653  
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**Contact:** Mr Björn Peters  
**Job Title:** Head of Marketing  
**T:** + 49 2325 9220  
**E:** bjoern.peters@vulkan.com  
**W:** www.vulkan.com/  
**F:** + 49 2325 71110

**HÄGGLUNDS**

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Mellansel  
SE-895 80  
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**Job Title:** Manager, Mining & Materials Handling Industry  
**T:** +46 660 870 66  
**M:** +46 70 524 53 18  
**E:** urban.stromberg@boschrexroth.se  
**W:** www.hagglunds.com  
*Häggglunds stands for groundbreaking direct hydraulic drive technology and unswerving customer focus. Engineered and manufactured in Mellansel, Sweden, Häggglunds hydraulic motors and compact direct drive systems provide superior torque performance, flexibility and reliability to customers worldwide. Häggglunds is a brand of Bosch Rexroth, a leading global supplier of drive and control technologies.*

**HAMMELMANN GMBH**

Carl-Zeiss-Straße 6-8  
Oelde 59302  
Germany  
**Contact:** Mr Jascha Kolter  
**Job Title:** Head Of Corporate Communications  
**T:** + 49 25 22 76 0  
**E:** jascha.kolter@hammelmann.de  
**W:** www.hammelmann.com/

**HANGZHOU HUAXIN MECHANICAL & ELECTRICAL ENGINEERING Co., LTD.**

No. 315 Jinteng Road  
Xihu Science and Technology Economic  
Town Sandun  
Hangzhou  
310030  
China  
**Contact:** Mr Min Rui  
**Job Title:** Vice General Manager  
**T:** + 86 571 28251588  
**E:** huaxin@huaxinhz.com  
**W:** www.huaxinhz.com  
**F:** + 86 571 28251388

**HAPMAN**

5944 East N Avenue  
Kalamazoo  
MI  
49048  
USA  
**Contact:** Mr Matt Richardson  
**Job Title:** Vice President  
**T:** + 1 269 343 1675  
**E:** sales@hapman.com  
**W:** www.hapman.com  
**F:** + 1 269 349 2477  
*You can trust our experience and quality to deliver equipment and systems for the effective movement of all types of coal.*

**HASEL MACHINERY INC**

Cumhuriyet Mh. Nr 15 E5  
Karayolu Üzeri  
Yakacık Kartal  
İstanbul  
81100  
Turkey  
**Contact:** Mr Osman Nuri Mete  
**Job Title:** Manager  
**T:** + 90 216 452 9787  
**E:** osman.mete@hasel.com  
**W:** www.hasel.com  
**F:** + 90 216 452 9790

**HASKONING INDIA PVT LTD**

13th Floor, Maithili's Signet  
Plot - 39/4, Sector 30A  
Vashi  
Navi Mumbai  
400 705  
India  
**Contact:** Mr Hareld van den Brink  
**Job Title:** Director of Business - India  
**T:** + 91 22 4161 5004

**E:** hareld.van.den.brink@rhdvhv.com  
**W:** www.royalhaskoningdhv.com

**HATCH**

Alfredstraße 28  
Nordrhein-Westfalen  
Essen 45130  
Germany  
**Contact:** Mr Matthias Goeing  
**Job Title:** Global Director BMH Products  
**T:** + 49 1602832662  
**E:** matthias.goeing@hatch.com  
**W:** www.hatch.com  
*Hatch is a global multidisciplinary management, engineering and development consultancy. Its group companies have more than 10,000 staff in 70+ offices. Its Technologies Business Practice designs and supplies specialized products to all its principal sectors: Metals, Energy and Infrastructure.*

**HAUK & SASKO INGENIEURGESELLSCHAFT GMBH**

Eichwiesenring 11  
Stuttgart 70567  
Germany  
**Contact:** Mr David Sasko  
**Job Title:** CEO  
**T:** + 49 711 725 89-0  
**E:** david.sasko@hauk-sasko.de  
**W:** www.hauk-sasko.de/en/  
**F:** + 49 711 725 89-50

**HAULDER S.A.**

Passaje Echevarriarza 3535  
Torre A-Oficina 1602  
Montevideo 11300  
Uruguay  
**Contact:** Mr Paul Idzerda  
**Job Title:** Commercial Manager  
**T:** + 54 911 70080449  
**E:** paul.idzerda@haulder.com  
**W:** www.haulder.com

**HAVER & BOECKER NIAGARA**

225 Ontario St.  
St. Catharines  
Ontario L2R 7B6  
Canada  
**Contact:** Mr Steven Dery  
**Job Title:** VP Sales  
**T:** + 1 905 688 2644  
**E:** info@haverniagara.ca  
**W:** www.haverniagara.com  
**F:** + 1 905 688 4733  
*Haver & Boecker Niagara is a leading provider in screening, pelletizing and mineral processing plants and systems. The company's mission is to deliver the best of these technologies to customers in the mining, minerals, aggregates, cement, building products, fertilizer and salt and recycling industries. With deep roots and years of experience in these industries, Haver & Boecker Niagara uses its innovative and shared technologies to effectively meet the needs of customers around the world.*

**HEAVY HANDLING**

Steenlandlaan - Haven 1112  
Beveren (Kallo)  
Oost-Vlaanderen 9130  
Belgium  
**Contact:** Mr Mathias Matton  
**Job Title:** Sales Director Port Cranes  
**T:** + 32 479190755  
**E:** info@heavyhandling.be  
**W:** www.heavyhandling.be  
*Benelux distributor of MANTSINEN hydraulic material handling cranes, Konecranes Lifttrucks and Movella translifters.*

**HEKO KETTEN GMBH**

Eisenbahnstrasse 2  
Wickede (Ruhr) D-58739  
Germany  
**Contact:** Mr Gerhard Weber  
**Job Title:** Technical Sales Manager  
**T:** + 49 7961 568491  
**E:** weber@heko.com

**W:** www.heko.com  
**F:** + 49 23 77 1028

**HENAN SRON SILO ENGINEERING Co., Ltd.**

28th Floor, PICC Building,  
No. 24, CBD Business Outer Ring  
Road,  
Zhengzhou  
Henan  
450000  
China  
**Contact:** Ms Xing Fang  
**Job Title:** Brand manager  
**T:** + 86 371 63253880  
**E:** brand@sron.cn  
**W:** www.grainsilo.com

**HERJIMAR S.L**

Manganeso Street  
Plot 78 - 86  
Industrial Estate Los Camachos  
Cartagena  
Murcia  
30369  
Spain  
**Contact:** Mr Víctor Sola  
Hernandez  
**Job Title:** Director Comercial  
**T:** + 34 968147528  
**E:** vsola@herjimar.com  
**W:** https://herjimar.com/

**HEYL & PATTERSON EQUIPMENT MEMBER OF THE HALL GROUP**

701 Technology Drive  
Suite 100  
Canonsburg  
PA  
15317  
USA  
**Contact:** Mr Len Walnoha  
**Job Title:** Vice President  
**T:** + 1 412 481 1100  
**E:** heylpatterson@hallindustries.com  
**W:** www.heylpatterson.com  
**F:** + 1 724 758 1558  
*Heyl & Patterson Equipment specializes in custom engineered capital equipment for bulk material handling. We engineer railcar movers, dumpers, stacker reclaimers and barge unloaders, as well as provide replacement parts, upgrades and retrofits for the life of our equipment, which is measured in decades.*

**HIT S.R.L.**

Via Domenico Tosi 6  
Reggio Emilia  
42124  
Italy  
**Contact:** Ing. Paolo Soncini  
**Job Title:** Managing Director  
**T:** + 39 0522 1756 017  
**E:** info@hitsrl.com  
**W:** www.hitsrl.com  
**F:** + 39 0522 271 015

**HITACHI CONSTRUCTION MACHINERY (EUROPE) NV**

Siciliëweg 5  
Amsterdam  
1045 AT  
The Netherlands  
**Contact:** Ms Biljana Klopchevska  
**Job Title:** Public Relations & Communications  
**T:** + 31 20 44 76 700  
**E:** info@hitachim.eu  
**W:** www.hitachim.eu  
**F:** + 31 20 33 44 045  
*Hitachi Construction Machinery (Europe) NV's (HCME) main products are hydraulic crawler and wheeled excavators, wheel loaders, rigid dump trucks and special application machinery. HCME provides a broad product line-up that has earned an excellent reputation for performance, reliability and safety.*

**HKD BLUE**

15 Mercer Road  
Natick  
MA  
1760

USA  
**Contact:** Mr Gordon Santry  
**Job Title:** Business Development  
**T:** + 1 450 434 3286  
**E:** gsantry@hkdblue.com  
**W:** www.hkdblue.com/  
*HKD Blue designs, manufacturers, and sells water-atomizing dust control water cannons, spray bars, and pump-and-nozzle assemblies for dry bulk handling and loading facilities.*

**HORIZON CONVEYOR EQUIPMENT**

Unit 1, Haysech Road  
Halesowen  
West Midlands  
B63 3PD  
UK  
**Contact:** Mr Alan Bowler  
**Job Title:** Managing Director  
**T:** + 44 121 550 2218  
**E:** rollersales@conveyor-units.co.uk  
**W:** www.horizonconveyors.co.uk  
**F:** + 44 121 550 2243  
*Manufacturers of Steel, Plastic & Aluminium Idler rollers, Conveyor Belt Scrapers and Conveyor Components & Equipment.*

**HOSCH FÖRDERTECHNIK RECKLINGHAUSEN GMBH**

Am Stadion 36  
Recklinghausen  
D-45659  
Germany  
**Contact:** Mr Giancarlo Leombruno  
**Job Title:** Sales & Business Development Manager  
**T:** + 49 2361 5898 0  
**E:** mail@hosch.de  
**W:** www.hosch-international.com  
**F:** + 49 2361 5898 40  
*HOSCH is the specialist for conveyor belt cleaning systems for the bulk material handling industry. Based on our experience and continuous product development, we are able to realize the best solutions for any kind of bulk material and conveyor.*

**HUEBNER SPEED MONITORING (Pty) LTD.**

20 Park Road  
Richmond  
Johannesburg  
2109  
South Africa  
**Contact:** Mr Derek Colyn  
**Job Title:** Managing Director  
**T:** + 27 11 482 0088  
**E:** derek.colyn@huebner.co.za  
**W:** www.huebner.co.za  
**F:** + 27 11 482 8939

**HYCONTROL LIMITED**

Larchwood House  
Orchard Street  
Redditch  
Worcestershire  
B98 7DP  
UK  
**Contact:** Mr Mark Stevenson  
**Job Title:** Marketing Administrator  
**T:** + 44 1527 406800  
**E:** sales@hycontrol.com  
**W:** www.hycontrol.com  
**F:** + 44 1527 406810  
*Hycontrol is at the forefront of level control, providing precision solutions across a wide range of industries. Hycontrol is the UK's leading silo protection expert with systems that exceed MPA guidance, utilising ground level testing for a safer working environment. Other equipment includes: level measurement, silo protection.*

**IBAU HAMBURG**

Rödingsmarkt 35  
Hamburg



20459  
Germany  
**Contact:** Mr Ingo Urbach  
**Job Title:** Senior Sales Manager  
T: + 49 403 613 09 741  
E: info@ibauhamburg.de  
W: www.ibauhamburg.de  
*IBAU HAMBURG supplies installations and components for the transfer, storage and conveying of dry products, including among others fly ash and coal. Our scope includes the engineering and supply of plant components such as ship loaders and unloaders, as well as storage silos.*

## ICC COMMONWEALTH

1000 Market Street, BLDG 2  
Portsmouth  
NH  
03801  
USA  
**Contact:** Mr Mike Davis  
**Job Title:** nicole.andrews@icc-commonwealth.com  
T: + 1 6034336060  
E: Mike.Davis@icc-commonwealth.com  
W: www.icc-commonwealth.com

## ICCE D.O.O.

Oblakovska 21  
Belgrade  
11000  
Serbia  
**Contact:** Mr Aleksandar Jegdic  
**Job Title:** Marketing Manager  
T: + 381 63 407 296  
E: aleksandar.jegdic@icce.com  
W: www.icce.com  
*ICCE is a Turnkey Electrical Engineering Company providing electrical and automation solutions for your processes. We provide electrical and automation design, medium & low voltage, MCC panel building, PLC & SCADA software development, IT solutions, installation, commissioning, training, and technical support.*

## IEM FÖRDERTECHNIK GmbH

IndustrieStraße 1  
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D-95506  
Germany  
**Contact:** Mr Ralf Zander  
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T: + 49 96 42 800  
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F: + 49 9642 80101

## IGUS GmbH

Postfach 90 61 23  
Köln  
D-51127  
Germany  
**Contact:** Mr Jens Göbel  
**Job Title:** Industry Manager  
Cranes & Materialhandling  
T: + 49 2203 9649 0  
E: cranes@igus.de  
W: www.igus.com  
F: + 49 2203 9649 222  
*Products include E-ChainSystems - in operation on Ship to Shore Cranes, RTGs, RMGs, Goliath Cranes, Spreaders, Reach Stacker etc. More then 3.000 port equipment applications are running world-wide with igus® E-ChainSystems.*

## IMA ENGINEERING LTD

Sinikalliontie 3 B  
Espoo  
02630  
Finland  
**Contact:** Mr Ville Hakala  
**Job Title:** VP, Sales & Marketing  
T: + 358 407 049 290  
E: ville.hakala@ima.fi  
W: https://ima.fi/

## IMASA

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Oviedo (Asturias)  
33002  
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E: amancio.garcia@imasa.com  
W: www.imasa.com  
F: + 34 985 22 25 98

## IMECA CRANES

Kruisweg 643  
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2132 NC  
The Netherlands  
**Contact:** Mr Mattijs Faber  
**Job Title:** Business Development Manager  
T: +31 20 6556385  
E: contact.imeca@reel.fr  
W: www.imeca-reel.com  
F: +31 20 6550040  
*At Imeca we enable our clients to construct the infrastructure for offshore energy production, and do offshore transshipment. We are client driven with a strong technological base. Rational, Economic, Elegant & Light is part of our DNA. We are at our best as sparring partner for our clients, deeply involved in their operational process where our solutions can make a difference. We provide lifting, handling and integrated systems & services for the offshore energy and bulk handling markets.*

## IMO GERMANY

Imostr. 1  
Gremsdorf  
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91350  
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Sales  
T: + 49 9193 6395 1481  
E: mail@imo.de  
W: www.imo.de/en/  
F: + 49 9193 6395 1140

## IMPERIAL CONVEYING SYSTEMS

4155 Martindale Rd., NE  
Canton  
OH  
44705  
USA  
**Contact:** Kelly Jones  
T: + 1 330 491 3200  
E: kjones@imperialconveyingsystems.com  
W: www.imperialconveyingsystems.com  
F: + 1 330 491 3204  
*Imperial Conveying Systems designs and supplies bulk material equipment including our enclosed "environmentally friendly" conveyors under Multi-Fold and Flexi-Cleat belt designs. We also provide conventional trough conveyors, fixed and radial stackers, sidewall conveyors, tripper conveyors, reversing shuttle conveyors, drag conveyors, related bulk materials handling equipment and our coal "variable speed vertical impact breaker" for dry coal processing called the Accelerator to improve raw coal from the mine.*

## IMPRO SOLUTIONS INC

34 Parker Road  
Edison  
NJ  
08820  
USA  
**Contact:** Miss Alexis Bledel  
**Job Title:** Supply Chain Specialist  
T: + 1 8484679004  
E: alexis@impro-solution.com  
W: www.impro-solution.com

## INCOLAB SERVICES BV

PO Box 1561  
Oud-Beijerland  
BB  
3260  
The Netherlands  
**Contact:** Mr Leo Van Tour  
**Job Title:** Managing Director  
T: + 31 1866 10355  
E: leo@incolab.com  
W: www.incolab.com  
F: + 31 1866 10552  
*Incolab Services main target is to serve the solid fuel industry*

*with own office and laboratories . Most of our laboratories are 17025 accredited. Present in Europe, former USSR, North and South America and North and South Africa.*

## INDURAD - THE INDUSTRIAL RADAR COMPANY

195 Jan Smuts , TBE  
Rosebank  
Johannesburg  
Guateng  
2196  
South Africa  
**Contact:** Mr Nicolas Morgan  
**Job Title:** Managing Director  
T: + 27 79 515 272  
E: nicolas.morgan@indurad.com  
W: www.indurad.com  
*indurad is a German global supplier of radar-based automation technology. Indurad has successfully implemented advanced automation solutions, globally, to debottleneck material handling processes in mining, marine, and bulk material handling industries. Indurad's proprietary sensors form part of multipurpose solutions, comprising realtime inventory control, 3D stockpile visualisation, high-precision machine positioning, conveyor belt volume flow control, shiploading, and more.*

## INDURAD GmbH

Belvedereallee 5  
Aachen  
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*Using 2D and 3D radars to visualized mining and bulk handling processes, providing automation solutions along the flow chain to safe energy and debottleneck.*

## INENCO SACC

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## INSTRAL B.V.

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*Instral BV is a specialized and leading company in the world*



*of dust protection and dust control. We offer dosing and spraying equipment/systems for dust control treatment (conveyor belts, stockpiles, yards, roads etc) Our C-Force® control additives are applicable for bulk storage and transhipment (coal, sand, iron ore pellets etc.) and at mining sites.*

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Nuñez de Vela N36-193 y NNUU  
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*A global company that provides the bulk container handling system; "CBH" that offers a logistics solution for the transfer of cargo using sealed containers at the port of shipment. When the ship arrives, containers are moved to the dockside and using a gyratory spreader called RAM Revolver, are rotated into the ship's hold using the patented ISG lid lifter and a suppression system that removes dust in the charging process.*

## ISAM AG GESELLSCHAFT FUER ANGEWANDTE KYBERNETIK

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*iSAM delivers the full range of products and services for advanced automation of bulk material handling and port operations. We handle turn-key solutions for new automation projects as well as the upgrading of existing equipment including project management, electrical engineering and commissioning.*

## INTERNATIONAL CRANE FACTORY

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*QML Services provides outsourced logistics management services to the mining and resources industries. QML Services is part of the ION Group, utilising QMASTOR Commodity Management software. QMASTOR Metals and Mining solution reduces operational, logistical, marketing and commercial costs by managing the tonnage, quality and value of coal and mineral supply chains.*

## ISAM AG GESELLSCHAFT FUER ANGEWANDTE KYBERNETIK

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## I IK ENGINEERING

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*ISKAR, as being an expert on basic and detailed engineering, manufacturing, assembly, start-up and after-sales services for more than 40 years on the application of various bulk material handling projects in and out of Turkey provides dedicated solutions for his customers. Our values guide us throughout our business life and outlines our behaviours. We care and work for our customer's success. We encourage our colleagues for applying their knowledge on new ideas and projects. ISKAR is a trustful partner from Turkey for your needs.*

## ISOMONTE SA

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*Specialises in the design and construction of turnkey systems for materials handling, including shiploaders/unloaders, grabs, stacker/reclaimers and conveyor systems.*



**ITALGRU S.R.L**

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*Designs, engineers and manufactures mechanical and hydraulic grabs for all kinds of bulk material.*

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*Jacobs leads global professional engineering services, delivering solutions for a more connected, resilient, and sustainable world. Our talent force of more than 45,000 provides broad capability across project delivery, technical, environmental, and scientific areas to our clients.*

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**JENIKE & JOHANSON INC.**

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*Jenike & Johanson is the world's leading company in powder and bulk solids*

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**JIANGSU RAINBOW HEAVY INDUSTRIES Co., Ltd.**

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**JIMWAY ENTERPRISE Co., LTD**

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**F:** + 886 7 8718128  
*More than 35 years of experience in bulk material handling. Jim Way is an expert belt conveyor accessories manufacturer and meets the ISO 9001 quality standard. We deal with several issues caused by belt mistracking and improve productivity goals.*

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*Hübner Giessen is considered a market leader in encoder and drive technology with activities in the following industrial sectors: Steelworks and rolling mills, mining, cranes, railways, marine, oil and gas, traction technology, hydroelectric power plants and energy systems.*

**JOY GLOBAL INC**

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**F:** + 49 26 45 18 112  
*Wear-protection materials and services. Engineering, production, and worldwide installation of highly wear-resistant linings and components made of ceramic, metallic and plastic materials for protecting all kinds of bulk handling equipment.*

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Istanbul Mermerciler Sanayi Sitesi  
Koseler Mah. 21. Cad. No : 39  
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**W:** www.kenz-figee.com  
*Merger of Kenz offshore cranes and Figeo harbour cranes. Founded in 1836, Figeo designs and manufactures a complete range of bulk handling cranes including the unique and well proven Lemniscate floating grab cranes with capacities from 16-50 tonnes, gantry grab unloaders, single- and double boom cranes, kangaroo cranes.*

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*KIEPE Industry is a German manufacturer, based in Duesseldorf at the Rhine, of pull rope switches, belt drift switches and speed monitoring devices for the control of belt conveyor systems, under the trademark KIEPE ELEKTRIK™. Since the 1960's, this trademark has been a worldwide synonym for proven products of the highest quality.*

**KILIC ENGINEERING**

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**F:** + 61 3 8587 9101  
*Kinder Australia delivers innovative solutions to improve and maintain the efficiency of conveyor and bulk materials handling equipment for a variety of products. Imaginative design capabilities, lateral thinking, rigid benchmarking and ability to overcome problems makes Kinder an industry leader.*

**KINGFISHER INDUSTRIAL LTD**

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*Kingfisher specialise in protecting process plant and equipment against wear and abrasion. Offering a complete range of systems to cater for the harshest of operational environments, priding ourselves on offering industry an unbiased solution to the problems encountered when handling or processing bulk solid materials.*

**KINSHOFER GMBH**

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*Specialists in Bulk Materials Handling around Wagon unloading systems & Stockyard Equipment.*

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*KOCH SOLUTIONS delivers advanced Mining & material handling technologies. Our portfolio covers the complete value chain – from efficient conveying and stockyard systems to fully integrated lifecycle services – ensuring reliable performance and sustainable productivity across all operations. With more than 10,000 references worldwide, KOCH Solutions stands for proven expertise and long-term reliability.*

**KOMATSU MINING CORP. GROUP**

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*Komatsu Mining Corp offers a wide range of solutions, to surface and underground mining, quarrying, and many other material handling applications. With the Komatsu focus on quality and safety, the crushing and conveying offering ensures customers maintain uptime, while decreasing costs.*

**KONECRANES (France)**

2 Boulevard de l'Industrie  
Vernouillet 28500  
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**W:** www.konecranes.fr  
*Konecranes is a world-leading group of Lifting Businesses, serving a broad range of customers including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes.*

**KONECRANES FINLAND CORPORATION**

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*Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Regardless of your lifting needs, Konecranes is committed to providing you with lifting equipment and services that increase the value and effectiveness of your business. See more information on www.konecranes.com*

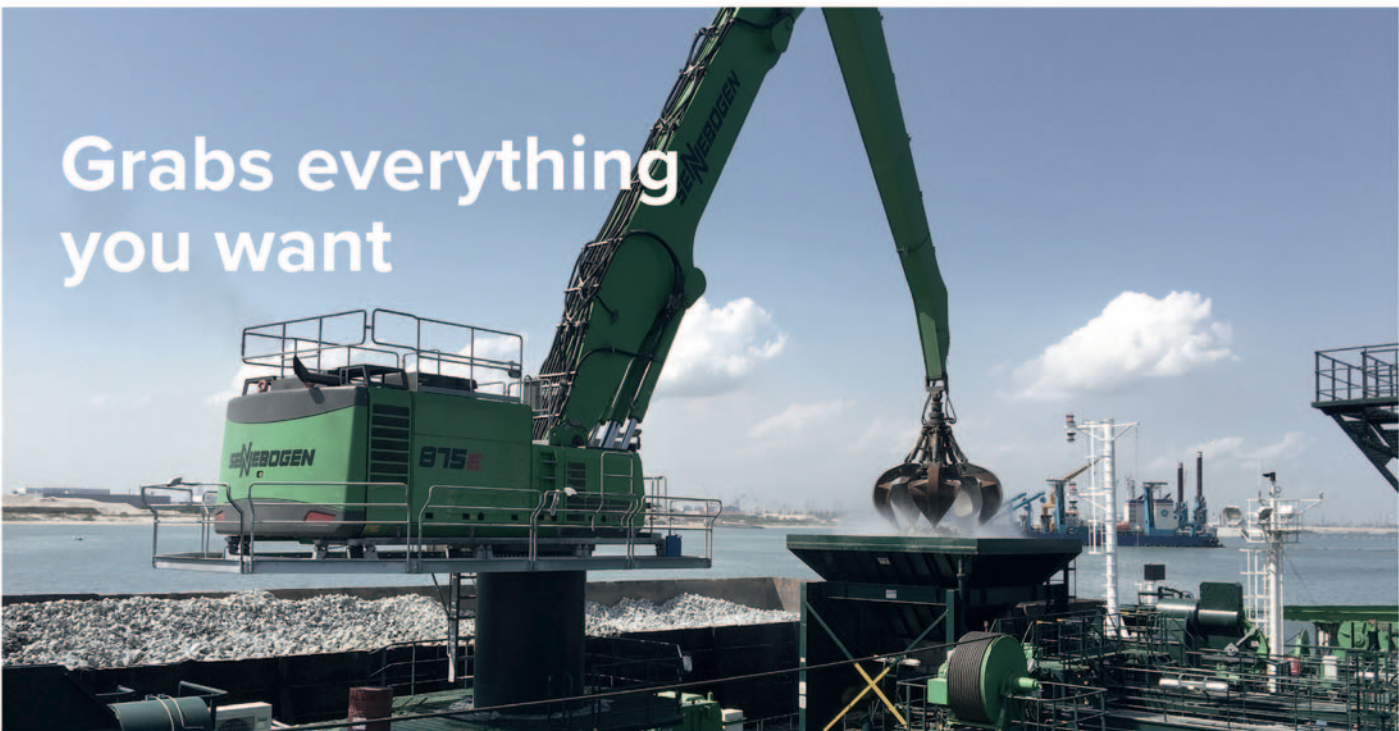
**KONECRANES PORT SOLUTIONS - KONECRANES GMBH**

