



DRY CARGO *international*

25th
anniversary

WWW.DRYCARGOMAG.COM

ISSUE NO. 284 OCTOBER 2024



STEELPAINT

FEATURES

■ European Coal Trades

■ Stockyard Technologies

■ Loading Technologies

■ Coal Handling Directory

■ Floating Cranes & Offshore Stevedoring

The world's leading and only monthly magazine for the dry bulk industry

CELEBRATING

80

YEARS OF
INNOVATION

MARTIN® TRANSFER POINT KITS

KEEP IT CLEAN.



Martin's Modular Slider Cradle stabilizes the belt's path to improve sealing and tracking.

Increasing production while safeguarding workers and the jobsite is our mandate for ongoing innovation in conveyor system technology.

Martin® Transfer Point Kits, with modular loading, settling and stilling zone configurations, deliver a wide variety of chute options engineered for dust and spillage containment. These kits and associated belt control components reduce harmful conditions caused by fugitive material—decreasing clean-up time and equipment maintenance for maximum efficiency and productivity.

Think Clean.®

 ***martin***
engineering

Long-lasting corrosion
protection systems for many
highly stressed areas on all types of vessels as
well as port facilities including container bridges.

Easy to apply even for repair purposes and
highly surface tolerant for shipyard and crew
during drydocking or during voyages even under
challenging weather conditions.

The perfect cathodic zinc protection for:

- container holds
- cargo holds
- tank tops
- ship decks

Steelpaint GmbH

W: www.steelpaint.com

PUBLISHERS

Jason Chinnock

jason@dc-int.com

Andrew Hucker-Brown

andrew@dc-int.com

EDITORIAL

Louise Dodds-Ely Editor

louise@dc-int.com

Jay Venter Deputy Editor

editorial@dc-int.com

Samantha Smith Directories

directories@dc-int.com

Bernice van Wyk Office Manager

accounts@dc-int.com

SALES

Matthew Currin Senior Sales

sales2@dc-int.com

Zack Venter Advertisement Sales

sales@dc-int.com

CORRESPONDENTS

Brazil **Patrick Knight**

India **