**KONECRANES**  
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D-40597  
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Mobile Harbor Cranes  
**T:** + 49 211 7102 3771  
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**W:** www.konecranes.com  
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letter A, Sredny Pr.  
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*Manufacturer of grabs of all types since the year 1962. Main products - two and four rope grabs, hydraulic grabs, electro hydraulic grabs from 0.5-25m3.*

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**T:** +1 574 256 0204  
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**W:** www.laidig.com  
*The coal industry presents many challenges for the storage and reclaim of hard to*

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*One of the world's most dynamic and innovative privately owned development, construction and specialist companies. Acquired Barclay Mowlem in 2006, thereby providing additional scale, resources and capability. Offers a Total Solution Partner - bringing finance, development, design, construction and maintenance solutions to clients throughout Australia and the Asia Pacific region.*

## LARSEN & TOUBRO LIMITED

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**E:** info@lassingdibben.com  
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**F:** +1 613 394 4173  
*Award winning consulting engineers, specialising in bulk material handling. Extensive experience around the world means the company can handle all aspects of system design. Projects include shiploading and unloading equipment a myriad of materials, stackers, conveyor systems and storage facilities.*

## LAWRENCE INDUSTRIES, Inc.

108 Industrial Drive  
Suite A & B  
Saint Marys  
Georgia  
31558  
USA  
**Contact:** Mrs Alissa Gazze  
**Job Title:** Sales Engineer  
**T:** +1 260 432 9693  
**E:** sales@lawrenceindustriesnow.com  
**W:** www.lawrenceindustriesnow.com  
*Lawrence Industries, Inc. is a fabricator and distributor of TIVAR 88 polymer liners. TIVAR 88 is a low coefficient of friction liner that is used to eliminate sticking, pluggage, ratholing material build-up. TIVAR 88 has excellent wear properties.*

## LD PORTS & LOGISTICS

LDPL Ltd Pte 133  
Cecil Street #06-01  
Keck Seng Tower  
Singapore

069535  
Singapore  
**Contact:** Mr Mathieu Muzeau  
**Job Title:** Managing Director  
**T:** +33 6 73 99 85 06  
**E:** Mathieu.muzeau@ldpl.com  
**W:** www.ldpl.com  
*LD Ports & Logistics has more than 160 years of experience performing maritime commodity logistics for companies and commodity users worldwide. LDPL offers a full range of reliable and efficient bulk materials logistics solutions in partnership with our clients.*

## LDPL MIDDLE EAST SHIPPING LLC

IBN Battuta Gate Office  
Dubai  
UAE  
**Contact:** Mr Mathieu Muzeau  
**Job Title:** Managing Director  
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**E:** Mathieu.muzeau@ldpl.com  
**W:** www.ldpl.com

## LEITNER S.P.A (AGUDIO)

RUT 00123790214  
Via Brennero 34  
Vipiteno  
Sterzing BZ IT  
39049  
Italy  
**Contact:** Mr Stefano Cattaneo  
**Job Title:** Sales Manager  
**T:** +39 011 997 33 55  
**E:** info@agudio.com  
**W:** www.agudio.com  
*AGUDIO, with more than 150 years of creativity, innovation and reliability, is the brand dedicated to the engineering and construction of non-standard rope-haul systems for material transportation such as FlyingBelts (conveyor belt suspended on ropes), Ropeways, Cable Cranes and Special Installations. It is part of the High Technology Industries (HTI) group of companies, which unites the companies Leitner and Poma.*

## LEON OVERSEAS PTE. LTD

51 Science Park Road  
#04-25 The Aries  
Singapore Science Park II  
Singapore  
117586  
Singapore  
**Contact:** Ms Nivedita Ghosh  
**Job Title:** Global Business Development Head  
**E:** nivedita.ghosh@leonoverseas.com  
**W:** www.leonoverseas.com/

## LIEBHERR-HYDRAULIKBAGGER GmbH

Liebherrstraße 12  
Kirchdorf/Ilser  
88457  
Germany  
**Contact:** Mr Andreas Scheuerl  
**Job Title:** Head of Key Acc  
Management-Material Handling Tech.  
**E:** iAndreas.scheuerl@liebherr.com  
**W:** www.liebherr.com  
*A member of the Liebherr Group and manufacturer of hydraulic material handlers.*

## LIEBHERR-MCCTEC ROSTOCK GmbH LIEBHERR

Liebherrstr. 1  
Rostock  
18147  
Germany  
**Contact:** Mr Leopold Berthold  
**Job Title:** Sales Director  
**T:** +43 50809 41725  
**E:** manager.cranes@liebherr.com  
**W:** www.liebherr.com  
**F:** +43 50809 41447  
*With 7 models available (42 - 208 tonnes capacity), Liebherr*

*offers a wide range of cranes for dedicated coal handling. Due to optimized opening/closing and hoisting speeds, simultaneous functions, increased filling degrees, electronically controlled winch synchronisation etc., outstanding handling figures are being achieved.*

## LION BULK HANDLING B.V.



Global Headquarters  
Cyprusbaan 14  
Capelle aan den IJssel  
Zuid-Holland  
2908 LT  
The Netherlands  
**Contact:** Mr Thijs Luijsterburg  
**Job Title:** Commercial Manager  
**T:** +31 180 440 720  
**E:** info@lionbulkhandling.com  
**W:** www.lionbulkhandling.com  
*We design, manufacture and commission bulk handling systems for the marine, offshore and onshore industries. If you are building a new ship or a drilling rig, converting an existing ship, equipping an offshore vessel, or simply need spare parts or a feasibility study, Lion Bulk Handling is your partner for Bulk Material Solutions.*

## LISTENOW GmbH & Co.



Dieselstrasse 21  
Rutesheim  
71277  
Germany  
**Contact:** Mr Carsten Lohr  
**T:** +49 7152 50900  
**E:** c.lohr@listenow.com  
**W:** www.listenow.com  
**F:** +49 7152 509050  
*Other equipment: loading equipment, filters.*

## LOIBL FÖRDERANLAGEN GmbH

Arberstr. 40  
Straubing  
94315  
Germany  
**Contact:** Mr Arnd Benninghoff  
**Job Title:** Managing Director  
CSO  
**T:** +49 9421 9256 0  
**E:** info@loibl-group.com  
**W:** www.loibl-group.com  
**F:** +49 9421 9256 25  
*Loibl is a leading global supplier and manufacturer of customized conveying solutions for bulk materials, from individual components to complex systems. Decades of experience and comprehensive knowledge about the physical requirements of all types of bulk materials make Loibl an essential partner in the development of customized solutions for a wide range of industries and applications.*

## LORBRAND

No 6 Hennopsrivier St.  
Sunderland Ridge  
Centurion  
0157  
South Africa  
**Contact:** Mr Martin Granig  
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**T:** +27 12 666 6000  
**E:** info@lorbrand.com  
**W:** www.lorbrand.com/  
**F:** +27 12 666 9187

## LSL CONSULTING PTY

## LTD

Meadowbrook Lane  
Epsom Downs  
Sandton  
Johannesburg  
Gauteng  
2021  
South Africa  
**Contact:** Mr Brian Cotter  
**Job Title:** Consulting Engineer  
**T:** +27 845054495  
**E:** info@lsitek.co.za  
**W:** https://lsitek.co.za/

## LYBOVER

Oude Kassee 16  
Waregem  
B-8791  
Belgium  
**Contact:** Ms Katrien Verfaillie  
**Job Title:** Marketing & Communication Manager  
**T:** +32 56 67 10 10  
**E:** katrien.verfaillie@lybover.be  
**W:** www.lybover.be/  
*BULK.ID is strong in turn-key solutions for the handling and recycling industries. We collaborate with leading German manufacturers who deliver innovative products. A stable German partner and our own engineering, construction, assembly and service departments leads to an ideal collaboration for the customer. Other Equipment - Wind Sifters*

## M.A.T. MALMEDIE ANTRIEBSTECHNIK GmbH

Dycker Feld 28  
Solingen  
42653  
Germany  
**Contact:** Mr Christian Tiggs  
**Job Title:** Sales Manager  
**T:** +49 212 25811 ext 53  
**E:** sales@malmedie.com  
**W:** www.malmedie.com

## MACAWBER ENGINEERING, INC

1829 Clydesdale Street  
Maryville  
TN  
37801-3796  
USA  
**Contact:** Mr Dean Wicks  
**Job Title:** VP Business Development  
**T:** +1 800 433 2213  
**E:** webinquiry@macawber.com  
**W:** www.macawber.com  
**F:** +1 865 984 5286

## MACGREGOR SWEDEN AB

Björnåvågen 41a  
Örnsköldsvik  
SE-891 41  
Sweden  
**Contact:** Mr Mikael Hägglund  
**Job Title:** Manager, Transloading and Self unloading systems  
**T:** +46 660 294 096  
**E:** Mikael.Hagglund@macgregor.com  
**W:** www.macgregor-group.com  
**F:** +46 660 12455  
*MacGregor is a market leader in sustainable Cargo handling solutions.*

## MACK

### MANUFACTURING INC

PO Box 1559  
7205 Bellingrath Road  
Theodore  
Alabama  
36582  
USA  
**Contact:** Mr Matthew A. Davidson  
**Job Title:** Vice President - Marketing  
**T:** +1 251 653 9999  
**E:** sales@MackMfg.com  
**W:** www.mackmfg.com  
**F:** +1 251 653 1365  
*Manufactures all types of grabs and grapples, both wire rope and hydraulically operated, as well as radio-controlled and diesel operated systems.*

## MAGALDI POWER S.P.A.

Via Imo, 219  
Salerno  
84135  
Italy  
**Contact:** Ms Patrizia Gavarretti  
**Job Title:** Marketing Dept  
**E:** patrizia.gavarretti@magaldi.com  
**W:** www.magaldi.com/

## MAJOR

225 North Montcalm Blvd.  
Candiac  
Quebec  
J5R 3L6  
Canada  
**Contact:** Mr Ian Edwards  
**Job Title:** Vice President of Sales  
**T:** +1 450 659 7681  
**E:** iedwards@majorflexmat.com  
**W:** www.majorflexmat.com  
**F:** +1 450 659 5570  
*MAJOR is an innovative global manufacturer of wire screens for the aggregate, mining and recycling industries. FLEX-MAT®, the company's renowned line of distinctive lime-green high vibration screens made with OPTIMUMWIRE® "The longest-lasting wire" sets the standard in lowering cost of production per ton by dramatically increasing throughput and wear life while eliminating blinding and pegging. MAJOR masters wire quality, screen manufacturing and the screening process, and provides on-site screening performance assessment and training seminars on screen maintenance and screening efficiency to help producers increase their screening performance and profitability. MAJOR is a Haver & Boecker company.*

## MANTSINEN GROUP LTD Oy

Välkankaantie 3  
Ylämylly  
FIN-80400  
Finland  
**Contact:** Ms Mari Riissanen  
**Job Title:** Communications & Marketing Manager  
**T:** +358 20 755 1230  
**E:** mari.riissanen@mantsinen.com  
**W:** www.mantsinen.com  
*Mantsinen Group manufactures highly efficient and precise hydraulic harbour cranes for bulk and general cargo operations. Mantsinen cranes can be tailored to best suit each application. Mantsinen Hybrilift® energy saving system and wide range of attachments makes the cranes economical, efficient and universal tools for stevedoring companies and harbour operators. Other equipment/expertise: Wood handling, Subcontracting.*

## MARCO - A TEREX BRAND

561 State Drive  
Mt. Vernon  
MO  
65712  
USA  
**Contact:** Mr Trevor Park  
**Job Title:** General Manager  
**T:** +1 636 680 2031  
**E:** marco@terex.com  
**W:** www.terex.com/marco  
**F:** +1 636 680 2037  
*Marco provides the complete design, manufacture and installation of bulk material handling systems across multiple industries including mineral processing, transportation and other specialized areas. For over 80 years, Marco has been providing reliable and durable solutions for its customers.*



## MARINE INSPECTION LLC

621 North Carrollton Avenue  
New Orleans  
LA  
70119  
USA

**Contact:** Mr Robert Drew  
**Job Title:** Managing Partner  
**T:** + 1 504 866 0014  
**E:** rdrew@marineinspection.com  
**W:** www.marineinspection.com/  
**F:** + 1 504 866 0016

## MARTIN ENGINEERING



1 Martin Place  
Neponset  
Illinois  
IL 61345  
USA

**Contact:** Mrs Chelsea Blake  
**Job Title:** Marketing  
**T:** + 1 309 852 2384  
**E:** chelseab@martin-eng.com  
**W:** www.martin-eng.com  
**F:** + 1 800 814 1533  
*Martin Engineering makes bulk material handling cleaner, safer and more productive, improving belt conveyors by suppressing dust, reducing spillage, removing carryback and tracking belts. Specialists in belt cleaners, air cannons, vibration, transfer point technologies, dust management, railcar unloading, silo cleaning.*

## MARTIN ENGINEERING GmbH

In der Rehbach 14  
Walluf  
Hessen  
D-65396  
Germany

**Contact:** Mr Oliver Kämpfer  
**Job Title:** Sales Manager DACH  
**T:** + 49 6123 9782 - 19  
**E:** info@martin-eng.de  
**W:** www.martin-eng.de  
**F:** + 49 6123 75533  
*Since 1944 Martin Engineering has been a worldwide leader in making Bulk Material Handling cleaner, safer and more productive. Other equipment: Field Services, Safety Products, Flow Aids, Screen Vibrators*

## MASCHINEN UND MÜHLENBAU ERHARD MUHR GmbH

Grafenstraße 27  
Brannenburg  
D-83098  
Germany

**Contact:** Mr Roland Muhr  
**Job Title:** Managing Director  
**T:** + 49 8034 90720  
**E:** roland.muhr@muhr.com  
**W:** www.muhr.com  
**F:** + 49 8034 9072 526  
*MUHR offers a wide range of high quality Bulk Loading Systems (for open and closed, dust-free loading), Loading Spout Positioners, Pneumatical Docking Devices and even Railcar Dumping Systems for economical unloading of trains with open railcars.*

## MASCHINEN-UND INDUSTRIEBAU FELD GmbH

Winkelfeld 3-7  
Oer-Erkenschwick  
D-45739  
Germany

**Contact:** Mr Andreas Renner  
**Job Title:** Executive Director  
**T:** + 49 2368 98 89 0

**E:** info@maschinenbau-feld.de  
**W:** www.maschinenbau-feld.de  
**F:** + 49 2368 98 8927  
*High standards, qualified and creative employees, the right technology to meet customers' demands. High-Tech for preservation of our resources.*

## MATRIX PDM ENGINEERING

5100 E Skelly Drive  
Suite 100  
Tulsa  
OK  
74135  
USA

**Contact:** Ms Lesley Windler  
**Job Title:** Marketing Manager  
**T:** + 1 918 838 8822  
**E:** lwindler@matrixservicecompany.com  
**W:** www.matrixpdm.com  
*Matrix PDM Engineering, a subsidiary of Matrix Service Company (Nasdaq: MTRX) provides multi-disciplinary engineering, procurement and construction management services to the energy, power and industrial markets in North America and around the world.*

## MAZE MH LTD

80 High Street  
Graveley  
St Neots  
Cambridgeshire  
PE19 6PL  
UK

**Contact:** Mr Guy Martin  
**Job Title:** Director  
**T:** + 44 1480 264266  
**E:** guy@Maze-MH.co.uk  
**W:** www.maze-MH.co.uk  
**www.port-consultants.com**  
*Independent Bulk materials handling Engineering consultancy with wide experience in Ports & Terminals internationally. Impartial advice so you get what you want not what your suppliers think you need. Member of the Independent Port Consultants Group.*

## MCCREATH LABORATORIES

1649 Bobali Drive  
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PA  
17104  
USA

**Contact:** Mr Robert Kozicki  
**Job Title:** President  
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**E:** service@mccreathlabs.com  
**W:** www.mccreathlabs.com/  
**F:** + 1 717 364 1640

## MCI GROUP

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Grax  
8010  
Austria

**Contact:** Mr Alfred Topf  
**Job Title:** CEO  
**T:** + 43 3142908080  
**E:** alfred.topf@mci-austria.com  
**W:** www.mci-austria.com/

## MDG HANDLING SOLUTIONS S.r.l.



Via del Brennero, 316  
Trento  
Chennai  
Tamil Nadu  
600032  
India

**Contact:** Mr Davide Garbarotta  
**Job Title:** CEO  
**T:** + 39 0461 1637111  
**E:** info@mdghandlings.com  
**W:** www.mdghandlings.com/  
*MDG Handling Solutions was founded in 2017 and operates in the field of customized design and production of EP / EPC / EPCMC 'turnkey' plants. MDG identifies the best technological solutions for customers specific needs, by proposing itself as 'one source*

*solution', and for production systems, development and assistance. MDG Handling Solutions offers engineering, high-quality manufacturing and mechanical handling services.*

## MEGADOME® BUILDINGS by HARNOIS

1044 Principale  
St-Thomas  
Saint-Thomas  
Quebec  
J0K 3L0  
Canada

**Contact:** Mr Vincent Douville  
**Job Title:** Executive Director - Marketing & Customer Experience  
**T:** + 1 888 427 6647  
**E:** v.douville@harnois.com  
**W:** www.megadomebuildings.com  
*Megadome designs and manufactures durable, versatile fabric-covered buildings for storage, agriculture, and industrial applications. Known for reliability and strength, Megadome structures deliver cost-effective, long-lasting solutions that adapt to diverse needs and environments worldwide.*

## MEGAROLLER AFRICA

38 Theuns Mulder Street  
Industrial Area  
Brits  
North West  
0250  
South Africa

**Contact:** Mr Retief Kruger  
**Job Title:** Operations Manager  
**T:** + 27 12 111 7241  
**E:** info@megaroller.africa  
**W:** www.megaroller.africa.com  
*With a history of innovation, research and development spanning over 30 years, Megaroller is entrenched as innovative leaders in manufacturing of long lasting and environmentally sound conveyor idlers for the mining and bulk material handling industries. Our ranges of products which incorporate patented technologies have been proven time and time again to outperform competitive products in durability, quality and total cost of ownership. It is a feather in our cap when a mining house specifies Megaroller as a product description instead of a brand. "Engineered to last longer than the market standard"*

## MENTOR DYNAMICS

170 Penrod Court  
Glen Burnie  
Maryland  
21061  
USA

**Contact:** Mr Don Watts  
**Job Title:** President  
**T:** + 1 410 760 6349  
**E:** info@mentordynamics.com  
**W:** www.mentordynamics.com  
**F:** + 1 410 760 8284  
*Leading supplier of cargo hold liners for self unloaders, barges, and other bulk material storage & handling equipment. Products include Dyna-Flo high performance plastic liners and ceramic wear liners.*

## MERIT TECHNOLOGIES INDIA PVT LTD

E1, 1stFloor  
TVK Industrial Estate  
Guindy  
Chennai  
Tamil Nadu  
600032  
India

**Contact:** Mr Rajesh Kumar  
**Job Title:** Marketing  
**T:** + 91 044 22501864  
**E:** rajesh@meritech.co.in  
**W:** www.meritbulkhandling.com/  
**F:** + 91 044 22501865  
*MERIT Group, established in 1997, is India's market leader for batch load orders, rapid loading systems, in-motion rail cars and truck loading systems.*

## MERRICK INDUSTRIES

10 Arthur Drive  
Lynn Haven  
FL  
32444  
USA

**Contact:** Mr Erik Nolte  
**Job Title:** General Manager  
**T:** + 1 850 265 3611  
**E:** info@merrick-inc.com  
**W:** www.merrick-inc.com  
**F:** + 1 850 265 9768  
*Merrick Industries is a leader in continuous weighing and feeding solutions, since 1908. Merrick designs, manufactures, and supports all of our products at our Lynn Haven, Florida plant for the Coal, Cement, Mining, Chemicals, Lime, Gypsum, Steel and Aggregates industries.*

## METALKARMA ENGINEERING TECHNOLOGIES PVT LTD

14, Attibele Industrial Area  
Bangalore  
Karnataka  
562107  
India

**Contact:** Mr Ritesh Gupta  
**Job Title:** Director  
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**E:** ritesh@metalkarma.in  
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## METSO

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Espoo  
02230  
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**Contact:** Ms Anne Rantanen  
**Job Title:** Business Communications, Minerals and Metals  
**T:** + 358 40 7159646  
**E:** anne.rantanen@mogroup.com  
**W:** www.metso.com

## METSO MINERALS INDUSTRIES, Inc.

2715 Pleasant Valley Road  
York  
Pennsylvania  
PA 17402  
USA

**Contact:** Mr Dave Cantalupo  
**Job Title:** Director, TSS/FS/REP, USA Mining Services  
**T:** + 1 412 352 5811  
**E:** dave.cantalupo@metso.com  
**W:** www.metso.com  
*Products include stacker/reclaimers; railcar dumpers/wagon tipplers; grab, continuous and balance unloaders; barge/ship loaders; barge and train positioning systems; mechanical ash handling systems; coal preparation equipment; apron feeders and overland conveyor systems.*

## METSO USA, Inc.

Bulk Materials Handling  
2715 Pleasant Valley Road  
York  
PA  
17402  
USA

**Contact:** Mr Sushanta Dutta  
**Job Title:** Vice President, Bulk Material Handling  
**T:** + 1 717 843 8671  
**E:** sushanta.dutta@metso.com  
**W:** www.metso.com  
*Products include stacker/reclaimers; railcar dumpers/wagon tipplers; grab, continuous and balance unloaders; barge/ship loaders; barge and train positioning systems; mechanical ash handling systems; coal preparation equipment; apron feeders and overland conveyor systems.*

## MEYLAND NV

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Adegem  
9991  
Belgium

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## MGB & COMPANY



7435 FM 2000  
Caldwell  
Texas  
77836  
USA

**Contact:** Mr Michael Bandas  
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**T:** + 1 512 734 2996  
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**W:** www.mgbandcompany.com  
**F:** + 1 512 556 0343  
*MGB & Company buys, sells and brokers equipment for processing, conveying, storing and loading materials in the mining, aggregates, frac sand, dry bulk and marine markets. We are driven to build value into every deal for both buyers and sellers.*

## MHM MOBILE HEAVY MACHINERY

Zemaites str. 21  
Vilnius  
LT-03118  
Lithuania

**Contact:** Mr Raimondas Jasutis  
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## MIDECO JIA PTY LTD

Factory 2/63-71 Bayfield Rd East  
Bayswater North  
Victoria  
3153  
Australia

**Contact:** Mr Melton White  
**Job Title:** Director  
**T:** + 61 3 8873 0200  
**E:** sales@midecohse.com  
**W:** https://midecohse.com/  
*Mideco has delivered dust control solutions worldwide since 1950. From mines and quarries to commercial sites, we design dust collection, suppression, and personnel de-dusting systems, including the Bat Booth® and Bat Vent®—protecting workers, workplaces and the environment from fugitive dust.*

## MIDWEST INDUSTRIAL SUPPLY INC

1101 3rd St. SE  
Canton  
Ohio  
OH 44707  
USA

**Contact:** Ms Morgan Murphy  
**Job Title:** Marketing Manager  
**T:** + 1 330 456 3121  
**E:** Morgan.Murphy@midwestind.com  
**W:** www.midwestind.com  
**F:** + 1 330 456 3247  
*Provide a complete line of dust control, erosion control, soil stabilization lubricants, anti-icing and de-icing products that are developed by the company staff of chemists and backed by a complete range of services, equipment, expertise and technical support since 1975.*

## MIDWEST INTERNATIONAL STANDARD PRODUCTS, Inc.

105 Stover Road/ PO Box 438  
Charlevoix  
MI  
49720-0438  
USA

**Contact:** Mr Walter Pair  
**Job Title:** President and CEO  
**T:** + 1 231 547 4000  
**E:** sales@midwestinternational.com  
**W:** www.midwestmagic.com  
**F:** + 1 231 547 9453  
*Founded in 1967, the company*

*focuses on dust free loading and stockpiling of dry bulk with products including The Paragon Series and the Heavy Duty Mining Series. The Chokefeeder® dust free shiploading systems are used by governments and industries in over 50 countries.*

## MINERAL PROCESSING SOLUTIONS

40 Miguel Road  
Bibra Lake  
Western Australia  
6163  
Australia

**Contact:** Mr Sean Burke  
**Job Title:** Area Manager  
**T:** + 61 8 9359 0333  
**E:** sean.burke@mpsau.com.au  
**W:** www.mpsau.com.au  
**F:** + 61 8 9359 0444  
*The OPS Group is a privately owned, 100% Australian owned and operated group of companies, established in 1989 with a core focus on providing professional equipment supply and after-market service to the mining, quarrying, screening, crushing, blockmaking, construction and earthmoving industries.*

## MIST-AIR DUST SUPPRESSION LIMITED

Hillcrest  
Penybont  
Shropshire  
SY10 9JF  
UK

**Contact:** Mr Andrew Carter  
**Job Title:** Managing Director  
**T:** + 44 1691 828487  
**E:** info@mist-air.co.uk  
**W:** www.mist-air.co.uk/

## MITSUBISHI CHEMICAL ADVANCED MATERIALS Inc.

201 Industrial Drive  
Delmont  
PA  
15626  
USA

**Contact:** Mr Edward Zibert  
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**T:** + 1 724 468 7031  
**E:** edward.zibert@mcgc.com  
**W:** www.mcam.com/na-en/  
**F:** + 1 724 468 4044  
*Polymer liners for self-unloading ships, hoppers, chutes, bins, railcars, silos. SystemTIVAR Engineering designs, fabricates and installs lining systems worldwide to promote bulk material flow, featuring industry-leading low coefficient of friction and abrasion-resistant TIVAR® family of products.*

## MITSUI MIKE MACHINERY Co., Ltd.

Nihonbashi-Muromachi 2-1-1  
Chuo-ku  
Tokyo  
103-0022  
Japan

**Contact:** Mr Hachiro Naito  
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**T:** + 81 3 3270 2001  
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**F:** + 81 3 3245 0203

## MOBILE CONVEYING SERVICES PTY LTD

631 Uhlmann Rd  
Burpengary  
QLD  
4505  
Australia

**Contact:** Mr Steve Valpreda  
**Job Title:** Business Development Manager  
**T:** + 61 1300 665 409  
**E:** steve.v@mobileconveyors.com.au  
**W:** www.mobileconveyors.com.au/



**MOFFATT & NICHOL**

2nd Floor  
93 Southwark Street  
London  
SE1 0HX  
UK  
**Contact:** Ms Karen Levy  
**Job Title:** Business Development Management  
**T:** + 44 1252 516 398  
**E:** klevy@moffattnichol.com  
**W:** www.moffattnichol.com

**MOLE MASTER****SERVICES CORPORATION™**

27815 State Route 7  
Marietta  
Ohio  
45750  
USA  
**Contact:** Mr Michael Bailey  
**Job Title:** General Manager  
**T:** + 1 740 374 6726  
**E:** mbailey@molemaster.com  
**W:** www.molemaster.com  
**F:** + 1 740 374 5908  
*In addition: Silo cleaning services and equipment. Silo, bin, bunker, transport and process vessel cleaning, clearing and unclogging services and equipment.*

**MONOLITHIC CONSTRUCTORS, Inc.**

177 Dome Park Place  
Italy  
Texas  
76651  
USA  
**Contact:** Mr Michael South  
**Job Title:** President  
**T:** + 1 972 483 7423  
**E:** sales@monolithic.com  
**W:** www.monolithic.com

**MOTRIDAL SPA**

Via Pietro Bubba 17  
Piacenza  
Piacenza  
29122  
Italy  
**Contact:** Mr Giampietro Calvi  
**Job Title:** Sales Director  
**T:** + 39 0523 59 66 11  
**E:** motridal@motridal.com  
**W:** www.motridal.com  
**F:** + 39 0523 59 01 28  
*Specialist, with over 65 years experience, in engineering and supply of complete bulk material handling systems in all industrial sectors. In house products line includes screw, chain, belt and pipe conveyors, bucket elevators, stackers and reclaimers. Worldwide operation.*

**MRS GREIFER GmbH**

Talweg 15-17  
Helmstadt-Bargen  
D-74921  
Germany  
**Contact:** Mr Peter Koerting  
**T:** + 49 7263 9129 20  
**E:** export@mrs-greifer.de  
**W:** www.mrs-greifer.de  
**F:** + 49 7263 9129 12  
*Approaching more than 40 years experience in producing all types of grabs. The company's product range includes mechanical grabs, radio-controlled, hydraulic and electro-hydraulic grabs. MRS has an excellent after-sales and repair service, provides spare parts from stock and supplies parts for a long period after delivery.*

**MTECK**

Delta-Industrieweg 15  
Stellendam  
LX  
3251  
The Netherlands  
**Contact:** Mr Martijn van Eck  
**Job Title:** Owner  
**T:** + 31 187 64 53 74  
**E:** info@mteck.nl  
**W:** https://mteck.nl/

**N.M. HEILIG B.V.**

Newtonstraat 17  
Heerhugowaard  
1704 SB  
The Netherlands  
**Contact:** Ms Silvia Veldboer  
**Job Title:** Marketing & Communication  
**T:** + 31 88 1704 200  
**E:** marketing@heilig-group.com  
**W:** www.heiligbv.com  
*N.M. Heilig B.V. (part of Heilig Group) is a European based company specialized in manufacturing bulk handling- and recycling systems. We provide:*  
*- Custom design & engineering*  
*- High quality production facilities*  
*- Experienced assembly & service staff*  
*We are a family business, with more than 43 years of market experience and more than 250 employees.*  
*Other equipment: Mobile (tracked) stackers, conveyors and feeders.*

**NANJING PORT-MACHINERY & HEAVY-INDUSTRY MANUFACTURE Co., Ltd (NPHMC)**

No. 8 Tianzihao Road  
Longtan Street  
Nanjing  
Qixia District  
China  
**Contact:** Mr Xing Wangyin  
**Job Title:** Sales Manager  
**T:** + 86 25 58582591/2592  
**E:** njmpsales@nphmc.com  
**W:** njmp.com

**NANTONG RAINBOW HEAVY MACHINERIES Co.,Ltd.**

NO.88.Rongsheng Road(chenqiao),  
Nantong Marine Equipment Industrial Zone  
Nantong  
Jiangsu  
China  
**Contact:** Mr Julien Zhu  
**Job Title:** Brand Promotion  
**T:** + 86 513 80108718  
**E:** genma@rainbowcoglobal.com  
**W:** www.genmasolution.com  
*The proprietary brand GENMA of RHM is established to provide heavy machineries equipment's applied in Industrial Cranes, Metallurgy Cranes, Port Cranes, Offshore Cranes & Bulk Material Handling Equipment's. GENMA is specialized in material handling, which mainly includes 3 parts:*  
*1.Intelligent Port Material Handling Equipment*  
*2.Offshore Engineering Equipment*  
*3.Factory and Mines Material Handling Equipment*  
*Besides the standard equipment, GENMA can also provide the tailor-made equipment and solution with the customers. Till now, we have exported the products over 20 countries. Our specialty, your strength- GENMA's methodology, to help multi-industry clients benefiting from our product and service.*

**NANTONG UP MACHINERY ENGINEERING Co., Ltd**

No.6 Shuanggong Road  
Qutang Town  
Hai'an County  
Nantong City  
Jiangsu Province  
China  
**Contact:** Xu Fuping  
**Job Title:** Marketing Manager  
**T:** + 86 182 5289 699  
**E:** jsntup@163.com

**W:** www.upmachinery.com.cn  
**F:** +86 513 8879 0811

**NATURAL GRABS**

Toros Caddesi Fethi bey sokak no 11  
Natural Business Center  
Maltepe  
Istanbul  
Turkey  
**Contact:** Cpt Hayrettin Yakut  
**T:** + 90 216 380 60 03  
**E:** sales@naturalgrab.com  
**W:** www.naturalgrab.com/  
**F:** + 90 216 380 65 59

**NAVCO (NATIONAL AIR VIBRATOR Co)**

PO Box 40563  
Houston  
TX  
77240-0563  
USA  
**Contact:** Mr Justin Gill  
**Job Title:** B2B Marketing  
**T:** + 1 832 467 3636  
**E:** ben@navco.us  
**W:** www.navco.us  
**F:** + 1 832 467 3800

**NAVONUS NV**

Voorhavenlaan 14B  
Ghent  
B-9000  
Belgium  
**Contact:** Mr Josie Peiffer  
**Job Title:** Head of Supervision  
**T:** + 32 9 345 89 77  
**E:** supervision@navonus.be  
**W:** https://navonus.be/

**NEGRINI SRL**

via E. Torricelli n.4  
Castelfranco Emilia  
Modena  
41013  
Italy  
**Contact:** Mr Massimo Negri  
**Job Title:** Managing Director  
**T:** + 39 059 923110  
**E:** info@negrini.org  
**W:** www.negrini.org  
**F:** + 39 059 920378  
*Engineers and producers of state-of-the-art grabs, clamshells and buckets.*

**NEMAG BV**

Deltastraat 15  
Zierikzee  
4301 RC  
The Netherlands  
**Contact:** Mr Rudy Bovée  
**Job Title:** Account Manager  
**T:** + 31 6 51 426 882  
**E:** rudy.bovee@nemag.com  
**W:** www.nemag.com  
*Specialized in the sales, engineering and construction of rope operated grabs for large scale dry bulk handling. The company has a vast record of worldwide deliveries and is recognized as one of the leading grab manufacturers worldwide.*  
*Other equipment: NEMAG Quick Release Links and Rope Pear Sockets.*

**NEUERO INDUSTRIETECHNIK GmbH**

Neuerostrasse 1  
Melle  
D-49324  
Germany  
**Contact:** Eng. Andreas Haeuser  
**Job Title:** Sales & Project Manager  
**T:** + 49 5422 9503 26  
**E:** a.haeuser@neuero.de  
**W:** www.neuero.com  
**F:** + 49 5422 9503 50  
*NEUERO designs and manufactures a wide range of pneumatic and mechanical ship/barge unloaders, ship/barge loaders and pneumatic conveyors, with high capacities and gentle handling of materials.*

**NILOS GmbH & Co KG**

Reisholzstrasse 15  
Hilden  
40709  
Germany  
**Contact:** Ms Simone Ickert  
**Job Title:** Marketing Manager  
**T:** + 49 21 039 51141  
**E:** lea.delius@nilos.de  
**W:** www.nilos.com  
**F:** + 49 21 039 51209  
*Conveyor belt equipment ranges from simple small tools to vulcanising presses up to the planning, construction and commissioning of complete conveyor belt repair workshops. Range of products include hot and cold repair material, along with basic overhauling, reconditioning, maintenance and assemblies.*

**NK TEHNOLOGIJA SIA**

120Z Dzelzavas Street  
Riga  
LV-1021  
Latvia  
**Contact:** Mr Aleksejs Busils  
**Job Title:** Sales Manager  
**T:** + 371 67271092  
**E:** nkteh@nkteh.com  
**W:** www.nkteh.com  
**F:** + 371 67271038  
*Custom engineering and integrated solutions for dry bulk handling: shiploaders manufacturing, dry bulk terminals efficiency analysis & development. Assembling, disassembling, service & maintenance of crane equipment.*

**NKM NOELL SPECIAL CRANES**

Kruisweg 643  
Hoofddorp  
2132 NC  
The Netherlands  
**Contact:** Mr Jaap Dijkman  
**Job Title:** BL Director BU LARGE SYSTEMS & CRANES  
**T:** + 31 20 655 0042  
**E:** jaap.dijkman@nkmnoell.com  
**W:** www.nkmnoell.com/  
*NKM Noell Special Cranes is a global leader in delivering complex and robust lifting and handling equipment to sectors where safety and reliability are major concerns.*

**NMH S.R.O**

Priemyselná 4608/10  
Sered  
926 01  
Slovakia  
**Contact:** Ms Veronika Kreml  
**Job Title:** Marketing Manager  
**T:** + 42 131 230 4441  
**E:** v.kreml@nmh-sro.com  
**W:** www.nmh-sro.com

**NOELL CRANE SYSTEMS (CHINA) LTD**

China Merchants  
Zhangzhou Development Zone  
Fujian  
363105  
China  
**T:** + 86 596 6851 888  
**E:** xia.info@terexnoell.com  
**W:** www.noellchina.com  
**F:** + 86 596 6851 889

**NORDA STELO**

1015, av. Wilfrid-Pelletier,  
Office 200  
Quebec  
QC  
G1W 0C4  
Canada  
**Contact:** Ms Christine Christine  
**Job Title:** Director of Marketing  
**T:** + 1 418 654 9600  
**E:** christine.sauvageau@norda.com  
**W:** https://norda.com/

**NORTHERN HEAVY INDUSTRIES GROUP Co., Ltd.**

No.16 Kaifa Road  
Shenyang Economic & Technological Dvpt Zone  
Shenyang  
110141  
China  
**Contact:** Mr John Lee  
**Job Title:** Marketing Director  
**E:** project@nhisales.com  
**W:** https://nhisales.com/

**NSL ENGINEERING PTE LTD**

41 Tillock Street  
Haberfield  
Sydney  
NSW  
2045  
Australia  
**Contact:** Mr Cameron Hay  
**Job Title:** Sales & Marketing Manager  
**T:** + 61 297 972054  
**E:** cameron@ramspreaders.com  
**W:** www.ramspreaders.com/  
**F:** + 65 626 11300

**O.Z. HENNLICH ENGINEERING**

HENNLICH s.r.o.  
Ceskolipská 9  
Litoměřice  
412 01  
Czech Republic  
**Contact:** Mr Jan Petruzalek  
**Job Title:** Head of the Sales Department  
Sales Director  
**T:** + 420 416 711 357  
**E:** engineering@hennlich.cz  
**W:** www.hennlich.cz/engineering  
**F:** + 420 416 711 999

**OPS CRUSHING & SCREENING**

40 Miguel Road  
Bibra Lake  
Western Australia  
6163  
Australia  
**Contact:** Mr Gerry McGuigan  
**Job Title:** Sales Manager  
Sales Manager  
**T:** +61405819035  
**E:** gerry@opsaust.com.au  
**W:** https://opsaust.com.au/

**ORTHOX PROJECTS LTD.**

Fernie Road  
Market Harborough  
Leicestershire  
LE16 7PH  
UK  
**Contact:** Mr Nick Hall  
**Job Title:** Director  
**T:** + 44 1858 462806  
**E:** Nick.Hall@orthoprojects.com  
**W:** www.orthoprojects.com  
**F:** + 44 1858 464403  
*Since 1977 Orthos Projects have designed, manufactured and installed bulk solids raw materials handling plant to the highest specification. Best qualified to serve the Port, Bulk Handling, Quarry, Foundry, Recycling and related industries. Special purpose machine design, conveyor systems to ISO 9001 (2008).*

**ORTS GmbH MASCHINENFABRIK**

Schwartauer Strasse 99  
Sereetz  
D-23611  
Germany  
**Contact:** Herr Sigvard Orts  
**T:** + 49 451 3988515  
**E:** info@orts-gmbh.de  
**W:** www.orts-grabs.de  
**F:** + 49 451 392374  
*Made in Germany: Electro-hydraulic grabs, independent diesel-hydraulic grabs,*

*mechanical rope grabs. For bulk, scrap, dredging, salvage. Repairs (also grabs from other makers) and spare parts. Crane-equipment for electro-hydraulic grabs. Lifting beams (max. load 150t) and flat- frames.*

**OVERLAND CONVEYOR COMPANY**

6400 S. Fiddler's Green Circle  
Suite 550  
Greenwood Village  
CO  
80111  
USA  
**Contact:** Ms Chelsea Toppin  
**T:** +1 303 973 7357  
**E:** info@overlandconveyor.com  
**W:** www.overlandconveyor.com/

**P.T. MITRA S.K.**

**ANALISA TESTAMA**  
Pulogading Trade Centre, Block 8H No 7  
Jl. Raya Bekasi Km 21  
Kawasan Industri  
Jakarta  
13930  
Indonesia  
**Contact:** Ms Mina Hermina  
**Job Title:** Marketing Manager  
**T:** + 62 21 4680 1210  
**E:** mina@mitrask.com  
**W:** www.mitrask.com/  
**F:** + 62 21 4680 0716

**PAGE MACRAE ENGINEERING**

PO Box 4050  
Mount Maunganui  
Bay of Plenty  
3149  
New Zealand  
**Job Title:** Business Development Manager  
**T:** + 64 7 575 5079  
**E:** enquiries@page-macrae.co.nz  
**W:** www.page-macrae.co.nz  
*With over 65 years of engineering experience, Page Macrae Engineering is regarded as a leading manufacturer of ship cargo handling equipment. The company's bulk handling expertise covers the complete concept, design, build and commission process. The company has a reputation for delivering high quality equipment that is robust, low maintenance and highly productive, regardless of conditions and loads.*

**PAKIE**

82-103 Stegna  
Rybina 43  
Gdansk  
Poland  
**Contact:** Mr Piotr Rzeszutek  
**Job Title:** Director  
**T:** + 48 55 247 17 70 ext.32  
**E:** e.rybicka@pakiet.com  
**W:** https://pakiet.com

**PARKER HANNIFIN MANUFACTURING LTD.**

President Park  
President Way  
Sheffield  
South Yorkshire  
S4 7UR  
UK  
**Contact:** Ms Olga Kraslinikova  
**Job Title:** Piping Product Marketing Manager  
**T:** + 31 615118582  
**E:** olga.kraslinikova@parker.com  
**W:** www.parker.com  
*Parker equipment is important as poor-quality coal with high ash content could be rejected, at huge cost. Our products are accurate compared to laboratory analysis enabling real time decision making. Coal Quality Monitoring Systems, Conflow Dust Suppression.*



## PARKER PLANT LTD

Viaduct Works  
Canon Street  
Leicester  
Leicestershire  
LE4 6GH  
UK  
**Contact:** Mr Brett Dalby  
**Job Title:** Marketing & Sales Director  
**T:** + 44 116 266 5999  
**E:** sales@parkerplant.com  
**W:** www.parkerplant.com  
**F:** + 44 116 261 0812  
*Manufactures a complete range of conveyor systems and components.*

## PEBCO® Inc

225 N 4th Street  
Paducah  
Kentucky  
42001  
USA  
**Contact:** Mr David Finke  
**Job Title:** President and COO  
**T:** + 1 270 442 1996  
**E:** sales@pebco.com  
**W:** www.pebco.com  
**F:** + 1 270 442 5214  
*PEBCO® designs and engineers a wide variety of products; slide gates, diverters, air slides, dustless loading spouts, dust suppression systems, telescopic chutes, and more for the dry bulk solids industry. From mining to processing plants or loading and unloading transport vessels; anywhere the flow of dry bulk solids needs to be controlled.*

## PEINEMANN CRANES

Nieuwe Langeweg 40  
Hoogvliet  
DB 3194  
The Netherlands  
**Contact:** Mr Andrew Pauw  
**Job Title:** Managing Director  
**T:** + 31 10 295 50 00  
**E:** andrew.pauw@peinemann.nl  
**W:** www.peinemann.nl  
**F:** + 31 10 295 50 49

## PEINER SMAG LIFTING TECHNOLOGIES GmbH

  
Windmühlenbergstraße 20-22  
Salzgitter  
D-38259  
Germany  
**Contact:** Mr Günther Ribeiro-Vinzenz  
**Job Title:** Sales Director  
**T:** + 49 5341 302 647  
**E:** sales-grabs@peiner-smag.com  
**W:** www.peiner-smag.com  
**F:** + 49 5341 302 424  
*Other equipment: slewing units for rotating and positioning loads. Manufacturer and supplier of a wide range of grabs and other lifting equipment, e.g. motor grabs, single-, two- and four-rope grabs, scissor grabs, hydraulic grabs as well as rotators and special grabs for all kinds of bulk materials in a variety of industries, such as ports, ships, steel mills, waste-to-energy plants and recycling businesses.*

## PENKERT GmbH

Xantener Str.12  
Mülheim an der Ruhr  
NRW  
45479  
Germany  
**Contact:** Mrs Marina Brunner  
**Job Title:** Marketing Manager  
**E:** marina.brunner@penkert-gmbh.de  
**W:** www.penkert-gmbh.de  
*Since 1967, the company Penkert GmbH has been one of the leading manufacturers of high-quality occupational safety products. In addition to the manufacture of body protection articles with a focus on EN standard-compliant protective gloves, the company offers*

*protective sheathing for moving machine parts with a focus on bellows and loading hoses.*

## PETERSON CONTROL UNION

Boompjes 270  
Rotterdam  
3011 XZ  
The Netherlands  
**Contact:** Mr Arno Maehlmann  
**T:** + 31 10 282 3333  
**E:** bulkoperations@onepeter.com  
**W:** www.controlunion.com/  
**F:** + 31 10 282 3282

## PFISTER WAAGEN BILANCIAL GmbH

Linker Kreuthweg 9  
Affing-Mühlhausen  
D-86444  
Germany  
**Contact:** Ms Susanne Geller-Dür  
**Job Title:** Marketing and Sales Manager  
**T:** + 49 82 07 9 58 99 28  
**E:** marketing@pfisterwaagen.de  
**W:** www.pfisterwaagen.de  
**F:** + 49 82 07 9 58 99 29  
*Founded in 1894 as a manufacturer of mechanical weighbridges. Suppliers of innovative, high quality, fully electronic weighing systems, incorporated in data networks, capturing and processing weighing data in cost-efficient control systems. Specialized in truck weighbridges, railway scales, weighing software.*

## PHB WESERHÜTTE, S.A.

Parque Científico y Tecnológico de Gijón  
C/Ada Byron, 220  
Gijón  
Asturias  
33203  
Spain  
**Contact:** Dr Jose Ramón Prado  
**Job Title:** Technical & Commercial Director  
**T:** + 34 984 495 640 / + 34 984 49 55 00  
**E:** jrprado@pwh.es  
**W:** www.grupotks.com/  
**F:** + 34 985 134 222  
*Efficient port systems, handling all types of bulk solids such as coal, iron ore, bauxite, fertilizers, clinker, cement and general cargo, with different solutions for maritime or river ports. Design of circular or longitudinal stockyards combining a wide range of reclaimers and different types of stackers.*

## PHOENIX CONVEYOR BELT SYSTEMS GmbH

Hannoversche Strasse 100  
Hamburg  
21079  
Germany  
**T:** + 49 40 7667 03  
**E:** info@phoenix-cbs.com  
**W:** www.phoenix-conveyorbelts.com  
**F:** + 49 40 7667 2413  
*With more than 110 years of experience, the world leader for high performance heavy-duty conveyor belts, serving the worldwide bulk handling industry. The programme includes textile and steel cord conveyor belts for underground and surface applications.*

## PLM CRANES B.V.

Sluisweg 21-25  
Heijningen  
4794 SW  
The Netherlands  
**Contact:** Mr Pieter Puleman  
**Job Title:** Managing Director  
**T:** + 31 167 528 510  
**E:** info@plmcranes.com  
**W:** www.plmcranes.com  
**F:** + 31 167 524444  
*We build hydraulic and electric cranes from 50 to 2000 tm with*

*a transhipment capacity up to approx. 2000 ton/hour. We are specialized in shipboard cranes, mobile cranes and harbour cranes for dredging, transshipping, hoisting and pile-driving.*

## PNEUMAT SYSTEMS INC

110 Mohr Dr  
Mankato  
MN  
56001  
USA  
**Contact:** Mr Sam Cebula  
**Job Title:** Sales and Marketing Manager  
**T:** + 1 507 345 4553  
**E:** info@pneumat.com  
**W:** http://pneumat.com/  
**F:** + 1 507 345 3639  
*Pneumat's equipment is designed to keep bulk flowing in your facility...safer, faster and easier. Our unique solutions are used worldwide to solve a wide array of flow problems.*

## POLYMER INDUSTRIES - ULTRAPOLY DIVISION

2404 Center Street  
Tacoma  
WA  
98409-7638  
USA  
**Contact:** Mr Bryan Olin  
**T:** + 1 253 272 1217  
**E:** bryan.olin@polymerindustries.com  
**W:** www.polymerindustries.com  
**F:** + 1 253 272 1457  
*Tough, self-lubricating Ultra Poly Ultra High Molecular Weight polyethylene provides durable protection for metal surfaces and eliminates noise associated with metal-on-metal contact. And its slick, nonstick properties assure unimpeded flow of materials, even under wet, sticky or freezing conditions.*

## PORT & TERMINAL SOLUTIONS LLC

Pittsburgh  
Pennsylvania  
USA  
**Contact:** Mr Brian Steffan  
**Job Title:** Owner  
**T:** + 1 412 944 9554  
**E:** bsteffan@portandterminalsolutions.com  
**W:** www.portandterminalsolutions.com

## PORT-TRADE AS

Karelmagervej 9  
Fredericia  
DK 7000  
Denmark  
**Contact:** Mr Peter J Muller  
**Job Title:** Managing Director  
**T:** + 45 7628 0102  
**E:** peter.muller@port-trade.com  
**W:** www.port-trade.com  
**F:** + 45 7628 0103  
*Port-Trade is a Danish company with more than thirty years of experience with cargo handling systems, including mobile harbour cranes, container spreaders, bulk handling grabs, and loading equipment. Port-Trade provides analyses of customer requirements and proposes and delivers complete equipment solutions.*

## POWERSCREEN

200 Coalisland Road  
Dungannon  
County Tyrone  
BT71 4DR  
Northern Ireland  
**Contact:** Mrs Dearbhaile Mulholland  
**Job Title:** Marketing  
**T:** + 44 288 77 18500  
**E:** sales@powerscreen.com  
**W:** www.powerscreen.com  
**F:** + 44 288 77 47231  
*Powerscreen manufactures a complete range of mobile crushing, screening and*

*conveying equipment. Over 50 machines meet the needs of customers operating in a wide range of applications: from aggregate and sand production to processing compost, construction and demolition waste and other recycled waste materials.*

## PRDW CONSULTING PORT AND COASTAL ENGINEERS

Alonso de Córdova 5900  
10th Floor  
Las Condes  
Santiago  
Chile  
**Contact:** Mr César Guzmán  
**Job Title:** Business Manager  
**Team Leader**  
**T:** + 56 2 26942000  
**E:** business.cl@prdw.com  
**W:** www.prdw.com  
*A world class port and coastal engineering consultancy dedicated to the delivery of enhanced client value in the design of marine infrastructure.*

## PRECIA-MOLEN NEDERLAND BV

Fransé Akker 1  
Breda  
4824 AL  
The Netherlands  
**Contact:** Mrs Monique Kuijper-Heessels  
**Job Title:** Communication & Marketing  
**T:** + 31 76 524 2513  
**E:** sales.nl@preciamol.nl  
**W:** www.preciamol.nl  
**F:** + 31 76 522 8039  
*At the forefront of the industry, has provided weighing solutions for more than 147 years and established a worldwide reputation for quality and reliability. The large product range consists of weighbridges; bulk, belt, bagging, platform and aircraft weighing check-in scales; load cells, indicators, controllers and truck dumpers.*

## PREMIER TECH CHRONOS B.V.

Meerheide 40  
Eersel  
Noord Brabant  
5521 DZ  
The Netherlands  
**Contact:** Ms Marie-Pier Vallée  
**Job Title:** Communications Coordinator  
**T:** + 31 497 514 988  
**E:** valm2@premiertech.com  
**W:** www.ptchronos.com

## PROCON ENGINEERING LIMITED

Vestry Estate  
Oxford Road  
Sevenoaks  
Kent  
TN14 5EL  
UK  
**Contact:** Mr Ian Hall  
**T:** + 44 1732 781 300  
**E:** joe.naylor@proconeng.com  
**W:** www.proconeng.com  
**F:** + 44 1732 781 311  
*Continuous digital belt weighing and weighing feeding systems - capacities - 12,000 max tph, 9 m/s speed, 400-2400 belt widths. Batch weighing, Loss in weight, and Level weighing.*

## PROSTACK

Terex Materials Processing  
20 Keans Hill Road  
Campsie Industrial Estate  
Campsie, Co. Derry  
Ulster  
BT47 3YT  
Northern Ireland  
**Contact:** Mr Declan McErlain  
**Job Title:** Marketing Manager  
**T:** + 44 7826 956955  
**E:** declan.mcerlain@terex.com  
**W:** www.terex.com/prostack

## PSB INSPECTION

George Stephensonweg 1  
Vlaardingen  
South-Holland  
3133KJ  
The Netherlands  
**Contact:** Mrs Peter Bagchus  
**Job Title:** Managing Director  
**T:** + 31 10 313 89 08  
**E:** info@psbinspection.com  
**W:** http://psbinspection.com/nl  
*Inspection, sampling, sample preparation, weight assessment and gas/toxoid measurement are part of our service portfolio which we render globally (www.psbinspection.com).*

## PT ARMADA ROCK KARUNIA

TRANSHIPMENT  
AIA Central Building 33rd Floor  
Jl. Jend. Sudirman Kav. 48 A  
Jakarta  
South Jakarta  
12930  
Indonesia  
**Contact:** Mr Frans Martin  
Hasiholan  
**Job Title:** Manager  
**T:** + 62 817 609 8883  
**E:** enquiry@ark-transshipment.com  
**W:** www.ark-transshipment.com  
**F:** + 62 21 2525 928

## PT ASIAN BULK LOGISTICS

Menara Karya 20th floor Unit D  
Jl. HR Rasuna Said Block X-5  
Kav 1-2  
Jakarta  
12950  
Indonesia  
**Contact:** Mr Anant Bahl  
**Job Title:** General Manager  
**T:** + 62 21 5785 1960  
**E:** Anant.Bahl@abl.co.id  
**W:** https://abl.co.id/  
**F:** + 62 21 5785 1959

## PT BOMA BISMA INDRA

Jl. KHM Mansyur No. 229  
Surabaya  
East java  
60162  
Indonesia  
**Contact:** Mr Sandy Gitu Loh  
**Job Title:** Engineer  
**T:** + 62 89637776242  
**E:** sandygituloh22@gmail.com  
**W:** www.ptbci.co.id

## PT BUKAKA TEKNIK UTAMA

Jl. Raya Bekasi Narogong Km 19,5  
Cileungsi Bogor  
Jakarta  
16820  
Indonesia  
**Contact:** Mr Achmad Kalla  
**Job Title:** Director  
**T:** + 62 21 823 1146  
**E:** bdv@bukaka.com  
**W:** www.bukaka.com  
**F:** + 62 21 823 2323

## PT CARSURIN

Neo Soho Capital Lt. 28  
Jl. Letjen S. Parman Kav. 28  
Grogol Petamburan  
West Jakarta  
DKI Jakarta  
11470  
Indonesia  
**Contact:** Mr Hal Loevy  
**Job Title:** Director Corporate Strategy & Business Development  
**T:** + 62 21 5022 6868  
**E:** headoffice@carsurin.com  
**W:** www.carsurin.com  
**F:** + 62 21 5022 6868  
*Established in 1968, PT CARSURIN is the largest privately owned Inspection, Testing and Verification company in Indonesia, with a growing international presence. We provide independent third party services to mitigate risk for our clients across a broad range of industries including Coal. We are the only*

*independent Indonesian member of the International Federation of Inspection Agencies and are the sole Lloyd's Agent in Indonesia.*

## PT GEOSERVICES

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Bandung  
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40291  
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**E:** jktbranch@geoservices.co.id  
**W:** www.geoservices.co.id

## PT JAKARTA PRIMA CRANES

Wisma JPC  
Jl. Mampang Prapatan Raya No. 20  
Jakarta  
12760  
Indonesia  
**Contact:** Mr Tony Haryono  
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**E:** tonydio@jpc.co.id  
**W:** www.jpc.co.id

## PT MBSS

Gedung Menara Karya  
Jl. HR Rasuna Said  
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South Jakarta  
12950  
Indonesia  
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**W:** www.mbss.co.id

## PT MITRA BAHTERA

### SEGARASEJATI

Menara Karya 12th Floor  
Jl. H R Rasuna Said Block X-5  
Kav 1-2 Kuningan  
Jakarta  
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Indonesia  
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**T:** + 62 21 5794 4755  
**E:** corporate.communication@mbss.co.id  
**W:** www.mbss.co.id  
**F:** + 62 21 5794 4767

## PT PAMAPERSADA NUSANTARA

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Pulo Gadung  
Jakarta  
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**W:** www.pamapersada.com  
**F:** + 62 21 460 1916

## PT SPANSET INDONESIA

Jl. Marunda Center Blok F No.20  
Segara Makmur  
Tarumajaya  
Bekasi  
Jawa Barat  
14350  
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**Job Title:** Commercial Manager  
**T:** + 62 21 28510077  
**E:** sales@spanset.co.id  
**W:** www.spanset.co.id  
*PT SpanSet Indonesia as one of the authorized distributor for Bridon, Kiswire , Usha Martin and Verope is the member of Association of Wire Rope Fabricators (AWRF). We always provide the highest quality product and services in wire rope applications.*



## PT THIESS CONTRACTORS

### INDONESIA

Ratu Prabu 2  
Ratu Prabu 2  
Jl. TB. Simatupang Kav. 18  
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12560  
Indonesia  
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T: + 62 21 2754 9999  
E: thiess@thiess.co.id  
W: www.thiess.co.id  
F: + 62 21 2754 9800

## PT. BANDO INDONESIA

Wisma Hayam Wuruk, 6th floor, Suite 600  
Jln. Hayam Wuruk No. 8  
Jakarta  
10120  
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**Contact:** Mr Budi Widjaya  
**Job Title:** Mining Division  
T: + 62 21 3517590  
E: vbelt.div@bandoindonesia.com  
W: www.bandoindonesia.com  
F: + 62 21 3517591  
PT. Bando, established in 1987, is one of the leading automotive and industrial power transmission belt manufacturers in Indonesia. It has one main plant located in Tangerang and its marketing office located in Central Jakarta.

## PT. HARDJADINATA PRATAMA

### INTERNASIONAL

Ruko Mega Grosir Cempaka Mas Blok J No. 48, Jl. L  
Jakarta Pusat  
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10640  
Indonesia  
**Contact:** Mr David Hardjadinata  
**Job Title:** Director  
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## PT. LELANGON

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W: www.lelangon.com  
F: + 62 31 7882912

## PT. THERMALINDO SARANA LABORTORIA

Jl. Daan Mogot II No. 100J  
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11510  
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**Contact:** Mr Eduard Sasmita  
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T: + 62 21 566 3057  
E: edo@thermalindo.com  
W: www.thermalindo.com/  
F: + 62 21 566 2795

## QCA SYSTEMS LTD.

101-6951 72 St  
Delta  
BC  
V4G 0A2  
Canada  
**Contact:** Mr Craig Pearce  
**Job Title:** Director, Sales & Marketing  
T: + 1 604 908 5835  
E: cpearce@qcasystems.com  
W: https://qcasystems.com/  
QCA Systems Ltd is one of the largest private turn-key electrical engineering and integration firms in British Columbia. Operating for almost 30 years, and a recognized Rockwell Automation Solution Partner, we provide Industrial Electrical, Automation, IT and data analytics services to clients in various industries. Our engineers, designers, drafters, technicians and other staff deliver cost-effective, efficient solutions, supporting a wide variety of technology platforms.

## QINGDAO HAIXI HEAVY-DUTY MACHINERY CO. LTD

No. 1597, Jiulongshan Road  
Huangdao District  
Qingdao  
China  
T: + 86 53255711351  
E: ibd@qdhhmc.com  
F: + 86 53255711352

## QINGDAO HUAXIA RUBBER INDUSTRY CO. LTD.

No. 146, Chengma Road  
Tongji District  
Jimo  
Qingdao  
Shandong  
266228  
China  
**Contact:** Mrs Molly Shi  
**Job Title:** Sales Manager  
T: + 86 137 8985 9616  
E: conveyorbelt@huaxiarubber.cn, molly.shi@huaxiarubber.cn  
W: www.huaxiarubber.cn

F: + 86 532 8251 9238  
Qingdao Huaxia Rubber Industry Co., Ltd. supplied first-class quality rubber conveyor belts with competitive price to iron ores/copper/diamond mining, tunneling, metallurgy, steel works, ports. In ISO 15236, DIN 22102/DIN 22131, EN14973, AS, SANS, BS, JIS standard.

## QUALITY HANDLING SYSTEMS PTY LTD (PART OF CONSEP PTY LTD)

46 Newton Road  
Wetherill Park  
Sydney  
NSW  
2164  
Australia  
**Contact:** Mr Peter Skoljarev  
**Job Title:** Project Engineer  
T: +61 2 9756 5299  
E: pskoljarev@consep.com.au  
W: www.consep.com.au  
Design and supply of mechanical sampling systems for the coal industry. Can also review existing systems to improve their reliability and accuracy. Design and supply robust screening solutions tailored for precision sorting, sizing and dewatering.

## QUANERGY

433 Lakeside Drive  
Sunnyvale  
CA  
94085  
USA  
**Contact:** Ms Andy Steen  
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T: + 1 408 245 9500  
E: info@quanergy.com  
W: https://quanergy.com/  
F: + 1 408 245 9503

## QUARRY MINING LLC

PO Box 9593  
Ras Al Khaimah  
Ras al-Khaimah  
11111  
UAE  
**Contact:** Mr Michael Schmidt  
**Job Title:** Senior Director Engineering Department  
T: + 971 7268 9799 ext13  
E: michael.schmidt@quarrymining.net  
W: www.quarrymining.net  
With full in-house capability for structural steel manufacture to European standards we design, manufacture, supply and install quality products, such as standard conveyors of any width and load capacity, conveyor systems, including downhill version with power

generation, but also truck loading & unloading stations and ship loading and unloading systems.

## QUBE PORTS & BULK

Level 22  
44 Market Street  
Sydney  
NSW  
2000  
Australia  
**Contact:** Mr Todd Emmert  
**Job Title:** Director – Bulk  
T: + 61 2 9005 1100  
E: bulk@qube.com.au  
W: www.qube.com.au/ports-and-bulk  
F: + 61 2 9005 1101

## R & S SRL / RONCUZZI - WAM GROUP

Via del Cmapo Sportuo 40  
Mezzana  
48123  
Italy  
**Contact:** Mr. Silvio Banzi  
**Job Title:** Communications Manager  
T: + 39 0535 61 81 11  
E: info@wamgroup.com  
W: www.roncuZZi.com  
Designs and builds green hoppers, belt conveyors and transhipment plant for coal, cereals, mineral.

## RAM LIFTING TECHNOLOGIES

6 Selby Place  
Stanley  
Skelmersdale  
Lancashire  
WN8 8EF  
UK  
**Contact:** Mr Patrick Draper  
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T: + 44 1695 556355  
E: p.draper@ramspreaders.com  
W: www.ramspreaders.com/  
F: + 44 1695 556356  
RAM Spreaders, one of the leading manufacturers and suppliers of container handling equipment for over 40 years have developed their environmental friendly RAM Revolver® for dust free containerized bulk handling solutions in association with specialist container suppliers.

## RAPAT CORPORATION

919 O'Donnell Street  
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MN  
56549-4310  
USA  
**Contact:** Mr Justin Koenig  
**Job Title:** Industrial Sales

Manager  
T: + 1 218 483 3344  
E: info@rapat.com  
W: www.rapat.com/

## RBL REI

15 rue du Moulin des Landes  
CS 50159 – Saint Sylvain d'Anjou  
Cedex  
Verrieres en Anjou  
49481  
France  
**Contact:** Mr David Nirefois  
**Job Title:** Ports Terminals Sector Manager  
T: + 33 2 41 21 19 40  
E: d.nirefois@rbirei-france.com  
W: www.rbirei-france.com  
F: + 33 2 41 21 19 59

## RBL-REI FRANCE

140 bis rue de Rennes  
Paris  
Cedex 14  
75006  
France  
**Contact:** Mr David Nirefois  
**Job Title:** Handling Process Manager  
T: + 33 2 41 21 13 82 (dct) / + 33 2 41 21 19 40  
E: d.nirefois@rbirei-france.com  
W: www.rbirei-france.com  
F: + 33 2 41 21 19 59  
Designs, builds and supplies continuous bulk handling belt conveyor systems and associated equipment, stackers up to 10,000 tph, reclaimers up to 15,000 tph and shiploaders up to 3,000 tph.

## RC INSPECTION B.V

Gustoweg 66  
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NL 3029  
The Netherlands  
**Contact:** Ms Birgit Bender  
**Job Title:** Sales and Marketing Manager  
T: + 31 610 742 140 / + 31 10 425 0237  
E: Birgit.Bender@rc-inspection.com  
W: www.rc-inspection.com/  
RC inspection is an independent inspection company for quality and quantity control in the market of Solid Fuels, Metals-Minerals, Scrap and Marine Surveys with offices all over the globe.

## REAL TIME INSTRUMENTS

Lot J Mackay Marina Village  
Mackay  
QLD  
4740  
Australia  
**Contact:** Mr Nathan Kennedy  
**Job Title:** Marketing Specialist  
T: + 617 4955 5944

E: sales@rtiaustralia.com  
W: https://realtimetruments.com/  
RTI manufacture specialist equipment that provide real-time reporting of key quality measures of bulk materials as they are transported on a conveyor belt and by other means. RTI distributes high performance belt weighers and tramp metal detection and removal systems.

## REEL MÖLLER GmbH

Haderslebener Straße 7  
Pinneberg  
25421  
Germany  
**Contact:** Mrs Martina Kauder  
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T: + 49 4101 788 312  
E: martina.kauder@reel-moeller.com  
W: www.reel-moeller.com  
REEL, with its MÖLLER® technology, is a world leader in the field of engineering and the manufacture of complete pneumatic systems, with several thousand references around the world. Our complete range of advanced systems, machines and components for conveying and storing fine-grained, mineral bulk materials.

## REEL S.A.S.

69 rue de la Chaix  
Saint-Cyr au-Mont d'Or  
69450  
France  
**Job Title:** Corporate Communication  
T: + 33 4 72 29 76 00  
E: communication@reel.fr  
W: www.reelinternational.com  
With 75 years of unique know-how in the design, manufacture and maintenance of complex handling and lifting systems, REEL is an industrial group with a presence in various markets: nuclear, aerospace, aluminum, marine and offshore.

## REEL S.A.S.

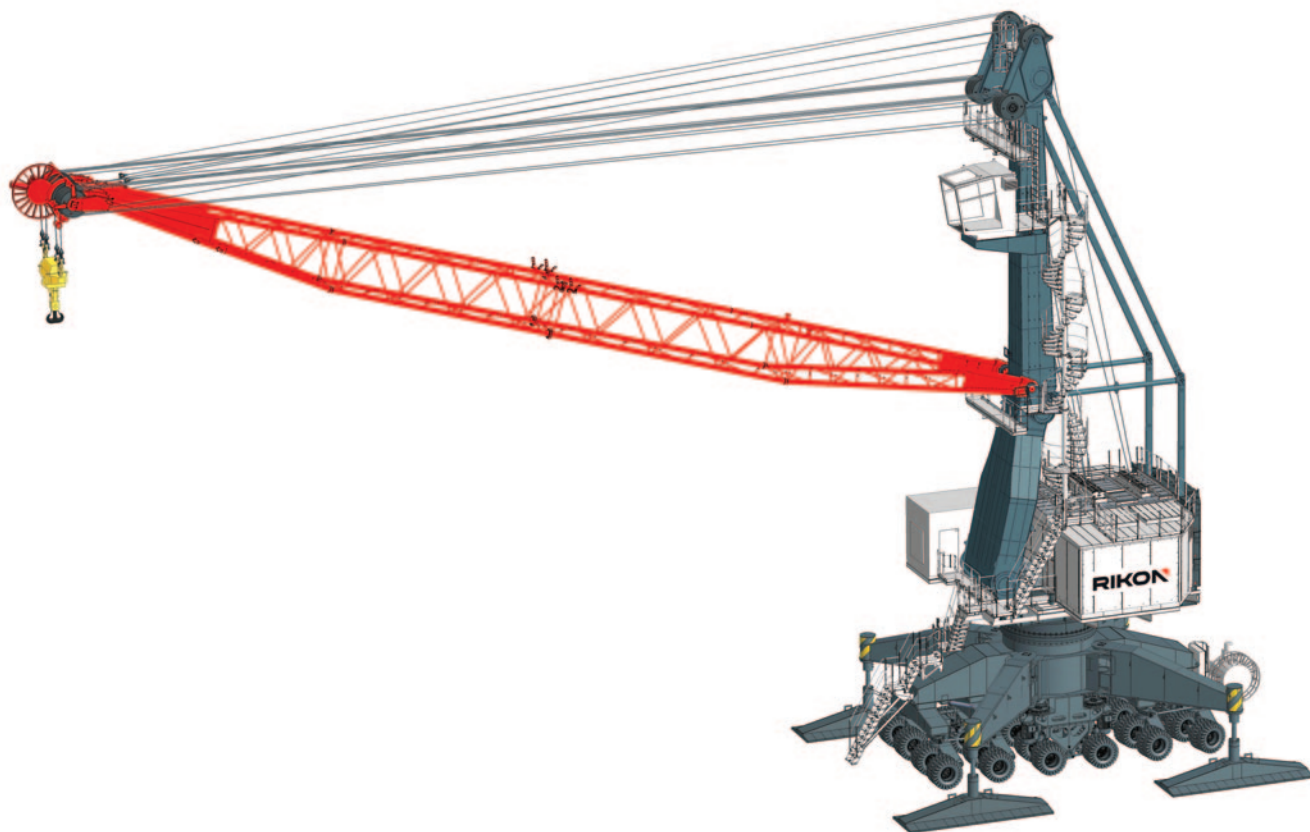
69 rue de la Chaix  
Saint-Cyr au-Mont d'Or  
69450  
France  
**Job Title:** Corporate Communication  
T: + 33 4 72 29 76 00  
E: communication@reel.fr  
W: www.reelinternational.com

## REMA TIP TOP AG

Gruberstraße 65  
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Bavaria  
D-85586  
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**Contact:** Ms Claudia Pietsch  
**Job Title:** Marketing Manager







T: + 49 8121 707 10133  
E: Claudia.Pietsch@tiptop.de  
W: www.rema-tiptop.com  
*REMA TIP TOP is a global solution provider for tire repairs & maintenance, conveyor and processing facilities. With our decades of expertise, a worldwide network of service technicians, state-of-the-art digital technology, and suitable materials, we keep your assets safely in motion.*

**RENK**  
**AKTIENGESELLSCHAFT**  
**WERK AUGSBURG**  
Gögginger Straße 73  
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**REPA CONVEYOR**  
**EQUIPMENT B.V.**  
Fluorietweg 28  
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Noord Holland  
1812 RR  
The Netherlands  
**Contact:** Mr Richard van der Laan  
**Job Title:** Managing Director  
T: + 31 251 70 02 52  
E: sales@repa-ce.com  
W: www.repa-ce.com/  
*REPA - your single source supplier.*

**RHC DEUTSCHLAND**  
**GmbH**  
Am Taennle 6  
Senden-Aufheim  
Bayern  
D-89250  
Germany  
**Contact:** Mr Rolf Hofmann  
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T: + 49 174 2050 164

E: rolf.hofmann@rhc-deutschland.de  
W: www.rhc-deutschland.com/  
F: + 49 7307 9258065  
*RHC can provide a competitive package of different kinds of Material Handling Systems.*

**RICHMOND**  
**ENGINEERING WORKS**  
1601 Parkway View Drive  
Pittsburgh  
PA  
15205  
USA  
T: + 1 412 787 9640  
E: info@richmondengineering.com  
W: www.richmondengineering.com  
F: + 1 412 787 9645  
*Richmond Engineering provides design, supply and installation oversight of material handling systems, including rotary railcar dumpers, positioners, stacker/reclaimers, grab and continuous barge unloaders, and shiploaders. We provide structural/mechanical inspections and upgrades along with 24/7 field service and replacement parts.*

**RICHWOOD INDUSTRIES,**  
**INC.**  
PO Box 1298  
Huntington  
West Virginia  
25714-1298  
USA  
**Contact:** Ms Lorrie Spence  
**Job Title:** Chief Marketing Officer  
T: + 1 304 525 5436  
E: info@richwood.com  
W: www.richwood.com  
F: + 1 304 525 8018  
*For over 30 years, Richwood has designed and manufactured reliable, innovative solutions for the worldwide bulk material handling industry.*

**RIEGL LASER**  
**MEASUREMENT**  
**SYSTEMS GMBH**

Riedenburgerstraße 48  
Horn  
A-3580  
Austria  
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T: + 43 2982 4211  
E: chuber@riegl.com  
W: www.riegl.com  
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**RIKON A/S**  
**RIKON**  
Tvaika Street 68b  
Riga  
LV-1034  
Latvia  
**Contact:** Mr Inal Akhba  
**Job Title:** Council Chairman  
T: + 371 29 29 9992  
E: rikon@rikon.lv  
W: www.rikon.lv  
F: + 371 67393828  
*AS RIKON is one of the leading manufacturers of port handling equipment with more than 60 years experience. The company manufactures high quality portal and mobile harbour cranes and grabs for multiple purposes, loads and material types, for example: Level luffing cranes; Rubber tired gantry cranes; Rail mounted gantry cranes; mobile harbour cranes; Crane-manipulators; Ship cranes; Offshore cranes; Overhead cranes.*

**RINA CONSULTING**  
**S.P.A.**  
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E: cinzia.pica@rina.org  
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*Our scope of business is to provide an integrated, comprehensive and tailor-made advisory service for marine terminals and associated handling infrastructures, both off-shore and on-shore. The company's individuals and*

*associates have pioneered dry-bulk shipping logistics off-shore, devising and designing innovative floating terminals, self unloading vessels and floating cranes, as well as on-shore terminals.*

**RINGSPANN GMBH**  
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61348  
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W: www.ringspann.com  
F: + 49 172 73 54 755

**ROCKTREE LOGISTICS**  
**ROCKtree**  
2187 Atlantic Street  
Clearwater House  
Stamford  
06902  
Connecticut  
USA  
**Contact:** Mr Daniel Miller  
**Job Title:** General Manager  
E: dmiller@rocktree.com;  
projdev@rocktree.com  
W: www.rocktree.com  
*Rocktree is a leading provider of marine dry bulk cargo handling and delivery solutions, serving international traders, miners and end users in Asia, Africa and South America, with a strong focus on providing innovative solutions.*

**RONIN SYSTEM**  
**SOLUTIONS**  
No 1 Nobel Avenue  
Modderfontein  
Johannesburg  
Gauteng  
1645  
South Africa  
**Contact:** Mr Ferdinand Meyer  
**Job Title:** Sales and Marketing Executive, Ronin Group  
T: + 27 11 608 3666

E: ferdi@thisironin.com  
W: www.thisironin.com  
F: + 27 11 608 4679  
*Ronin GMS provide bulk inventory management systems and moment in time audits for balancing real-time stock positions to stock positions on book. Our systems can be used in Silo's, warehouses and open air stock yards. Enrolling business partners worldwide.*

**ROSSI S.P.A.**  
Via Emilia Ovest 915/A  
Modena  
41123  
Italy  
**Contact:** Ms Fulvia Rinaldini  
**Job Title:** Marketing Dept.  
T: + 39 059 330288  
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W: www.rossi.com/  
F: + 39 059 827774  
*ROSSI designs manufacture and distribute a comprehensive range of gear reducers, gearmotors, and electric motors, for all industry segments, worldwide. In the global marketplace, our customers and partners value our products and services for two reasons: excellence and reliability.*

**ROTOBEC**  
200 Rue Industrielle  
Sainte-Justine  
QC  
G0R 1Y0  
Canada  
**Contact:** Mr Francois Lafreniere  
**Job Title:** Sales Director - International Markets  
T: + 1 418 383 3002  
E: francois.lafreniere@rotopec.net  
W: https://rotopec.com/

**ROXON Oy**  
Kesikankaantie 19  
Hollola  
15860  
Finland  
**Contact:** Mr Ryan Silvester  
**Job Title:** Marketing Manager  
Nepean  
T: + 61 8 9347 8507  
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W: www.roxon.com  
*ROXON offers maximum productivity through total material handling solutions. ROXON is an expert in belt conveyors, link conveyors, apron feeders, belt feeders, stackers, reclaimers, loading hoppers, shiploaders, conveyor components, service and modernization. Please visit www.roxon.com for more information.*

**RUBB BUILDINGS LTD**  
Dukesway  
Team Valley Trading Estate  
Gateshead  
Tyne & Wear  
NE11 0QE  
UK  
**Contact:** Mr Ross Purcell  
**Job Title:** Marketing Manager  
T: + 44 191 482 2211  
E: info@rubbuk.com  
W: www.rubbuk.com/  
F: + 44 191 482 2516  
*Designs, manufactures and installs relocatable flat storage buildings. Structures are made from a frame consisting of hot dip galvanised steel and PVC impregnated polyester outer membrane. Structures can be supplied worldwide complete turnkey solutions to any bulk storage problem can be offered.*

**RUD CHAINS**  
12 Commerce Place  
Larapinta  
Brisbane  
QLD  
4110  
Australia  
**Contact:** Mr John Burroughs  
**Job Title:** Mechanical Engineer  
T: + 61 419721115  
E: john.burroughs@rud.com.au  
W: www.rud.com.au



**RULMECA HOLDING S.P.A.****RULMECA**

Via A Toscanini 1  
Almè  
Bergamo  
24011  
Italy

**Contact:** Mr Enrico Aledi  
**Job Title:** Marketing & Corporate Communications Manager  
**T:** + 39 035 430 0111  
**E:** marketing@rulmecca.com  
**W:** www.rulmecca.com

*Specialises in the production of idlers/rollers, frames, motorized pulleys, fabricated pulleys and components for material handling.*

*Rulmecca Group means: wide distribution networks; close relationships with customers and complete service; manufacturing flexibility; continuously expanding and evolving product range; constant improvement in technical, design and sales service; global market reach and a network of skilled agents.*

**SABS MINING & MINERALS**

1 Dr Lategan Road  
Groenkloof  
Pretoria  
Gauteng  
0001  
South Africa

**Contact:** Mr Richard Sadiki  
**Job Title:** Sales Lead (Mining and Minerals)  
**T:** + 27 861 27 7227  
**E:** richard.sadiki@sabs.co.za  
**W:** www.sabs.co.za  
*SABS has a global history of excellence in sampling and analysis of coal and minerals*

*and is a key third-party service provider to the domestic and international mining industry including being a local content service provider throughout Southern Africa.*

**SAMMI S.R.L. (AN INTEGRA HOLDING S.R.L. COMPANY)**

Via Tuderte, 388  
Narni Scalo  
Terni  
05035  
Italy

**Contact:** Mr Gian Luca Tedesco  
**Job Title:** Marketing Manager  
**T:** + 39 0744 733832  
**E:** marketing@sammi.it  
**W:** www.sammi.it

**F:** + 39 335 5313331  
*In addition: Bucket elevator Offering complete support, from engineering to implementation, through to commissioning, of turkey industrial installations. With 60 years of experience in multiple industrial applications, we specialize in the development of tailor-made solutions (both for the development of new plants or revamping existing ones).*

**SAMPLING ASSOCIATES INTERNATIONAL**

22 Enterprise Parkway  
Suite 220  
Hampton  
Virginia  
23666  
USA

**Contact:** Mr Ken Joyner  
**Job Title:** President  
**T:** + 1 757 928 0484 ext 100  
**E:** preagan@samplingassociates.com  
**W:** www.samplingassociates.com  
**F:** + 1 757 928 0482  
*SAI is a specialist in the operation and maintenance of mechanical sampling systems*

*for coal, coke and petroleum coke in the Americas.*

**SAMSON MATERIALS HANDLING LTD (AUMUND GROUP) SAMSON**

Gemini House  
Cambridgeshire Business Park  
1 Bartholomew's Walk  
Ely, Cambridgeshire  
CB7 4EA  
UK

**Contact:** Mr Matthew Jones  
**Job Title:** Managing Director  
**T:** + 44 1353 665001  
**E:** sales@samson-mh.com  
**W:** www.samson-mh.com  
*Experts in mobile bulk materials handling equipment for surface installation: from truck unloaders, to ship loaders, rail and barge loaders, ecological import hoppers and mobile stockpiling equipment. Hard-working equipment designed for rapid set-up and continuous high performance. Services also include field assembly, site supervision, commissioning, after sales service, PREMAS®, refurbishment and upgrading of existing equipment.*

**SANDVIK MINING AND ROCK SOLUTIONS**

Petruschgasse 12  
Wien  
AT-1210  
Austria

**Contact:** Mr Eric Gourley  
**Job Title:** Corporate Communications Manager  
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**SANY EUROPE GMBH**

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**F:** + 49 173 6558991  
*SANY Europe is a company of SANY Heavy Industry, from Changsha. This is one of the three largest manufacturers of construction machinery worldwide. The company, founded in 1989, offers a wide range of products, with more than 26 product families and over 300 machine models. These are developed, produced and sold by just under 40,000 employees around the world. SANY's European site has been in Bedburg, near Cologne, since 2011.*

**SAS GLOBAL CORP**

21601 Mullin Ave  
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MI  
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**Contact:** Mr Gary Stiltner  
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**W:** www.sasglobalcorp.com/

**SBEC (PTY) LTD**

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Industria St 4  
Vredenburg  
7380  
South Africa

**Contact:** Mr Dirk van der Merwe  
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**SCANTECH INTERNATIONAL**

PO Box 1485

Springwood  
Queensland  
4127  
Australia

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**Job Title:** General Manager - Marketing  
**T:** + 61 418 848 851  
**E:** a.brodie@scantech.com.au  
**W:** www.scantech.com.au  
*World leader in process control solutions for conveyed bulk materials. On-belt analysers with proven technologies. Reliable, accurate and dependable ash, moisture, PSD, volume and elemental measurement minute by minute. Control quality through blending or monitor specification compliance. Over 1,400 installations.*

**SCHADE LAGERTECHNIK GMBH (AUMUND GROUP)****SCHADE**

Bruchstraße 1  
Gelsenkirchen  
D-45883  
Germany

**Contact:** Dr Jan Weckes  
**Job Title:** Managing Director  
**T:** + 49 209 50 31 60  
**E:** sales@schade-lagertechnik.com  
**W:** www.schade-lagertechnik.com  
*Engineering, manufacture and supply of Stockyards and Blending Beds of circular and longitudinal shape with Stackers and Tripper cars.*

*Bridge-type Scraper Reclaimers, Portal and Semi-portal Scraper Reclaimers, Cantilever Scraper Reclaimers as well as Wagon Unloading Systems and Rail-Mounted Shiploaders. Services also include field assembly, site supervision, commissioning, after sales service, PREMAS®, refurbishment and upgrading of existing equipment.*

**SCHRAGE ROHRKETTESYSTEM GMBH CONVEYING SYSTEMS**

Im Gewerbepark 26-30  
Friedeburg  
26446  
Germany

**Contact:** Ms Ayleen von Bronk  
**Job Title:** Marketing  
**T:** + 49 4465 9469 18  
**E:** a.vonbronk@schrage.de  
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**F:** + 49 4465 9469 33

**SCHULTE STRATHAUS GMBH & Co. KG**

Runtestrasse 42  
Werl  
D-59457  
Germany

**Contact:** Mr Florian Lammert  
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**T:** + 49 2922 9775 0  
**E:** flammert@schulte-strathaus.de  
**W:** www.schulte-strathaus.de  
**F:** + 49 2922 9775 75  
*Accessories for Conveyors: STARCLEAN® Conveyor Belt Scrapers, Belt Trackers, Spillex transfer point seals, impact tables and bars, STARCLEAN® Smart Scraper with belt damage detection.*

**COALSCAN 9500X****ON-BELT ELEMENTAL ANALYSER FOR ASH, MOISTURE AND SULPHUR MEASUREMENT AND CV IN COAL**

On-line Real Time Analysis for the Coal Industry

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**SCANTECH**

PROCESS CONTROL SPECIALISTS

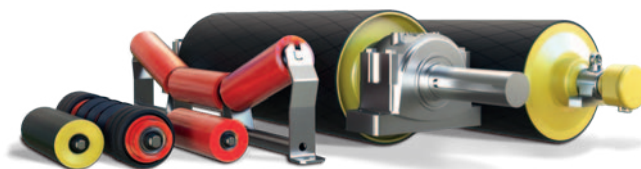
**COALSCAN 9500X Advantages**

- Ultra-compact design. Installs between standard idlers;
- High Performance Multi-Detector Configuration;
- Conveyed flows for belts up to 2800mm wide and 1200mm deep;
- Source auto storage for safety;
- No contact with material or conveyor belt, no wear parts;
- No sampling necessary during normal operation;
- Optional customised SUPERSCAN console;
- Interface to most process control systems;
- No access restrictions around analyser;
- 2 Years Warranty;
- Remote and local technical support.





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Rulmeca offers a wide range of quality Rollers/Idlers, Motorized Pulleys, Pulleys and components used in the most demanding applications in belt conveyors material handling. We are close to you, whenever you need us, with a global network of sales and service centers.

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## SCORPIO ENGINEERING BMH Pvt. Ltd

Scorpio House  
132 Wheeler Road  
Cox Town  
Bangalore  
560 005  
India  
**Contact:** Mr Balan Velan  
**Job Title:** Managing Director  
**T:** + 91 8217643165  
**E:** marketing@scorpiobmh.com  
**W:** www.scorpiobmh.com  
www.drybulklogistics.in  
www.optimumbulkhandling.com  
*In addition: fly ash conveying, liner container filling & discharging equipment.*  
*The company is a 35-year-old engineering and manufacturing organisation in the areas listed and the capacities of the equipment are custom specified and built. The average range is from 100 tph to 1000 tph.*

## SCRAPETEC INTERNATIONAL GmbH

Altfelder Straße 190  
Kamp-Lintfort  
D-47475  
Germany  
**Contact:** Mr Thorsten Koth  
**Job Title:** Managing Partner  
**T:** + 49 2842 9 32 92 93  
**E:** thkoth@scrapetec-trading.com  
**W:** https://scrapetec-trading.com/  
*Our unique products, based on over three decades of know-how in materials handling technology, such as the AirScrape, DustScrape and SpeedScrape are economic and easy to assemble but allow a significant prevention of dust formation and spill plus more careful and efficient belt cleaning at critical sections along the conveyor route and transfer points.*

## SEABULK INC

10331 Mortfield Road  
Richmond  
British Columbia  
V7A 2W1  
Canada  
**Contact:** Mr Sidney Sridhar  
**Job Title:** President  
**T:** + 1 604 273 1378 Ext 103  
**E:** sbs@seabulk.com  
**W:** www.seabulk.com  
*Involved in 'design and build' projects in the marine bulk transportation industry. Ports, self unloaders and transhipper developed by Seabulk have improved bulk transportation logistics significantly.*

## SEMPERTRANS CONVEYOR BELT SOLUTIONS GmbH

Am Belvedere 10  
Vienna  
1100  
Austria  
**Contact:** Mr Anas Esmat  
**Job Title:** Marketing Manager  
**E:** office@sempertgroup.com  
**W:** www.sempertgroup.com/  
*SEMPERTRANS has been developing, manufacturing and installing conveyor belts for more than 50 years. Its knowhow, its experience and the quality of its products make SEMPERTRANS one of the world's leading companies in its field.*

## SENNEBOGEN MASCHINENFABRIK GmbH

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D-94315  
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**Contact:** Mr Robert Aumüller  
**Job Title:** Head of Business Unit  
Port Application  
**T:** + 49 9421 540155

**E:** marketing@sennebogen.de  
**W:** www.sennebogen.com  
**F:** + 49 9421 43882  
*Sennebogen offers a wide range of all kinds of materials handling machines, HD rope excavators/cranes, crawler cranes, telescopic cranes and base carriers.*

## SENSOR TECHNOLOGY Ltd

Apollo Park  
Ironstone Lane  
Wroton  
Banbury  
Oxon  
OX15 6AY  
UK  
**Contact:** Mr Mark Ingham  
**Job Title:** Sales Manager  
**T:** + 44 1869 238 400  
**E:** info@sensors.co.uk  
**W:** www.sensors.co.uk  
**F:** + 44 1869 238 401  
*Manufacturers of TORQSENSE and LOADSENSE Sensors and Transducers. The TorqSense and LoadSense range of sensors offer accurate, affordable, market leading products across the whole range of industrial applications.*

## SERAM SA

Polygone Nord  
817 boulevard Marius Berliet  
Perpignan  
66000  
France  
**Contact:** Mr Joaquin Semis  
**Job Title:** CEO  
**T:** + 33 4 68 61 02 28  
**E:** semis.j@seram.net  
**W:** www.seram.net  
**F:** + 33 4 68 61 57 00  
*Company has specialized in cargo handling since 1973. Its premium product is the hydraulic equilibrium crane, for which we had the exclusive patent.*

## SESCOTRANS For DEVELOPED LOGISTICS (SAE)

1, Elshahied Sayed Zakarya St.  
(Behind Sheraton Airport)  
Cairo  
11361  
Egypt  
**Contact:** Mr Kareem Abd El Latif  
**Job Title:** Assistant General Manager  
**T:** + 2 057 229 00 95  
**E:** kareem.abdelatif@sescotrans.net  
**W:** www.sescotrans.com  
**F:** + 2 057 229 08 49  
*SESCOTRANS has 50 years of experience in integrated logistics solutions for your business - serving main Egyptian main ports including transportation, customs clearance, warehousing, loading and discharging of different cargo and vessel sizes supported with full setup of facilities and fully-employed resources*

## SEW-EURODRIVE GmbH & Co KG

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D-76646  
Germany  
**Job Title:** Central Sales  
**T:** + 49 7251 75 0  
**E:** sew@sew-eurodrive.de  
**W:** www.sew-eurodrive.com  
**F:** + 49 7251 75 1970  
*Complete drive packages: Helical gear units, Bevel-helical gear units, motors, couplings, swing bases, brakes, geared motors. Planetary gear units, frequency inverters Torque range: 100 ... 1 Mio Nm.*

## SGS (NEDERLAND) BV

Malledijk 18  
Spijkenisse  
AE  
3200

The Netherlands  
**Contact:** Mr Richard van de Wetering  
**Job Title:** Global Energy Minerals  
Trade Inspection Manager  
**T:** + 31 181 69 3260  
**E:** Richard.vandeWetering@sgs.com  
**W:** www.sgs.nl  
*SGS is the world's leading testing, inspection and certification company. We are recognized as the global benchmark for quality and integrity. Our 93,000 employees operate a network of 2,600 offices and laboratories, working together to enable a better, safer and more interconnected world.*

## SGS CANADA INC

185 Concession Street  
PO Box 4300  
Lakefield  
ON  
K0L 2H0  
Canada  
**Contact:** Mr Stephen Mackie  
**Job Title:** Director Business Development  
**T:** + 1 705 652 2058  
**E:** steve.mackie@sgs.com  
**W:** www.sgs.com/coal  
**F:** + 1 705 652 6365  
*Knowing your coal quality and representatively sampling are essential to eliminate penalties and maximize profits. SGS' technical expertise provides unrivalled experience and value throughout the coal value chain to eliminate operation risk.*

## SGS MINERALS SERVICES

1 Place Des Alpes  
PO Box 2152  
Geneva  
CH 1211  
Switzerland  
**Contact:** Mr Richard Lihou  
**Job Title:** General Manager  
**T:** + 41 22 739 9111  
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**W:** www.sgs.com  
**F:** + 41 22 739 9886  
*The SGS Group is the global leader and innovator in verification, inspection, testing and certification services. Founded in 1878, SGS is recognised as the global benchmark for the highest standards of expertise and integrity. With over 30,000 employees, the Company operates a network of offices and laboratories in over 140 counties around the world.*

## SHANDONG KAIYUAN HEAVY MACHINERY Co., Ltd.

Yangliu Industrial Park  
Xintai City  
Tai'an City  
Shandong  
271208  
China  
**Contact:** Mr Klaus  
**Job Title:** Sales Manager  
**T:** + 86 538 6276276  
**E:** klaus@kyzjx.com  
**W:** www.http://en.kyrcranes.com/

## SHANGHAI GLOBAL MACHINERY Co Ltd

RM 1001. BLDG 2  
Meichuan Road 1295  
Putuo District  
Shanghai  
201711  
China  
**Contact:** Mr Luo Tao  
**T:** + 86 21 398 21129  
**E:** luo@sgmc.com.cn  
**W:** www.sgmcgrab.com  
**F:** + 86 21 398 21130

## SHANGHAI GUANBO MACHINERY EQUIPMENT Co.,Ltd

3736-5 Hunan Road  
Pudong

Shanghai  
China  
**Contact:** Ms Alica Fang  
**Job Title:** Marketing  
**T:** + 86 21 5088 0140  
**E:** sales@gbm-china.com  
**W:** www.gbm-grab.com

## SHANGHAI JANUS GRAB Co., LTD.

Room 518-519  
VMO 37#  
2049 Pujin Road  
Shanghai  
Shanghai 201114  
China  
**Contact:** Mr Fred Hu  
**Job Title:** Deputy General Manager  
**T:** + 86 21 6885 5558  
**E:** janus@janusgrab.com  
**W:** www.janusgrab.com/  
**F:** + 86 21 6885 5559  
*A leading and innovative grab specialist in China and Asia market, design and manufacture various kinds of grabs for more than 20 years. We are the best link between ship and shore!*

## SHANGHAI YO-PI PORT MACHINERY Co. LTD

Room 603, No 3 Lane 298  
East Wenshui Road  
Shanghai  
PR  
China  
**Contact:** Miss Avril  
**T:** + 86 21 552 28716  
**E:** grab@shyp-pm.com  
**W:** www.shyp-pm.com/  
**F:** + 86 21 5522 8739

## SHANTHI INTERNATIONAL

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Indira Gandhi Road  
Jamnagar  
Gujarat  
361008  
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**Contact:** Mr Sanjay Masuria  
**Job Title:** Director - Marketing - International  
**T:** + 91 288 255 6671 / + 91 288 2555 867  
**E:** info@servoday.com  
**W:** www.servodaygrabs.com  
**F:** + 91 288 255 4254  
*Our manufacturing range of Four Rope Mechanical Grabs, Orange Peel Grabs, Radio Remote Control Grabs includes the capacity from 6.0CBM to 52.0CBM and is suitable to handle many types of bulk materials. Please visit our website www.servodaygrabs.com for further information about our company and products.*

## SHI.E.L.D. SERVICES SRL



Via Rovereto, 10  
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20127  
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**T:** + 39 02 8362 3450  
**E:** lcondini@shieldservices.it  
**W:** www.shieldservices.it/  
*We provide a complete range of services for the logistics and transshipment of dry bulk materials and for the shipping and industry markets, including ship management and operation of ships and transshippers, feasibility studies, definition and development of the most suitable logistic solution, vessel design, supervision of new-building construction and vessel conversion.*

## SIA GRAVITI

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**Contact:** Mr Dinis Hruscovs  
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**T:** + 371 29506140  
**E:** dh@graviti.lv  
**W:** https://graviti.lv/  
*Company's bestsellers are all types of grabs. Other cargo handling equipment: roll trailers, turnover spreaders, Gravit containers. BLESTE is managing own engineering bureau and can customise.*

## SIBRE - SIEGERLAND BREMSSEN GmbH



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Haiger  
Hessen  
D-35708  
Germany  
**Contact:** Ms Ilenna Maeting  
**Job Title:** Secretary - Managing Director  
**T:** + 49 2774 91134 11  
**E:** ilenna.maeting@sibre.de  
**W:** www.sibre.de  
*SIBRE-Siegerland Bremsen manufactures industrial brakes (drum-, disc-, caliper- and storm brakes) and drive components (e.g. drum couplings) and offer an optimum combination of innovative high quality products, easy usage and minimized life-cycle costs, by employing latest manufacturing and quality assurance technologies.*

## SIEBTECHNIK GmbH

Platanenallee 46  
Mülheim an der Ruhr  
D-45478  
Germany  
**Contact:** Mr G Liefke  
**T:** + 49 208 580 100  
**E:** sales@siebtechnik.com  
**W:** www.siebtechnik.com  
**F:** + 49 208 580 1300  
*Wormscreen, pusher-type and vibratory centrifuges, centrifuges for granular products; decanters for continuous separation of solids from liquids; laboratory centrifugal, size-reduction machines, especially vibratory mills for grinding to ultimate fineness, machines and plants for taking and preparing samples. Horizontal, elliptical and circular motion screening machines, jigs.*

## SIEBTECHNIK TEMA

7806 Redsky Drive  
Cincinnati  
Ohio  
45249  
USA  
**Contact:** Mr Mike Mullins  
**T:** + 1 513 489 7811  
**E:** sales@tema.net  
**W:** www.siebtechnik-tema.com  
**F:** + 1 513 489 4817  
*Other equipment: Centrifuges/dryers. Manufacture and supply cross-belt sampling systems (up to 3M wide primary cutter) in accordance with ISO standards, screening machines and centrifuges for the coal and other mineral industries. Please visit our web page for additional information.*

## SIEBTECHNIK TEMA BV

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GE  
2280  
The Netherlands  
**Contact:** Mr M P van Delden  
**T:** + 31 70 390 6555  
**E:** m.vandelden@siebtechnik-tema.nl

**W:** www.siebtechnik-tema.nl  
**F:** + 31 70 399 3390  
**SIEBTECHNIK TEMA Centrifuges**  
*Coal centrifuges for coarse and fine coal. Sample taking, sample preparation, complete sampling plants and laboratory equipment; Linear- and circular-motion screening machines.*

## SIEMENS AG

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## SIEMENS AG

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**Job Title:** Strategy & Marketing  
**T:** + 49 1733 697 767  
**E:** jazmin.parra\_ancares@siemens.com  
**W:** www.siemens.com  
*Advanced Automation, Digitalisation Solutions and Electrification for the Minerals Industry, such as MES, Stockyard Management, CMS and more.*

## SIEMENS NEDERLAND NV

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The Netherlands  
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**E:** hans.hertogh@siemens.com  
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**F:** + 31 70 33 33 534

## SIETHOM GROUP

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**W:** www.siethomgroup.com/

## SIG - SOCIETÀ ITALIANA GOMMA SPA

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Italy  
**Contact:** Mr Luca De Stefano  
**Job Title:** Sales Director  
**T:** + 39 0331 365135  
**E:** sig@sig.it  
**W:** www.sig.it  
*SIG is one of the European most important producers of elevator as well as rubber conveyor belts. With an experience of more than 80 years manufacturing SIG can easily supply high quality made in Italy fabric and steel cord rubber belts worldwide.*

## SIMPLICITY PROJECTS Pvt Ltd

G1/1275, RIICO Industrial Area  
Rampur  
Mundana  
Bhiwadi  
Rajasthan  
301019  
India  
**Contact:** Mr Anoop Shanker  
Madan  
**Job Title:** Director  
**T:** + 91 8130308006  
**E:** sppi@simplicityprojects.com  
**W:** www.simplicityprojects.com  
*Providing customised solutions from concept to commissioning of material conveying systems for the last 40 years.*



## SLY LLC

8300 Dow Circle  
Suite 600  
Strongsville  
OH  
44136  
USA

**Contact:** Mr Mick Ruggiero  
**Job Title:** Director, Sales and Engineering Operations  
**T:** + 1 440 239 5643  
**E:** sales@slyinc.com  
**W:** www.slyinc.com  
**F:** + 1 440 891 3210

*Designs and manufactures industrial air pollution control equipment, including baghouse dust collectors, cartridge collectors, wet scrubbers (plate, venturi and eductor) and retractable loading spouts. The company manufacturing facility fabricates in carbon steel, stainless and duplex steels. Production also includes cages.*

## SMAG PEINER GRABS (INDIA) PVT. LTD.

Office no. 504 The Affaires Premises  
Plot no. 9, Sector 17, Near Moraj Circle  
Palm Beach  
Sanpada  
Navi Mumbai  
400705  
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**Contact:** Mr Vaibhav Pisal  
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**E:** smagmumbai@shipcare.in  
**W:** www.peiner-smag.in/

## SMB INTERNATIONAL GmbH

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**Job Title:** CEO  
**T:** + 49 4106 12388 0  
**E:** heckel@mba-instruments.de  
**W:** www.smb-group.de/  
*SMB meets the demanding material-related requirements of conveying bulk and bagged goods. The company designs and manufactures high-performance conveying solutions designed for trouble-free long-term operation. Projects all over the world convince fertilizer producers, port operators and industrial specialists of the quality of German engineering.*

## SMILEY MONROE LTD

23 Ferguson Drive  
Knockmore Hill Industrial Park  
Lisburn, Co. Antrim  
Northern Ireland  
BT28 2EX  
UK

**Contact:** Mr Tim Monroe  
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**T:** + 44 28 9267 3777  
**E:** sales@smileymonroe.com  
**W:** www.smileymonroe.com  
**F:** + 44 28 9266 3666  
*Exporting worldwide - experts in the design, manufacture and service of conveyor belts, screening media and conveyor spillage control & dust encapsulation systems for bulk materials handling. Industries served range from quarrying, mining and cement plants to ports, steelworks and power stations.*

## SOBEMAI CRANE SERVICES BV

39e Linielaan 2  
Maldegem  
Oost-Vlaanderen  
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Belgium  
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**T:** + 32 50 711801  
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**W:** www.sobemai.com

**F:** + 32 50 710402  
*Manufacturer of equilibrated cranes, selling to the international market.*

## SOLITEC ENGINEERING LTD

Unit 8  
Gilchrist Thomas Industrial Estate  
Blaenavon  
Gwent  
NP4 9RL  
UK  
**Contact:** Mr David Woodland  
**Job Title:** General Manager  
**T:** + 44 1495 790623  
**E:** sales@solitec.co.uk  
**W:** www.solitec.co.uk  
**F:** + 44 1495 790666  
*Design and manufacture bulk materials handling equipment to food, pharmaceutical, cement, petrochemical and other industries. Product range, typically, consists of screw conveyors, bucket elevators, mixers (various), IBC systems and silo discharge aids. Part of the ROTOLOK Group of companies.*

## SOTECMA

245, boul. Yvon - L'Heureux Nord  
Beloil  
Quebec  
J3G 5R8  
Canada  
**Contact:** Mr Florin Corcoz  
**Job Title:** President  
**T:** + 1 450 464 4426  
**E:** fcorcoz@sotecma.com  
**W:** www.sotecma.com  
**F:** + 1 450 464 4534  
*Canadian company offering turnkey engineering and construction services in bulk handling and flat storage solutions at low cost. The type of structure used is a highly versatile alternative to conventional constructions. The storage shed can be dismantled and be relocated. For more details visit www.sotecma.com.*

## SPOHN + BURKHARDT SICHERHEITSTECHNIK GmbH

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40595  
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**Contact:** Ms Vanessa Henze  
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**E:** info@sitec-components.com  
**W:** www.sitec-components.com/  
*We are a German manufacturer of safety switches for conveyor belts. Our switches are designed for especially rough and demanding environment with many options to customize.*

## SPRAYSTREAM

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Kortrijk  
8500  
Belgium  
**Contact:** Mr Mirko Savic  
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**E:** mirko@spraystream.com  
**W:** www.spraystream.com/

## STAG AG

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7304  
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**Contact:** Mr Martin Adam  
**Job Title:** Sales/Marketing  
**T:** + 41 81 3035841 / 5800  
**E:** office@stag.net  
**W:** www.stag.net  
**F:** + 41 81 3035899  
*STAG bulk material technology for mechanical and pneumatic conveying technology as well as ensilage technology. We are also the ideal partner as a general company for complex assignments for nearly all bulk materials in plant construction.*

## STANDARD INDUSTRIE

139 - 141 Rue du Luxembourg  
CS 50207  
Roubaix Cedex 1  
59054  
France  
**Contact:** Ms Linda Granato  
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**T:** + 33 320 283 232  
**E:** market@standard-industrie.com  
**W:** www.standard-industrie.com  
**F:** + 33 320 685 109  
*STANDARD INDUSTRIE International is a specialist in the design and manufacture of equipment to facilitate the handling of powdery bulk products safely. With our methods, you can optimise the performance of production tools while reducing the operation and maintenance costs.*

## STANTEC

375 Boulevard Roland-Therrien  
Longueuil  
Quebec  
J4H 4A6  
Canada  
**Contact:** Mr Bernard Burke  
**Job Title:** Principal, Ports and Marine Terminal  
**T:** + 1 438 686 9125  
**E:** bernard.burke@stantec.com  
**W:** www.stantec.com/en  
**F:** + 1 450 668 8232  
*Customized solutions for complex projects. Our team meets even the most difficult technical challenges in a creative yet practical manner. We take pride in providing innovative solutions that balance production goals with good stewardship, environmental sustainability, and regulatory requirements. Most importantly, we consistently maintain our focus on safety and quality while delivering projects on-time and on-budget.*

## STEMM EQUIPOS INDUSTRIALES, S.L.

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Pabellón B-9  
Hernani  
Gipuzkoa  
20120  
Spain  
**Contact:** Mr Martin Amesti  
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**T:** + 34 943 335 033  
**E:** info@stemm.com  
**W:** www.stemm.com  
**F:** + 34 943 333 506  
*With extensive experience in the bulk handling sector, STEMM manufactures a wide range of grabs for harbour and industrial cranes, especially electrohydraulic clamshell and orange peel grabs and single-rope radio-controlled clamshell grabs with state-of-the-art construction and service concepts. STEMM is your partner for consulting, manufacturing and servicing around the grab world. For further information, kindly check our website www.stemm.com.*

## STM INDUSTRIALE APA

Zona Industriale snc  
Tito Scalco  
Potenza  
85050  
Italy  
**Contact:** Mr Anselmo Zirpoli  
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**W:** www.stm.group  
**F:** + 39 0971 485086  
*STM is specialized in the engineering and supply of BELT CONVEYOR SYSTEMS for bulk materials handling facilities. Since 1975 we provide worldwide innovative integrated solutions in order to increase efficiency, reliability and cost savings for the customers' production*

*processes. STM Portfolio includes Belt Conveyor, Pipe Conveyors, Mobile Conveyors, Vertical Conveyors, Stackers, Trippers, Shiploaders.*

## STM SpA

Via del Maccabreccia, 39  
Lippo di Calderara di Reno (BO)  
40012  
Italy  
**Contact:** Mr Manuel Landa  
**Job Title:** Planetary Drives Manager  
**T:** + 39 051 3765711  
**E:** marketing@stmspa.com  
**W:** www.stmspa.com  
*Power transmission manufacturer (gearboxes & electric motors).*

## STOKMAN BV

Brasem 18  
Raamsdonksveer  
AB  
4941 SE  
The Netherlands  
**Contact:** Mr Mark Hoekstra  
**Job Title:** Account Manager  
**T:** + 31 162 516040  
**E:** mhoekstra@stokmanbv  
**W:** www.stokmanbv.com  
**F:** + 31 162 517590

## STRUDES INC

1980 Sherbrooke W. Suite 720  
Montreal  
Quebec  
H3H 1E5  
Canada  
**Contact:** Mr Henry Nowodworski  
**Job Title:** President  
**T:** + 1 514 731 6951 x 123  
**E:** h.nowodworski@strudes.ca  
**W:** www.strudes.ca  
**F:** + 1 514 737 4146  
*Strudes Inc. is an engineering consulting company, founded in Montreal in 1984. We specialize in design for heavy industry. We provide full range of engineering services including preliminary and final design, contract evaluation and administration, environmental studies, schedule development, etc.*

## STUDIO TECNICO MALNATI SAS

Via Giovanni Treccani degli Alfieri 22  
Milano  
Lombardia  
20141  
Italy  
**Contact:** Dr Andrea Malnati  
**Job Title:** Product Manager  
**T:** + 39 02 895 017 30  
**E:** andrea.malnati@stmalnati.com  
**W:** www.stmalnati.com  
*Our company represents several industrial manufacturers. We develop basic engineering for solid material handling systems. Our team is focused on selecting machineries and designing plants for:*  

- crushing - screening
- handling systems
- rollers and rubber belt
- e-motors and inverters
- process automation

*Other Equipment: Telescopic Cascade Chutes*

## SUCOFINDO

Laboratory Strategic Business Unit  
Graha Sucofindo 6th Floor  
Jalan Raya Pasar Minggu Kav.34  
Jakarta  
12780  
Indonesia  
**Contact:** Mr Diding Sudira  
**Job Title:** Senior Manager  
**T:** + 62 21 798 3666  
**E:** diding@sucofindo.co.id  
**W:** www.sucofindo.co.id  
**F:** + 62 21 798 6878

## SUMITOMO HEAVY INDUSTRIES MATERIAL HANDLING SYSTEMS Co., Ltd.

Osaki Garden Tower  
1-1-1, Nishi-shinagawa  
Shinagawa-ku  
Tokyo  
141-0033  
Japan  
**Contact:** Mr Yasushi Maeda  
**Job Title:** General Manager, International Sales  
**T:** + 81 3 6629 0175  
**E:** shimh.international\_sales@shi-g.com  
**W:** www.shi.co.jp/shi-mh/  
**F:** + 81 3 6628 5671  
*Sumitomo has produced a very wide range of material handling equipment for over 90 years and perseveres in its efforts to improve the efficiency of their leading continuous ship unloading range of machines.*

## SUPERIOR INDUSTRIES

NW Business Complex  
Skeoge Ind Estate  
Derry  
Londonderry  
BT48 8SE  
Northern Ireland  
**Contact:** Mr Michael Dunne  
**Job Title:** International Business Development EMEA  
**T:** + 44 28 71879589  
**E:** michael.dunne@superior-ind.com  
**W:** www.superior-ind.com

## SUPERIOR INDUSTRIES, INC.



315 East State Highway 28  
PO Box 684  
Morris  
Minnesota  
56267  
USA  
**Contact:** Mr Corey Poppe  
**Job Title:** Communications Manager  
**T:** + 1 320 589 2406  
**E:** info@superior-ind.com  
**W:** www.superior-ind.com  
**F:** + 1 320 585 5644  
*Superior Industries is the only North American based company to manufacture a complete line of conveying equipment like telescoping radial stackers, mobile shiploaders, truck unloaders and fixed conveyor systems; plus conveyor related components like idlers, pulleys, scrapers and other accessories.*

## SUPREME MANUFACTURING, Inc.

327 Billy Boyd Road  
Stoneboro  
PA  
16153  
USA  
**Contact:** Mr Elliot Archibald  
**Job Title:** Vice President Sales and Marketing  
**T:** + 1 724 376 4110  
**E:** earchibald@suprememfg.net  
**W:** https://suprememfg.net/

## SYNERGY ENGINEERING LTD

135 Glacier Street  
Coquitlam  
BC  
V3K 5Z1  
Canada  
**Contact:** Ms Nicole Neuman  
**Job Title:** President & CEO  
**T:** + 1 604 464 3663  
**E:** nicole.neuman@synergy-eng.com  
**W:** www.synergy-eng.com  
*Synergy Engineering is internationally renowned for our electrical engineering & automation Design & Supply for materials handling industry. For*

*mining, we deliver turnkey IPCC systems for expansion and debottlenecking projects unique expertise in SRC drive technology.*

## TADANO INFRASTRUCTURE SOLUTIONS LTD.

8-1 St Luke Tower  
Akashi Cho  
Chuo-Ku  
Tokyo  
104-0044  
Japan  
**Contact:** Ms Kyoko Tomita  
**Job Title:** Overseas Sales Department  
**T:** + 81 3 5550 5375  
**E:** kyoko.tomita.b8t@tadano.com  
**W:** www.tadano-infra.com  
**F:** + 81 3 5550 5366  
*In addition: Multi-purpose gantry cranes IUK has supplied a lot of coal handling equipment and systems with cutting edge technology for world-wide customers and has had a world leading delivery record of the continuous ship unloaders.*

## TAMTRON GROUP

PO Box 15 (Vestonkatu 11)  
Tampere  
FI-33561  
Finland  
**Contact:** Mr Mikko Kähkönen  
**Job Title:** Vice President of Sales & Marketing  
**T:** + 358 40 195 2527  
**E:** mikko.kahkonen@tamtron.com  
**W:** https://tamtrongroup.com/

## TANK CONNECTION

3609 North 16th Street  
Parsons  
Kansas  
KS 67357  
USA  
**Contact:** Mr Gino Gebelin  
**Job Title:** Marketing Supervisor  
**T:** + 1 620 423 3010 ext. 109  
**E:** sales@tankconnection.com  
**W:** www.tankconnection.com/  
**F:** + 1 620 423 3999

## TAPC - TOTAL AIR POLLUTION CONTROL

Suite 2.01  
Level 2  
315 Ferntree Gully Rd  
Mount Waverley  
Melbourne  
VIC  
3149  
Australia  
**Contact:** Mr Paul Gaskett  
**Job Title:** Sales & Marketing Manager  
**T:** + 61 3 9541 8699  
**E:** paul.gaskett@environmental.com.au  
**W:** https://environmental.com.au/

## TBA GROUP

4 Railway Court  
Ten Pound Walk  
Doncaster  
South Yorkshire  
DN4 5FB  
UK  
**Contact:** Mr James Watson  
**Job Title:** Marketing Specialist  
**T:** + 44 1302 330 837  
**E:** james.watson@tba.group  
**W:** www.tba.group  
*Plan, track and manage all cargo types, manned/automated assets and people right across your terminal or terminal network. TBA Group are a global software & consultancy business offering integrated solutions to simplify the operations of ports, terminals and warehouses.*

## TBK GROUP BV

Groot Overveen 7  
Renswoude  
Utrecht  
NL-3927 GH  
The Netherlands  
**Contact:** Mr Micha Bermentloo



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**W:** [www.drycargomag.com](http://www.drycargomag.com)



**Job Title:** Manager Sales Support & Product Marketing  
**T:** + 31 318 745 740  
**E:** mbermentloo@tbkgroup.com  
**W:** www.tbkgroup.com  
*The TBK Group delivers practical, innovative, and sustainable solutions which minimize waste, pollution and dust emissions around your conveyor belt.*

## TD MICRONIC

201-14770 64 Avenue  
 Surrey  
 British Columbia  
 V3S 1X7  
 Canada  
**Contact:** Mr Alastair Boyd  
**Job Title:** General Manager  
**T:** + 1 604 594 9191  
**E:** admin@tdmicronic.com  
**W:** www.tdmicronic.com  
**F:** + 1 604 594 9193  
*TD Micronic is a long time industry leader in Belt Weighing World. We have 0.1% accuracy with Measurement Canada, NTEP. We recently joined with Control Systems Technology in Australia to further provide accurate bulk weighing world wide.*

## TECHNAERO APS

Blaabærvæg 3  
 Haslev  
 DK-4690  
 Denmark  
**Contact:** Mr Anders Larsen  
**Job Title:** CEO  
**T:** + 45 56314925  
**E:** sales@techNaero.dk  
**W:** www.techNaero.dk  
**F:** + 45 56314555  
*Other equipment: Silo systems*

## TECPRO AUSTRALIA

Unit 5  
 16 Rob Place  
 Vineyard  
 NSW  
 2765  
 Australia  
**Contact:** Mr Patrick Cooper  
**Job Title:** Director  
**T:** + 61 2 9634 3370  
**E:** patrick@tecpro.com.au  
**W:** www.tecpro.com.au/  
*Since 1982, Tecpro Australia has specialized in providing reliable technical solutions to the mining industry, in Australia and overseas. Our range varies from spray nozzles, ergonomic guns and stainless steel hose reels to evaporative cooling, dust and odour suppression systems.*

## TEHNOROS

6/A, Bolshoi Smolenskiy ave.  
 Saint-Petersburg  
 192029  
 Russia  
**Contact:** Mr Oleg Kasinov  
**Job Title:** Chief Marketing Officer  
**T:** + 7 (911) 975 48 91  
**E:** info@tehnoros.ru  
**W:** www.tehnoros.ru  
*TEHNOROS, established in 1991, designs and manufactures complicated materials handling equipment. Over the years company carried out hundreds unique and complicated projects for the backbone enterprises of metallurgical, mining, chemical and nuclear power industries, ports and terminals, shipbuilding industry.*

## TELE RADIO

International Brand Marketing  
 Jadedstraat 9  
 Bleiswijk  
 2665 NS  
 The Netherlands  
**Contact:** Mr Ron van Gent  
**Job Title:** Marketing Manager  
**T:** See our global website  
**E:** info@tele-radio.com  
**W:** www.tele-radio.com  
*Tele Radio are experts on safe wireless and radio remote control. Our main business areas are within industry, industrial-, lift, mobile-, doors, gates and barriers applications. We also offer remote controls*

for hydraulic machinery.

## TELE RADIO I LYSEKIL AB

August Barks gata 30A  
 Västra Frölunda  
 Gothenburg  
 SE-421 32  
 Sweden  
**Contact:** Ms Shietel Bhaggan  
**Job Title:** Marketing  
**T:** + 31 70 419 41 27  
**E:** marketing@tele-radio.com  
**W:** www.tele-radio.com/  
*Tele Radio are experts on safe wireless and radio remote control. Our main business areas are within industry, industrial-, lift, mobile-, doors, gates and barriers applications. We also offer remote controls for hydraulic machinery.*

## TELESTACK LIMITED



Bankmore Way East  
 Omagh  
 County Tyrone  
 BT79 0NZ  
 Northern Ireland  
**T:** + 44 28 82 25 11 00  
**E:** marketing@telestack.com  
**W:** www.telestack.com  
**F:** + 44 28 82 25 22 11  
*Specialist manufacturers of mobile bulk material handling systems for the Ports/Inland terminals, Mines, Quarries, Steel Mills, Cement Plants and Powerstation industries globally. The mobile range of equipment offers unrivalled flexibility for the operator, reducing costs in Cap-Ex Investment compared to fixed installations, fuel and labour. Equipment includes; mobile shiploaders/unloaders, mobile stackers, mobile truck unloaders, mobile reclaim hoppers, mobile rail wagon loaders/unloaders and mobile link conveyors. We have supplied and support some of the world largest blue chip companies.*

## TENOVA S.P.A.

Via Gerenzano, 58  
 Castellanza (VA)  
 21053  
 Italy  
**Contact:** Ms Marina Carrea  
**Job Title:** Marketing Manager  
**T:** + 39 0331444526  
**E:** tenova@tenova.com  
**W:** www.tenovagroup.com  
*Provides a full range of high capacity bulk materials handling equipment for coal and other minerals and ores. Its range of CSUs and shiploaders are amongst the largest capacity machines operating worldwide.*

## TEREX

200 Coalisland Road  
 Dungannon  
 Co.Tyrone  
 BT714DR  
 Northern Ireland  
**Contact:** Ms Michelle Murphy  
**Job Title:** Group Marketing Manager  
**T:** + 44 7961710331  
**E:** michelle.murphy@terex.com  
**W:** www.terex.com

## TEREX DEUTSCHLAND GMBH



Industriest. 3  
 Bad Schönbörn  
 76669  
 Germany  
**Contact:** Mr Jens Körting  
**Job Title:** Sales & Marketing Director  
**E:** jens.koerting@terex.com  
**W:** www.terex.com/fuchs  
*Fuchs a Terex brand offers: Loading machines from 19 to*

150to operating weight and up to 28m reach.  
 Complete solutions designed for your specific purpose.

## TEUFELBERGER SEIL GES.M.B.H

Vogelweiderstr. 50  
 Wels  
 4600  
 Austria  
**Contact:** Ms Tabitha Leibetseder  
**Job Title:** Market Communication  
**T:** + 43 7242 413 123  
**E:** tabitha.leibetseder@teufelberger.com  
**W:** www.teufelberger.com  
**F:** + 43 7242 413 91123  
*TEUFELBERGER is a globally successful enterprise specialized in manufacturing high performance wire ropes for various crane applications such as bulk handling for more than 225 years. TEUFELBERGER operates six manufacturing sites worldwide and possess a close-knit network of distribution partners worldwide.*

## THE GRAB SPECIALIST B.V.

Draaibrugweg 1  
 Almere  
 1332AA  
 The Netherlands  
**Contact:** Mr Emiel Bleyenbergh  
**Job Title:** Director  
**T:** + 31 365 32 88 22  
**E:** info@tgs-grabs.nl  
**W:** www.tgs-grabs.nl  
**F:** + 31 365 49 99 22  
*We supply all types of bulk handling grabs like clamshells in single line/remote control/electro-hydraulic/2-line and 4-line . Grabs can be supplied in standard design or to clients specification. We stand for good advice, quality, short delivery times and good service.*

## THE HILLIARD CORPORATION

100 West Fourth Street  
 Elmira  
 NY  
 14901  
 USA  
**Contact:** Ms Colleen Donahoe  
**Job Title:** Senior Marketing & Communications Manager  
**T:** + 1 607 733 0928  
**E:** cdonahoe@hilliardcorp.com  
**W:** www.hilliardcorp.com/  
**F:** + 1 607 733 7121

## THE RARING CORPORATION

1101 NE 144th St.  
 Ste #107  
 Vancouver  
 WA  
 98682-1475  
 USA  
**Contact:** Mr Gonzalo Campos  
**Job Title:** President  
**T:** + 1 360 892 1659  
**E:** gcampos@raringcorp.com  
**W:** www.raringcorp.com  
**F:** + 1 360 892 1624  
*We design and manufacture ADSTM Dust Suppression Systems. Our systems are able to work under the most demanding weather conditions. ADSTM DSS helps to take care of the environment, reduce the losses of processed material, maintain safely working environments and free of accumulation of material and most importantly to reduce the risks of workers getting silicosis.*

## THIELE GmbH & Co KG

Werkstrasse 3  
 Iserlohn  
 Nordrhein-Westfalen  
 D- 58640  
 Germany

**Contact:** Mr Maik Koerner  
**Job Title:** Sales Manager - Conveyor Chains  
**T:** + 49 2371 947 319  
**E:** bulkmaterial@thiele.de  
**W:** www.thiele.de  
**F:** + 49 2371 947 241  
*More than 80 years experience in the engineering and manufacturing of conveyor chain systems such as round steel chains, bushed conveyor chains, forged conveyor chains and cardan chains, including all attachments.*

## THOR GLOBAL ENTERPRISES LTD.

839 Westport Crescent  
 Mississauga  
 ON  
 L5T 1E7  
 Canada  
**Contact:** Mr Aby Schneider  
**Job Title:** Managing Director  
**Sales**  
**T:** + 1 905 564 0440 EXT:238  
**E:** abys@thorglobal.ca  
**W:** www.thorglobal.ca  
**F:** + 1 905 564 9602  
*Thor Global Enterprises Ltd. is a leading manufacturer of bulk material handling equipment for applications ranging from mining, recycling and aggregate to agriculture, coal, mineral and port terminals. Founded in 1969, Thor Global has grown significantly over the years in order to provide innovative solutions with unparalleled service and technology worldwide.*

## THORWESTEN VENT

Daimlerweg 39  
 Beckum  
 59269  
 Germany  
**Contact:** Mr Berthold Bussieweke  
**Job Title:** Head of Sales  
**T:** + 49 2521 93 91 0  
**E:** thorwesten.vent@thorwesten.com  
**W:** www.thorwesten.com  
**F:** + 49 2521 93 91 33

## TIDFORE HEAVY INDUSTRY MANUFACTURING Co., LTD

No. 6 Benben Road  
 Jinhua Economic and Technological Development Zone  
 Xiangtan City  
 Hunan Province  
 China  
**Contact:** Mr Daniel Fu  
**Job Title:** Marketing Manager  
**T:** + 86 731 52837213  
**E:** sales@tidfore.com  
**W:** www.tidfore.com

## TINAMU LABS AG

Stafelstrasse 10  
 Zürich  
 8045  
 Switzerland  
**Contact:** Mr Thomas Götschmann  
**Job Title:** CEO  
**T:** + 41 79 740 88 80  
**E:** thomas@tinamu.com  
**W:** https://tinamu-labs.com/  
*TINAMU is a spin-off from the Swiss Federal Institute of Technology Zürich (ETH Zürich). We provide a turnkey solution for drone-based inspection automation, consisting of a dashboard that visualizes relevant information, analytics software running on a secured cloud, and the drone system connected to a communication network. Real-time insights are directly delivered to the asset owners, allowing supply chain and inventory managers to get trust, visibility and control over their inventory, in the cloud, at the push of a button.*

## TMEIC

2060 Cook Dr.  
 Salem  
 Virginia  
 24153  
 USA  
**Contact:** Ms Tricia Downie  
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**T:** + 1 540 283 2000  
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**F:** + 1 540 283 2001

## TMSA TECNOLOGIA EM MOVIMENTAÇÃO S/A

Avenida Bernardino Silveira  
 Pastoriza, 710  
 Bairro Santa Rosa de Lima  
 Porto Alegre  
 RS  
 91160-310  
 Brazil  
**Contact:** Mr Rodrigo Pereira  
**Job Title:** Marketing  
**T:** + 55 51 2131 3238  
**E:** rodrigo.pereira@tmsa.ind.br  
**W:** www.tmsa.ind.br  
*Headquartered in Brazil with offices in Latin America, TMSA, is one of the largest suppliers for bulk material handling equipment to Port Terminals, Grain or Oilseed Processing Industries. Portfolio includes high capacity grain cleaners, enclosed belt conveyors, shiploaders among others.*

## TOBU JUKOGYO Co, LTD.

4-12-20, Kitazakae  
 Yamaguchi  
 Chiba  
 279-0002  
 Japan  
**Contact:** Mr Shinichi Suwa  
**Job Title:** Sales Department  
**T:** + 81 47 352 5318  
**E:** info@tobugrab.com  
**W:** www.tobugrab.com/en/  
**F:** + 81 47 352 5316  
*We have played a role in maritime logistics with a cumulative 10,000 units of grab buckets that connect ships and land. We will continue to add new value to dry bulk transportation.*

## TOPCON TECHNOLOGY LTD

Cirencester Road  
 Minchinhampton  
 Stroud  
 Gloucestershire  
 GL6 9BH  
 UK  
**Contact:** Mr N Wood  
**Job Title:** Business Development Manager  
**T:** + 44 1453 733300  
**E:** nwood@topcon.com  
**W:** www.rdstec.com  
**F:** + 44 1453 733322  
*RDS Technology (Topcon Positioning Group) was formed in 1969 and specialises in the design and manufacture of on-board weighing scales for loaders (LOADMASTER a 100, LOADMASTER a50), excavators (LOADEX 100) and rigid dump trucks (WEIGHLOG a 10).*

## TPI ENGINEERED SYSTEMS

4045 Orchard Road SE  
 Suite 520  
 Smyrna  
 Georgia  
 30080  
 USA  
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**Job Title:** CEO  
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**E:** rberry@tpies.com  
**W:** www.tpies.com/index.html

## TRANS-GLOBAL SOLUTIONS, Inc

11811 East Freeway  
 Suite 630

Houston  
 Texas  
 TX 77029  
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**Contact:** Mr Dan Orsini  
**T:** + 1 713 453 0341  
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**W:** www.tsgsgroup.com  
**F:** + 1 713 453 2756

## TRANS-GLOBAL SOLUTIONS, Inc.

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 Nederland  
 TX  
 77627  
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**T:** + 1 409 727 4801  
**E:** wscott@tsgsgroup.com  
**W:** www.tsgsgroup.com  
**F:** + 1 409 729 1132

## TRANSHIP LTD

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 Odessa  
 65014  
 Ukraine  
**Contact:** Mr Eugene Mashtakov  
**T:** + 380 482 33 33 32  
**E:** e.mashtakov@transship.ua  
**W:** http://transship.ua  
**F:** + 38 482 34 74 07

## TRF LIMITED (TATA)

11 Station Road  
 Burma Mines  
 Jamshedpur  
 Jharkhand  
 831 007  
 India  
**Contact:** Mr Kaushik Dutta  
**Job Title:** Head, Corporate Services & Communication  
**T:** + 91 657 2345309  
**E:** info@trf.co.in  
**W:** www.trf.co.in /  
**www.tata.com/company/profile/TRF**  
*Other equipment: Plough feeders, Trippers, Side discharge loaders, Barrel reclaimers, Port crane, Special duty crane, Steep inclined conveyor. A TATA Group company providing service to all sectors in bulk material handling & processing system on EPC basis or EP basis.*

## TRIODETIC

10 Didak Drive  
 Amriorp  
 Ontario  
 K7S 0C3  
 Canada  
**Contact:** Mr Luis Gattorno  
**Job Title:** V.P. Global Dome Operations  
**T:** + 1 613 623 3434 ext. 2272  
**E:** lgattorno@triodetic.com  
**W:** www.triodetic.com  
**F:** + 1 613 622 4003  
*Geodesic Domes and longitudinal covers for dust control and to protect against material loss New or existing stockpiles where dust issues are a problem. Triodetic Domes can be installed over operation Stockpile without downtime.*

## TRU-TRAC ROLLERS (Pty) LTD

590 Barolong St  
 Icon Industrial Park  
 Sunderland Ridge  
 Centurion  
 Gauteng  
 0154  
 South Africa  
**Contact:** Mr Shaun Blumberg  
**Job Title:** COO and Director  
**T:** + 27 12 661 9531  
**E:** shaun@tru-trac.com  
**W:** www.tru-trac.com/

## TSP KOREA

301 Yeonghwa B/D 149  
 Seongdeokjung-gil  
 Engineering dept.  
 Seoul  
 04777  
 South Korea



**Contact:** Mr Baiksoo Han  
**Job Title:** President  
**T:** + 82 1037142274  
**E:** bshan@han-corp.com  
**F:** + 82 24618084

## TSUBAKI CONVEYOR SYSTEMS INDIA PVT. LTD

Gat No. 316-319  
 Ambadvet  
 Pune-Paud Road  
 Near Pirangut  
 Pune  
 Maharashtra  
 412 108  
 India  
**Contact:** Mr Ravindra Vaidya  
**T:** + 91 20 67928400  
**E:** VAIDYA.RAVINDRA@tsubaki-conveyor.in  
**W:** https://tsubaki-conveyor.in/  
**F:** + 91 20 67928401

## TSUBAKI KABELSCHLEPP GmbH

Daimlerstr. 2  
 Wenden-Gerlingen  
 D-57482  
 Germany  
**Contact:** Mrs Lena Sondermann  
**Job Title:** Assistant to VP Sales & Marketing  
**T:** + 49 2762 4003 0  
**E:** info@kabelschlepp.de  
**W:** www.kabelschlepp.de  
*Founded in 1954, KABELSCHLEPP is known today as one of the world leaders where cable carriers, guideway protection and conveyor systems are concerned. Products are today being used by numerous well-known machine builders in Germany and abroad.*

## TSUBAKIMOTO BULK SYSTEMS CORP.

Ryokuchieki Building 7F,  
 2-4-1, Terauchi,  
 Toyonaka  
 Osaka  
 561-0872  
 Japan  
**Contact:** Mr Shigetoh Nakajima  
**Job Title:** Overseas Business Dept.  
**T:** + 81 6 6862 2329  
**E:** tbs-sales@gr.tsubakimoto.co.jp  
**W:** https://tsubakimoto.com/tbs/  
**F:** + 81 6 6862 8516  
*Produces bulk handling systems equipment, bucket, flow and pan conveyors.*

## ULMA CONVEYOR COMPONENTS

Barrio Zelaieta s/n  
 Otxandio  
 Bizkaia  
 48210  
 Spain  
**Contact:** Mr Egoitz Jiménez Ocio  
**Job Title:** Managing Director  
**T:** + 34 945 450 075  
**E:** ejimenez@ulmaconveyor.com  
**W:** www.ulmaconveyor.com/en/  
**F:** + 34 945 450 257

## VEENSTRA MACHINEFABRIEK B.V.

De Holwert 10  
 KC Coevorden  
 7741KC  
 The Netherlands  
**Contact:** Mr Paul Kuiper  
**Job Title:** Investor  
**T:** + 31 524 599 333  
**E:** mach@veenstra-coevorden.nl  
**W:** www.veenstragroup.nl  
**F:** + 31 524 599 330

## VERSTEGEN GRIJPERS BV



Marconibaan 20  
 Nieuwegein  
 3439 MS  
 The Netherlands  
**Contact:** Mr Eric Visser  
**Job Title:** Managing Director  
**T:** + 31 3060 62222  
**E:** info@verstegen.net  
**W:** www.verstegen.net  
**F:** + 31 3060 60657  
*A leading manufacturer, specialising in developing, designing and constructing all kinds and types of grab units. Its product range includes single/two/four rope grabs and hydraulic grabs.*

## Vibco Inc

75 Stilson Road  
 Wyoming  
 RI  
 02898  
 USA  
**Contact:** Mr Karl Wadensten  
**Job Title:** President  
**T:** + 1 401 539 2392  
**E:** vibrators@vibco.com  
**W:** www.vibco.com  
**F:** + 1 401 539 2584  
*VIBCO industrial and concrete vibrators are saving real people time and money! We manufacture all our vibration equipment in the USA. Our factory, our engineers, and our customer service agents are ready to help you. Contact VIBCO Vibrators today 1-800-633-0032.*

## VIBRAFLOOR

Za 27 Rue de la Tuilerie  
 Dracy-le-Fort  
 71640  
 France  
**Contact:** Mr Jean-Claude Poncet  
**Job Title:** President  
**T:** + 33 3 85 44 06 78  
**E:** vibrafloor@vibrafloor.com  
**W:** www.vibrafloor.com  
**F:** + 33 3 85 44 06 79  
*Vibrafloor supplies the automatic reclaimer VIBRAFLOOR. Independent vibrating modules laid on slight inclines, typically 8 to 12°, remove efficiently most bulk products, free flowing or cohesive, out of ship holds, silos, storage platforms, railway cars etc.... No personnel, maintenance free, totally safe, negligible operating cost are major advantages.*

## VIRTA INC.

5909 Sea Lion Place  
 Suite B  
 Carlsbad  
 California  
 92010  
 USA  
**Contact:** Ms Vanessa Hamilton  
**Job Title:** Marketing Analyst  
**T:** + 56 990 742958  
**E:** vanessa.hamilton@virtainc.com  
**W:** www.virtainc.com/  
*An original equipment manufacturer (OEM) specialized in design/supply of bulk material handling systems to mining, mineral processing, ports and terminals, power, and chemical projects worldwide; founded on principles of safety, quality, technical depth, lean operations, fast delivery, custom solutions, and responsiveness.*

## VIVO CONSULT S.R.O.

Kaprova 42/14  
 Praha 1  
 110 00  
 Czech Republic  
**Contact:** Mr Vítá Vortruba  
**Job Title:** CEO

**T:** + 420 602 443 914  
**E:** demands@vivoconsult.com  
**W:** www.vivoconsult.com

## VOLLERT ANLAGENBAU GmbH

Stadtseestr. 12  
 Weinsberg  
 74189  
 Germany  
**Contact:** Mr Jurgen Schiemer  
**Job Title:** Vice President  
**T:** + 49 7134 52 232  
**E:** juergen.schiemer@vollert.de  
**W:** www.vollert.de  
**F:** + 49 7134 52 222  
*Other equipment: Shunting Systems. Vollert shunting systems are the ideal solution for rail-bound in-plant loading and shunting operations handling all kinds of materials (bulk cargo, liquids etc) - ranging from stationary shunting systems to free-moving shunting robots with diesel or electric drive.*

## VORTEX GLOBAL LIMITED

13 Halegrove Court  
 Stockton on Tees  
 TS18 3DB  
 UK  
**Contact:** Mr Laurence Millington  
**Job Title:** Managing Director  
**T:** + 44 132 572 8577  
**E:** global@vortexglobal.com  
**W:** www.vortexglobal.com  
*Vortex manufactures quality slide gates, diverters, iris valves, loading spouts, and aerated equipment for handling dry bulk solids. Our products can be specifically designed for individual applications in the agriculture, bakery, cement, chemical, coal, food, milling, mineral, pharmaceutical, plastics, and rubber industries.*

## VSR INDUSTRIE TECHNIK GmbH

Am Alten Schacht 6  
 Duisburg  
 D-47198  
 Germany  
**Contact:** Mr Julius Körling  
**Job Title:** CEO  
**T:** + 49 20 66 99 66 30  
**E:** info@vsr-industrietechnik.de  
**W:** www.vsr-industrietechnik.de  
**F:** + 49 20 66 99 66 62  
*VSR is a privately owned German engineering company, manufacturing machinery and equipment. Our national and international clients are mainly in the heavy and bulk goods industry (eg energy, chemical, coal, cement, feed and recycling industries). For more than 45 years the name VSR Industrietechnik GmbH has stood for experience, expertise, quality and sustainability. Our six established product groups are: VSR BLASTER® air cannons; VSR DUSTEX® dust suppression system / fog blower; VIBREX® Conveyor-belt scrapers; LINEX® conveyor-belt centralizing idler; CAREX® sealing system for transfer chutes; VSR VIBMATIC® VSR stress reduction procedure.*

## WJAX

3280 Wharton Way  
 Mississauga  
 Ontario  
 L4X 2C5  
 Canada  
**Contact:** Mr Joel Paikin  
**Job Title:** Product Manager  
**T:** + 1 647 268 6195  
**E:** jpaikin@wjax.com

## WAMGROUP S.p.A.

Via Cavour 338  
 Ponte Motta/Cavezzo (MO)  
 41032  
 Italy  
**Contact:** Mr Matteo Reggiani  
**Job Title:** Corporate Marketing Communications Manager

**T:** + 39 0535 618 111  
**E:** matteo.reggiani@wamgroup.com  
**W:** https://wamgroup.com/

## WEATHERSOLVE STRUCTURES

#102, 6350 204 St  
 Langley  
 British Columbia  
 V2Y 2V1  
 Canada  
**Contact:** Mrs Barbara Robinson  
**Job Title:** Marketing Manager  
**T:** + 1 604 607 7781  
**E:** Barbara@Weathersolve.com  
**W:** www.weathersolve.com  
**F:** + 1 604 909 1914  
*WeatherSolve Structures has over 40 years of experience. Over 1000 acres of fencing and found on every continent, including Antarctica. We understand that dust can be an issue we are happy to help you come up with the best solution. Designs are customized to your needs. The fences are put in place and with very minimal upkeep they use no daily consumables, to have an easy solution for you. Call us today!*

## WEBA CHUTES

99 Nagington Road Wadeville  
 Germiston  
 1422  
 South Africa  
**Contact:** Ms Karina Trollip  
**Job Title:** Marketing Manager  
**T:** + 27 11 827 9372  
**E:** karina@webachutes.com  
**W:** https://webachutes.com/  
*Weba Chutes specializes in innovative bulk materials handling solutions, providing customized chutes and flow control systems to optimize operations in mining and industrial sectors. Committed to quality and efficiency, Weba Chutes enhances productivity and reduces operational costs for clients worldwide.*

## WEG

Av. Pref. Waldemar Grubba 3300  
 Vila Lalau - 89256-900  
 Jaraguá do Sul - SC  
 Brazil  
**Contact:** Mr Rodrigo Pascon  
**Job Title:** Head of International Marketing  
**T:** + 55 47 3276-4000  
**E:** rpasson@weg.net  
**W:** www.weg.net

## WEIGHTRON BILANCIAL LTD

Titan Works  
 Bridge Way  
 Chesterfield Trading Estate  
 Chesterfield S41 9QJ  
 UK  
**Contact:** Mr Nick Burley  
**Job Title:** UK Sales & Marketing Director  
**T:** + 44 1246 260062  
**E:** sales@weightroncb.co.uk  
**W:** www.weightron.com

## WEIR-MOTION METRICS

8162 Ontario St  
 Vancouver  
 British Columbia  
 V5X 3E3  
 Canada  
**Contact:** Mr Camilo Sanchez  
**Job Title:** Marketing  
**T:** + 1 604 822.5842 x36  
**E:** info@motionmetrics.com  
**W:** www.motionmetrics.com  
**F:** + 1 604 677 5191

## WESTMAR ADVISORS

Suite 700 - 1901 Rosser Avenue  
 Burnaby  
 BC  
 V5C 6R6  
 Canada  
**Contact:** Mr Stanley Cowdell  
**Job Title:** President  
**T:** + 1 604 770 4787  
**E:** info@westmaradvisors.com  
**W:** https://westmaradvisors.com/

## WIRTECH AG

Zelgstrasse 86  
 Uetendorf  
 CH-3661  
 Switzerland  
**Contact:** Mr K Buehler  
**Job Title:** Marketing  
**T:** + 41 33 346 5050  
**E:** info@wirtech.ch  
**W:** www.wirtech.ch  
**F:** + 41 33 346 5059

## WOLF MATERIAL HANDLING SYSTEMS

231 Main St NW, Suite 6  
 Elk River  
 MN  
 55330  
 USA  
**Contact:** Mr Howard Brockhouse  
**Job Title:** Sales & Marketing Manager  
**T:** + 1 763 576 9040  
**E:** sales@wolffmhs.com  
**W:** www.wolffmhs.com/  
**F:** + 1 763 576 9070  
*Wolf Material Handling Systems is a premier provider of engineering, design and manufacturing of bulk material handling systems. Wolf has supplied some of the largest material handling systems in North America.*

## WOLF POINT ENGINEERS & CONTRACTORS

One North LaSalle Street  
 Suite 4000  
 Chicago  
 IL  
 60602  
 USA  
**Contact:** Mr Robert Williams  
**Job Title:** Vice President of Sales and Marketing  
**T:** + 1 312 508 5550  
**E:** bwilliams@wpengr.com  
**W:** www.wolfpointengineers.com/  
*Wolf Point Engineers & Contractors (a Division of North Alabama Fabricating Company, Inc.) is a leading EPC Firm specializing in the implementation of Bulk Material Handling Systems for numerous industries including but not limited to the Power Mining, Pulp and Paper Industries.*

## WÖLFER BY WICHMANN E GmbH

Industriestraße 14  
 Osnabrück  
 49082  
 Germany  
**Contact:** Mr Oliver Hinnah  
**T:** + 49 5404 91779 921  
**E:** Oliver.Hinnah@wichmann-os.de  
**W:** www.woelfer-motoren.com

## WOOD

15 Justice Mill Lane  
 Aberdeen  
 Scotland  
 AB11 6EQ  
 UK  
**Contact:** Mr Ken Gilmartin  
**Job Title:** CEO  
**E:** ken.gilmartin@woodplc.com  
**W:** www.woodplc.com

## WORLD DOMES

4355 N Haroldsden Drive  
 Idaho Falls  
 Idaho  
 83401  
 USA  
**Contact:** Mr Ted Parkinson  
**T:** + 1 208 522 5520  
**E:** ted@domes.com  
**W:** www.domes.com  
*World class, high quality concrete dome builder for storage of a multitude of dry bulk materials, including coal. DOMTEC has broad experience with reclaim systems. Projects are delivered around the world on time and within budget.*

## WUVIO INTERNATIONAL

Honderdland 150  
 Maasdijk  
 Zuid-Holland  
 2676 LT  
 The Netherlands  
**Contact:** Mr Michel Gadron  
**Job Title:** CEO  
**T:** + 31 1745 200 01  
**E:** michel.gadron@wuvio.com  
**W:** www.wuvio.com  
*Wuvio supplies innovative and proprietary products to combat dust during handling and storage of dry bulk. Our aim is to suppress dust in an effective and sustainable way. Our solutions are tailor-made for your specific situation.*

## VERNAUX-PASAGE

Zone Industrielle Beraaugard PB 552  
 Brive Cedex  
 19107  
 France  
**Contact:** Mr Willy Banc  
**Job Title:** Marketing Department  
**T:** + 33 475 66 4600  
**E:** willy.banc@preciamolien.fr  
**F:** + 33 555 860 563

## ZAO SMM (CJSC SMM)

Grivtsov Lane, 1/64  
 Saint-Petersburg  
 190000  
 Russia  
**Contact:** Mr Anton Rishnyak  
**Job Title:** Executive director CJSC "SMM"  
**T:** + 7 812 325 87 82  
**E:** anton@zaosmm.ru  
**W:** www.zaosmm.ru/  
**F:** + 7 812 325 87 83

## ZPMC - SHANGHAI ZHENHUA HEAVY INDUSTRIES COMPANY LIMITED

3261 DongFang Rd  
 Shanghai  
 PR  
 200125  
 China  
**Contact:** Mr Jinsheng Lei  
**Job Title:** Marketing & Senior Engineer  
**E:** lejinsheng@zpmc.com  
**W:** www.zpmc.com  
*World-famous manufacturer of cranes and large steel structures. Products include quayside container cranes, gantry cranes, shiploader/unloaders, bucket/wheel stackers and reclaimers, portal and floating cranes, engineering vessels and big steel bridge structures etc.*







**VERSTEGEN**  
GRAB INTELLIGENCE



Professional companies in more than 110 countries worldwide work with Verstegen grabs, because our grabs offer them the highest reliability and best productivity. Combining our extensive knowledge and experience with the feedback from our loyal customers results in optimized grabs for all bulk materials and unloading situations. We call this 'Grab Intelligence'.

Looking for increased reliability and productivity, lower maintenance costs and an extended lifespan? Let us know, because together we can move mountains.

# LET'S MOVE MOUNTAINS

[WWW.VERSTEGEN.NET](http://WWW.VERSTEGEN.NET)





## COAL HANDLING EQUIPMENT SUPPLIED

## KEY

SL	=	shiploaders
SUL	=	ship-unloaders
GL	=	grab loaders
GUL	=	grab unloaders
G	=	grabs
CSU	=	continuous ship-unloaders
BL	=	barge loaders
BU	=	barge unloaders
SU	=	self-unloaders & equipment
BE/L	=	belt conveyors/loaders
S	=	stackers
R	=	reclaimers
S/R	=	stacker/reclaimers
C	=	conveyors & accessories
F-EL	=	front-end loaders
H	=	hoppers
MHE	=	mobile bulk handling equipment
Cr	=	crushing
Sc	=	screening
BIn	=	blending
Wg	=	weighing
S&I	=	sampling & inspection
DC	=	dust control & suppression
DC&A	=	drives, controls & automation
ES	=	enclosed storage
SS	=	stockyard systems
RL/U	=	railcar loaders/unloaders
CBH	=	containerized bulk handling
EC	=	engineering consultants
O	=	other



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	BIn	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O	
4B BRAIME Components Ltd														✓										✓						✓	✓
A.E. Automation Pvt Ltd (Factory)	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓	✓
A.E. Engineers (S) PTE Ltd	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
AAF International																							✓								
AB Volvo Penta																	✓														
ABB AB	✓		✓	✓						✓			✓											✓						✓	
Abbey Rollers Limited																															
ABC Engineering LLC																									✓						
ABIAC																															
Ability Engineering LLC																															
Achenbach GmbH Metalltechnik														✓																	
Advanced Conveyor Technologies Inc (AC Tek)										✓	✓	✓	✓	✓															✓		
AFM International Inc.	✓										✓																✓			✓	
Ag Growth International (AGI)														✓																✓	
Agilitus Pty Ltd																															
Agrico Sales, Inc.	✓						✓			✓	✓			✓		✓									✓		✓				
Air Spectrum																							✓								
AJ Edmond Company																															
Alekon Cranes OÜ																															
Alex Stewart International Corporation Ltd																							✓	✓							
Alfred H Knight																						✓	✓								
Alpine Bulk Materials Handling GmbH	✓	✓		✓			✓			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓					✓				✓	
Alpine Canada																															
ALS Inspection UK Limited																						✓	✓								
Altra Industrial Motion														✓										✓							
AMECO Group	✓	✓					✓	✓			✓	✓	✓							✓					✓	✓	✓		✓	✓	
Anindya																							✓			✓	✓	✓		✓	
Anvil Attachments					✓																		✓								
Apollo Group																															
Applied Conveyor Technology, Inc. DBA The ACT Group											✓	✓		✓		✓		✓	✓					✓	✓			✓		✓	
ARAH EDAR (M) SDN. BHD.	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Ardelt Kranbau GmbH		✓	✓	✓			✓	✓																				✓		✓	
Arlona Engineering					✓					✓	✓			✓		✓												✓			
AS LNK Industries														✓																	
ASGCO "Complete Conveyor Solutions"														✓									✓							✓	



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Ashton Bulk Ltd																															
Astec	✓	✓					✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓					✓		✓	✓				✓
Astec Bulk Handling Solutions																															
ATLAS-SSI Co. Inc					✓																									✓	
AUMUND Foerdertechnik GmbH (AUMUND Group)										✓				✓		✓															
Aurecon																															
Aurecon																														✓	
Axiochos Ltd																															
Basic Machinery Co. Inc.																															
Bateman Manufacturing																															
Bauer Gear Motor GmbH																								✓							
Bauflex-Engineering LLP																															
Bedeschi SpA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Beijing HaoSheng Transmission Technology Co.																															
Belt Conveyor Guarding	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓		✓		✓	✓				
Belt Tech Industrial																															
Beltscan Systems										✓				✓									✓	✓							✓
Bendezu Port Equipment GmbH																															
Benetech GmbH																															
Benetech USA										✓				✓						✓			✓							✓	
BEUMER Group GmbH & Co KG	✓						✓			✓	✓	✓	✓	✓		✓	✓							✓		✓	✓			✓	✓
Bilfinger Tebodin																													✓	✓	
BITNER Kabel GmbH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓										✓				
Bleste SIA Port Equipment																															
Blue Water Misting																															
BLUG Credeblug S.L.	✓	✓	✓	✓	✓	✓	✓	✓	✓														✓	✓		✓					
BMH Global Pty Ltd										✓	✓			✓		✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓	✓	✓	
Bogaert Transmission (GEHA)														✓																	
Borghì Assali srl																								✓						✓	
BossTek																								✓						✓	
Bray Process Control																															
Brelko Conveyor Products														✓										✓						✓	
Breston B.V.																															
Bridon-Bekaert Ropes Group Global HQ														✓																✓	
Bruks Siwertell AB	✓										✓	✓	✓	✓				✓	✓							✓	✓				
Bruks Siwertell AB	✓										✓	✓	✓	✓				✓	✓							✓	✓				
Bruks Siwertell AB	✓	✓				✓	✓	✓		✓	✓	✓	✓	✓		✓	✓		✓	✓			✓	✓	✓					✓	
BSP ENGINEERING S.R.L						✓	✓																✓	✓		✓					
BTW Plant Solutions - a division of BT-Wolfgang Binder																															
Bulk Cargo Handling BVBA																															
Bulk Material Equipment																															
Bulk Storage Inc																															
Bureau Veritas																								✓							
Bureau Veritas																															
Bureau Veritas Fuels																															
Buttimer Engineering	✓	✓							✓	✓				✓		✓	✓						✓	✓						✓	
BV Beco					✓																										
BVS Cranes																															
C Spencer Ltd																															
Cachapuz – Weighing & Logistics Systems, Lda										✓														✓					✓	✓	
Calim Grab Industry			✓	✓	✓											✓	✓													✓	
Cambelt International LLC										✓		✓		✓			✓									✓		✓			
Capotex																															
Caterpillar (UK) Ltd.																															
Caterpillar SARL	✓	✓					✓	✓							✓															✓	
Cavotec SA																	✓														
CCTEGIEC																															
CDM Systems, Inc	✓	✓					✓	✓						✓														✓			✓
Changsha Kaiyan Instruments Co. Ltd																															
CHIA Espirales														✓		✓								✓						✓	
China Huadian Engineering Co., Ltd																														✓	
CICSA Group	✓	✓										✓	✓	✓																✓	✓
Cimbria A/S	✓						✓			✓				✓		✓	✓	✓	✓				✓	✓	✓		✓			✓	
Cintasa Americas										✓	✓			✓			✓										✓				✓
CINTASA S.A.U.										✓	✓			✓		✓	✓														
Cita Logistics Pty Ltd																							✓								
Civettini Italo & c sas (CFS Handling)						✓																									
Claudius Peters Projects GmbH	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓				✓	✓	✓	✓			✓	✓
Claudius Peters Technologies S.A.S											✓	✓	✓	✓		✓												✓			
Cleveland Cascades Ltd																							✓								
CNBM International Eng Co.		✓								✓	✓	✓	✓																		
Coal Control																															



152



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	Bln	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O	
ESI Eurosilco BV											✓	✓	✓							✓					✓	✓				✓	
ESL Power Systems, Inc.																															
Euromec S.r.l.					✓																										
Euro-Tramco BV						✓								✓																	
Excel Machinery																															
F. Harley & Co. Pvt. Ltd.																							✓								
Fabtech International Ltd																															
FAM Minerals & Mining	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓				✓
FAMAK SA	✓			✓	✓						✓	✓	✓	✓											✓	✓					
Fenner Dunlop Americas																															
Fenner Dunlop Conveyor																															
Belting										✓				✓																	
Fenner Dunlop Conveyor											✓	✓	✓	✓																	
Belting Europe										✓	✓	✓	✓	✓																	
Fenner plc														✓																	
Flender GmbH																								✓							
Flexco														✓																	
Flexco Europe GmbH										✓				✓																	
Flexicon Corporation																															
Fogco Systems, Inc.																							✓								
Frigate Technologies Private Limited																															
FWS Group																															
Gama Endustri Tesisleri																															
Imalat Ve Montaj AS	✓	✓	✓			✓				✓	✓	✓	✓	✓		✓		✓	✓	✓	✓				✓	✓					✓
Gambarotta Gschwendt Srl	✓	✓				✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	✓
Ganz Danubius HUTI Kft					✓																										✓
GBS Colombia SAS	✓									✓	✓			✓			✓														✓
Generac Mobile Products Srl																							✓								
General Kinematics																															
Geo - Chem Laboratories																						✓	✓				✓				
Private Limited																															
Geometrica Inc																						✓	✓			✓		✓			
Gertech Handling Systems cc														✓									✓		✓						
GF MHS Srl	✓						✓			✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Global Manufacturing, Inc.		✓				✓			✓							✓	✓						✓					✓	✓	✓	✓
Global Technics OU																												✓	✓	✓	✓
Golden West Industries																							✓					✓	✓	✓	✓
Grapplers India Pvt Ltd																															
(Essar Industries)																															
Günter Jung GmbH																															
Gurtec GmbH																															
Guttridge Limited		✓				✓				✓				✓		✓			✓		✓										
Guven Grab Machine Inc.					✓																										
Hackforth Holding GmbH																															
Häggglunds																								✓							
Hammelmann GmbH																															
Hangzhou Huaxin Mechanical																															
& Electrical Engineering Co..																															
Hapman														✓			✓														
Hasel Machinery Inc																								✓							
Haskoning India Pvt Ltd																															
Hatch	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
HAUK & SASKO																															
Ingenieurgesellschaft GmbH																															
Haulder S.A.																															
Haver & Boecker Niagara																			✓												✓
Heavy Handling	✓	✓	✓	✓	✓		✓	✓									✓														✓
HEKO Ketten GmbH																															
Henan SRON Silo Engineer'g																															
Herjimar S.L																															
Heyl & Patterson Equipment																															
Member of The HALL Group	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	✓		✓	✓					✓	✓				✓	✓	✓	✓	✓
HIT S.r.l.																															
Hitachi Construction																															
Machinery (Europe) NV																															
HKD Blue																							✓	✓							✓
Horizon Conveyor Equipment										✓	✓	✓	✓	✓								✓									
HOSCH Fördertechnik																															



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	BIn	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O		
Imperial Conveying Systems	✓						✓	✓	✓	✓	✓	✓		✓		✓		✓			✓					✓	✓		✓			
Impro Solutions Inc																																
Incolab Services BV																					✓	✓										
indurad - The Industrial																																
Radar Company	✓	✓				✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓				✓		✓	✓	✓					
indurad GmbH	✓	✓				✓				✓	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓		✓		✓	✓	✓				
Inenco SAC																																
Innomotics GmbH																																
INOCON Industrial Plants						✓								✓																		
Instral B.V.																								✓								
Intermodal Solutions Group																																
Intermodal Solutions Pty Ltd																																
International Crane Factory																																
ION																																
iSAM AG Gesellschaft fuer																																
angewandte Kybernetik	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓								✓	✓		✓		✓	✓		✓			
ISIK Engineering																																
ISKAR Mühendislik Ltd	✓	✓	✓	✓						✓	✓			✓		✓	✓													✓		
Isomonte SA	✓	✓			✓						✓																					
Italgru S.r.l																																
J & B Grippers b.v.					✓																											
Jacobs	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓	✓	✓		✓		
James A. Redding Company																																
Jansen & Heuning																																
Jenike & Johanson Inc.	✓									✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓		
JFE Engineering Corporation																																
Jiangsu QunShuo Heavy Ind																																
Jiangsu Rainbow Heavy																																
Industries Co., Ltd.																																
Jiangsu ZDPM Manufacturer																																
Jimway Enterprise Co., Ltd	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓								✓	✓				
Johannes Hübner Fabrik	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓		
Joy Global Inc																																
Kalenborn Kalprotect GmbH	✓	✓				✓			✓	✓	✓		✓	✓		✓		✓	✓							✓	✓		✓	✓		
Kardesler Grab & Machine Co.									✓	✓	✓																					
KenzFigee Group B.V.	✓	✓	✓	✓			✓	✓									✓															
Kiepe Electric GmbH - Industry														✓										✓			✓					
Kilic Engineering																																
Kinder Australia Pty Ltd						✓			✓					✓										✓					✓	✓		
Kingfisher Industrial Ltd	✓	✓				✓				✓				✓			✓	✓	✓					✓			✓			✓		
KINSHOFER GmbH					✓												✓							✓			✓			✓		
Kiruna Wagon AB																																
Kleemann GmbH														✓				✓										✓				
KMK consulting Engineers	✓						✓		✓	✓	✓	✓	✓	✓			✓	✓								✓	✓	✓		✓		
Knight Industrial Equipment																										✓	✓	✓				
KOCH Solutions GmbH	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓	✓			✓		✓	✓	✓	✓		✓	✓	✓	✓	✓				
Komatsu Mining Corp. Group																																
Konecranes (France)	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓		✓		✓								✓						
Konecranes Finland Corp		✓	✓	✓				✓																	✓							
Konecranes Port Solutions -																																
Konecranes GmbH	✓	✓	✓	✓			✓	✓									✓				✓									✓		
Kotta Container Company Ltd																																
Krech Ojard & Associates																																
Kröger Greifertechnik GmbH					✓																											
Kumera Corporation																																
Kumera Getriebe GmbH																																
Kumera Getriebe GmbH																																
LA STEPHANOISE																																
Laidig Systems Inc												✓				✓														✓	✓	
Laing O'Rourke	✓	✓												✓																✓	✓	
Larsen & Toubro Limited																																
Lassing Dibben Consulting																																
Engineers Ltd	✓						✓	✓	✓	✓	✓	✓	✓	✓		✓		✓	✓				✓		✓	✓	✓	✓		✓		
Lawrence Industries, Inc.																																
LD Ports & Logistics																														✓		
LDPL Middle East Shipping																																
LEITNER S.p.A (AGUDIO)										✓				✓																✓	✓	
Leon Overseas Pte. Ltd																																
Liebherr-Hydraulikbagger																																
GmbH			✓	✓	✓		✓	✓							✓		✓											✓			✓	
Liebherr-MCCtec Rostock																																
GmbH	✓	✓	✓	✓			✓	✓																								
Lion Bulk Handling b.v.																																
Listenow GmbH & Co.	✓	✓					✓	✓						✓										✓				✓		✓	✓	
Loibl Förderanlagen GmbH	✓	✓									✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
Lorbrand																																
LSL Consulting Pty Ltd																																
Lybover	✓	✓			✓	✓	✓	✓			✓	✓	✓	✓		✓		✓	✓				✓							✓	✓	
M.A.T. MALMEDIE ANTRIEBS																																
TECHNIK GmbH																																
Macawber Engineering, Inc																																
MacGregor Sweden AB			✓	✓					✓	✓					✓		✓													✓		
Mack Manufacturing Inc					✓																											
Magaldi Power S.p.A.																																
MAJOR																																



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	BIn	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O	
Marco – A Terex Brand	✓	✓					✓	✓		✓	✓			✓		✓	✓											✓			
Marine Inspection LLC																															
Martin Engineering										✓				✓									✓					✓		✓	✓
Martin Engineering GmbH														✓								✓	✓						✓	✓	
Maschinen und Mühlenbau														✓																	
Erhard Muhr GmbH	✓						✓	✓		✓				✓						✓								✓			
Maschinen-und Industriebau																															
Feld GmbH	✓				✓		✓			✓				✓		✓															
Matrix PDM Engineering																															
Maze MH Ltd	✓	✓		✓	✓					✓	✓	✓	✓	✓	✓	✓	✓		✓		✓						✓				✓
McCreath Laboratories																						✓							✓		✓
MCI Group																							✓								
MDG Handling Solutions S.r.l.																															
MegaDome® Buildings by Harnois																															
MegaRoller Africa																															
Mentor Dynamics	✓							✓	✓						✓	✓	✓		✓												✓
Merit Technologies India																															
Pvt Ltd							✓			✓				✓		✓	✓					✓	✓	✓	✓			✓			
Merrick Industries														✓							✓	✓									
Metalkarma Engineering																															
Technologies pvt ltd																															
Metso													✓	✓					✓	✓											
Metso Minerals Industries, Inc.	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓												✓		✓			✓
Metso USA, Inc.	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓												✓		✓			✓
Meyland NV																															
MGB & Company	✓												✓	✓		✓		✓	✓							✓					
MHM Mobile Heavy Machinery																															
Mideco Jia Pty Ltd																✓								✓							
Midwest Industrial Supply Inc																								✓							
Midwest International																															
Standard Products, Inc.	✓	✓																						✓				✓			✓
Mineral Processing Solutions	✓		✓	✓	✓		✓			✓	✓		✓	✓		✓	✓	✓	✓	✓	✓							✓			
Mist-Air Dust Suppression Ltd																															
Mitsubishi Chemical																															
Advanced Materials Inc.	✓	✓				✓	✓	✓	✓	✓				✓		✓														✓	✓
Mitsui Miike Machinery Co.																															
Mobile Conveying Services																															
Moffatt & Nichol																														✓	
Mole Master Services Corp™																✓										✓					✓
Monolithic Constructors, Inc.																															
Motridal SpA	✓					✓	✓	✓		✓	✓	✓		✓		✓		✓	✓	✓	✓			✓					✓		
MRS Greifer GmbH		✓	✓	✓	✓																										
MTECK																															
N.M. Heilig B.V.	✓	✓					✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nanjing Port-Machinery & Heavy-Industry Manufacture Co., Ltd (NPHMC)																															
Nantong Rainbow Heavy Machineries Co.,Ltd.	✓	✓	✓	✓		✓				✓						✓	✓														
Nantong UP Machinery Eng																															
Natural Grabs					✓																										
NAVCO (National Air Vibrator Co)																															
Navonus NV																															
Negrini Srl					✓																										
Nemag BV			✓	✓	✓		✓	✓									✓														
Neuero Industrietechnik GmbH	✓					✓	✓	✓																							
NILOS GmbH & Co KG						✓			✓	✓	✓	✓	✓	✓			✓		✓					✓			✓	✓		✓	✓
NK Tehnologija SIA	✓						✓			✓				✓		✓	✓						✓							✓	✓
NKM Noell Special Cranes																															
NMH s.r.o																															
Noell Crane Systems (China)																															
Norda Stelo																															
Northern Heavy Industries																															
NSL Engineering Pte Ltd																															
o.z. HENNLICH ENGINE'ING	✓						✓																	✓							
OPS Crushing & Screening																															
Orthos Projects Ltd.				✓										✓		✓			✓	✓	✓	✓		✓	✓					✓	
ORTS GmbH Maschinenfabrik					✓																									✓	
Overland Conveyor Company																															
P.T. Mitra S.K. Analisa testama																															
PAGE MACRAE ENG'G					✓											✓	✓						✓								✓
Pakiet																	✓	✓													



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	BIn	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O		
Pfister Waagen Bilanciai GmbH																					✓											
PHB Weserhütte, S.A.	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓				✓				✓	✓	✓	✓			✓		
PHOENIX Conveyor Belt Systems GmbH										✓				✓																		
PLM Cranes B.V.			✓	✓			✓	✓	✓																							
Pneumat Systems Inc																✓											✓			✓		
Polymer Industries - Ultrapoly Division																											✓			✓		
Port & Terminal Solutions LLC																														✓		
Port-Trade AS	✓	✓	✓	✓	✓					✓						✓	✓														✓	
Powerscreen														✓					✓	✓											✓	
PRDW Consulting Port and Coastal Engineers																															✓	
Precia-Molen Nederland BV														✓		✓						✓										
Premier Tech Chronos b.v.																																
Procon Engineering Limited																					✓	✓					✓					
ProStack																																
PSB Inspection																		✓	✓	✓	✓	✓	✓									
PT Armada Rock Karunia Transshipment																	✓														✓	
PT Asian Bulk Logistics																																
PT Boma Bisma Indra																																
PT Bukaka Teknik Utama																															✓	
PT Carsurin																							✓								✓	
PT Geoservices																							✓									
PT Jakarta Prima Cranes																							✓								✓	
PT MBSS																																
PT Mitra Bahtera Segarasejati																																
PT Pamapersada Nusantara																																
PT SpanSet Indonesia																															✓	
PT Thiess Contractors Indon.																																
PT. Bando Indonesia														✓																		
PT. Hardjadinata Pratama Internasional																																
PT. Lelangon																																
PT. Thermalindo Sarana Lab																							✓									
QCA Systems Ltd.	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓						✓	✓	✓	✓	✓	✓	✓	✓	✓		
Qingdao Haixi Heavy-Duty Machinery Co.Ltd																																
Qingdao Huaxia Rubber Industry Co. Ltd.	✓	✓				✓				✓	✓	✓	✓	✓			✓	✓	✓								✓					
Quality Handling Systems Pty Ltd (Part of Consep Pty)																				✓			✓									
Quanergy																																
Quarry Mining LLC	✓						✓	✓			✓			✓		✓		✓	✓					✓			✓					
Qube Ports & Bulk																																
R & S Srl / Roncuzzi -																																
WAM Group	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						✓	✓	✓	✓		✓	✓		✓	✓	
RAM Lifting Technologies	✓	✓	✓	✓	✓		✓										✓						✓		✓		✓		✓			✓
Rapat Corporation																																
RBL REI																																
RBL-REI France										✓	✓	✓		✓		✓					✓	✓					✓					
RC Inspection B.V																							✓									
Real Time Instruments																	✓				✓	✓	✓	✓						✓	✓	
REEL Möller GmbH	✓																									✓				✓	✓	
Reel S.A.S.	✓	✓																								✓				✓	✓	
Reel S.A.S.	✓	✓																														
REMA TIP TOP AG	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓		
RENK Aktiengesellschaft																																
Werk Augsburg																																
REPA Conveyor Equipment	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓		✓					✓									✓	
RHC Deutschland GmbH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					✓		✓			✓	✓		✓		
Richmond Engineering Works	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			✓								✓		✓	✓		✓		
Richwood Industries, Inc.																															✓	
RIEGL Laser Measurement Systems GmbH																																
RIKON A/S	✓	✓	✓	✓	✓		✓	✓									✓								✓						✓	
RINA Consulting S.p.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓		✓													✓		
Ringspann GmbH																									✓							
Rocktree Logistics Pte. Ltd.	✓	✓			✓	✓	✓	✓	✓	✓					✓	✓	✓			✓	✓	✓	✓	✓	✓	✓				✓	✓	
Ronin System Solutions													✓		✓							✓	✓		✓	✓	✓				✓	
Rossi S.p.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓			
Rotobec																																
Roxon Oy	✓						✓			✓	✓	✓		✓		✓	✓										✓				✓	
Rubb Buildings Ltd																								✓		✓						
Rud Chains																																
RULMECA HOLDING S.P.A.																															✓	
SABS Mining & Minerals																						✓								✓		
SAMMI S.r.l.																																
(an Integra Holding S.r.l. company)	✓	✓				✓	✓			✓	✓	✓	✓	✓		✓		✓			✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	Bln	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O
Sampling Associates International																							✓							
SAMSON Materials Handling Ltd (AUMUND Group)	✓	✓					✓			✓	✓					✓	✓						✓				✓			
Sandvik Mining and Rock Solutions																														
SANY Europe GmbH			✓	✓	✓		✓	✓			✓				✓		✓											✓		
SAS Global Corp																														
SBEC (Pty) Ltd																														
Scantech International																				✓			✓	✓						✓
SCHADE Lagertechnik GmbH (AUMUND Group)	✓										✓	✓	✓							✓					✓	✓	✓			
Schrage Rohrkettensystem GmbH Conveying Systems																														
Schulte Strathaus GmbH														✓																
Scorpio Engineering BMH Pvt	✓	✓	✓	✓		✓	✓	✓	✓	✓				✓		✓	✓			✓	✓		✓		✓			✓	✓	
ScrapeTec International GmbH														✓									✓							
Seabulk Inc	✓								✓																			✓	✓	
Sempertrans Conveyor Belt Solutions GmbH														✓																
SENNEBOGEN Maschinenfabrik GmbH	✓	✓	✓	✓			✓	✓									✓													
Sensor Technology Ltd																						✓		✓						
SERAM SA	✓		✓	✓			✓	✓								✓								✓						✓
SESCOTRANS For Developed Logistics (SAE)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			✓	✓
SEW-EURODRIVE GmbH & Co KG																								✓						
SGS (Nederland) BV																							✓							
SGS Canada Inc																				✓	✓	✓			✓				✓	
SGS Minerals Services																						✓								
Shandong Kaiyuan Heavy Machinery Co., Ltd.																														
Shanghai Global Machinery Co Ltd																														
Shanghai Guanbo Machinery Equipment Co.,Ltd					✓																									
Shanghai Janus Grab Co., Ltd.			✓	✓	✓												✓													
Shanghai Yo-Pi Port Machinery Co. LTD																														
Shanthy International	✓	✓	✓	✓	✓	✓	✓	✓		✓																				
Shi.E.L.D. Services srl	✓		✓	✓	✓		✓		✓	✓				✓	✓	✓	✓			✓		✓	✓							✓
SIA Graviti			✓	✓	✓											✓												✓		
SIBRE - Siegerland Bremsen GmbH														✓										✓						✓
Siebtechnik GmbH																		✓	✓				✓							
Siebtechnik Tema																		✓	✓				✓							
Siebtechnik Tema BV																		✓	✓				✓							✓
Siemens AG																														
Siemens AG																									✓					✓
Siemens Nederland NV																								✓						
Siethom Group																														
SIG - Società Italiana Gomma Spa	✓	✓				✓				✓	✓	✓	✓	✓			✓	✓								✓				
Simplicity Projects Pvt Ltd		✓				✓	✓			✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓		✓	✓	✓		
Sly LLC																								✓						
SMAG PEINER Grabs (India) Pvt. Ltd.																														
SMB International GmbH	✓	✓					✓	✓		✓	✓	✓	✓	✓																✓
Smiley Monroe Ltd														✓				✓	✓				✓							✓
Sobemai Crane Services bv	✓				✓		✓	✓																			✓			
Solitec Engineering Ltd														✓		✓														
Sotecma	✓	✓							✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓			✓	✓	✓		✓
Spohn + Burkhardt																														
Sicherheitstechnik GmbH														✓										✓						
Spraystream																								✓						
STAG AG											✓			✓												✓		✓		✓
Standard Industrie	✓	✓									✓			✓			✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓
Stantec	✓	✓				✓					✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Stemm Equipos Industriales, S.L.			✓	✓	✓		✓	✓									✓												✓	
STM Industriale ApA	✓						✓			✓	✓			✓		✓	✓	✓	✓							✓				
STM SpA																								✓						✓
Stokman BV		✓					✓	✓						✓													✓			
Strudes Inc	✓	✓			✓	✓	✓	✓		✓	✓	✓	✓			✓		✓	✓	✓	✓	✓	✓		✓	✓	✓		✓	
STUDIO TECNICO MALNATI SAS										✓				✓				✓	✓					✓					✓	✓
Sucofindo																														
Sumitomo Heavy Industries Material Handling Systems Co., Ltd.	✓	✓		✓		✓	✓	✓			✓	✓	✓	✓												✓	✓			



	SL	SUL	GL	GUL	G	CSU	BL	BU	SU	BE/L	S	R	S/R	C	F-EL	H	MHE	Cr	Sc	Bin	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O
Superior Industries																														
Superior Industries, Inc.	✓	✓					✓	✓		✓	✓	✓	✓	✓		✓											✓			
Supreme Manufacturing, Inc.																														
Synergy Engineering Ltd	✓	✓				✓	✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓				✓	✓			✓	✓	✓	
Tadano Infrastructure Solutions Ltd.	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓												✓			✓	✓
Tamtron Group																														
Tank Connection																									✓					
TAPC - Total Air Pollution Control																														
TBA Group																								✓						✓
TBK Group bv														✓				✓	✓				✓	✓						
TD Micronic	✓									✓	✓	✓	✓	✓							✓		✓							
techNaero aps														✓									✓							
Tecpro Australia																							✓							✓
TEHNOROS	✓		✓	✓	✓	✓					✓	✓	✓				✓			✓										
Tele Radio		✓												✓							✓						✓	✓		✓
Tele Radio i Lysekil AB	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓	✓	
Telestack Limited	✓	✓					✓	✓		✓	✓	✓	✓	✓		✓	✓			✓			✓	✓		✓	✓	✓		✓
Tenova S.p.A.	✓	✓		✓		✓	✓	✓			✓	✓	✓	✓		✓				✓					✓	✓	✓			✓
Terex																														
Terex Deutschland GmbH	✓	✓			✓		✓	✓		✓							✓						✓				✓			
Teufelberger Seil Ges.m.b.H		✓		✓				✓	✓	✓				✓																✓
The Grab Specialist b.v.					✓																									
The Hilliard Corporation																														
The Raring Corporation																							✓							
THIELE GmbH & Co KG												✓		✓																✓
Thor Global Enterprises Ltd.	✓						✓	✓	✓	✓	✓			✓		✓	✓												✓	
Thorwesten Vent																														
Tidfore Heavy Industry Manufacturing Co., Ltd																														
Tinamu Labs AG																														
TMEIC																														
TMSA Tecnologia em Movimentação S/A	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓		✓			✓	✓	✓	✓	✓			✓	✓			✓
Tobu Jukogyo Co. Ltd.					✓											✓														
Topcon Technology Ltd																						✓								
TPI Engineered Systems																														
Trans-Global Solutions, Inc.														✓																
Trans-Global Solutions, Inc.														✓																
Transship LTD																														
TRF Limited (TATA)	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓	✓	✓		✓	✓	✓			✓				✓			✓
Triodetic																							✓		✓					
Tru-Trac Rollers (Pty) Ltd																														
TSP Korea																														
Tsubaki Conveyor Systems India Pvt. Ltd																														
Tsubaki Kabelschlepp GmbH	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓										✓			✓	✓			
Tsubakimoto Bulk Systems Corp.														✓																
ULMA Conveyor Components																														
Veenstra Machinefabriek B.V.	✓																						✓							
Verstegen Grippers BV					✓																									
Vibco Inc														✓		✓							✓					✓		
Vibrafloor		✓				✓		✓				✓											✓				✓	✓		
Virta Inc.	✓	✓								✓	✓	✓	✓	✓		✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓
VIVO consult s.r.o.																														
Vollert Anlagenbau GmbH																											✓			✓
Vortex Global Limited	✓						✓							✓									✓							✓
VSR Industrietechnik GmbH	✓	✓	✓								✓	✓	✓	✓									✓							✓
Wajax																														
WAMGROUP S.p.A.																														
WeatherSolve Structures																							✓							
Weba Chutes																													✓	✓
WEG																														
Weightron Bilanciai Ltd																														
Weir-Motion Metrics																														
Westmar Advisors	✓	✓												✓		✓							✓				✓			✓
Wirtech AG														✓																
Wolf Material Handling Systems	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓		✓	✓										✓			
Wolf Point Engineers & Contractors	✓		✓	✓			✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Wölfer by WiCHMANN E GmbH																								✓						
Wood																														
World Domes																										✓				✓
Wuvio International																							✓							
Yemaux-Pasage																						✓								
ZAO SMM (CJSC SMM)																														
ZPMC - Shanghai Zhenhua Heavy Industries Company Limited	✓	✓	✓	✓			✓	✓			✓	✓	✓	✓										✓					✓	



**885 G**

HYBRID

ELECTRO

GREEN HYBRID  
SYSTEM SAVES  
35 % ENERGY



For further information  
→ [sennebogen.com/885](https://sennebogen.com/885)

# 320 T MATERIAL HANDLER FOR DEMANDING PORT HANDLING

- Bulk handling up to 38 m, Container handling and crane lifts up to 50 t
- Several power options: Diesel / Electric / Electric with Powerpack for independent maneuverability
- The new G series- most comfortable, easy to operate, reliable in service
- Best overview from 22 m eye-level



Telehandler

Balancer

Material Handling

Duty Cycle Crane

Crawler Crane

Telescopic Crane

Mobile Harbour Crane

Robert Aumüller

SENNEBOGEN  
Maschinenfabrik GmbH  
94315 Straubing, Germany  
[robert.aumueller@sennebogen.de](mailto:robert.aumueller@sennebogen.de)

**SENNEBOGEN**



The Konecranes logo is displayed in a bold, red, sans-serif font at the top left of the page. The background of the entire advertisement is a photograph of a large blue and white mobile harbor crane at a port. The crane's lattice boom is extended high into a blue sky with scattered white clouds. A large, dark-colored grab bucket is suspended from the crane's cables on the right side of the frame. In the lower right, the side of a large cargo ship is visible, showing its red and blue hull. The crane's base is a white mobile unit with 'Ership' and 'KONECRANES' written on its side. The overall scene conveys a sense of industrial strength and efficiency.

**KONECRANES**

# Grab stronger performance

Konecranes Gottwald Mobile Harbor Cranes ensure highly efficient handling of bulk materials of all kinds. Our Generation 6 four-rope grab cranes will impress you with their robustness. With their 74 t grab curves and high classifications for a long service life, they handle up to 2,200 tph. The result: strong performance over the long term – even in continuous operation.

**Strengthen the efficiency of your bulk handling with our new Generation 6!**



Just scan this QR code to configure  
the right crane model for your needs  
[mhc-product-advisor.konecranes.com](http://mhc-product-advisor.konecranes.com)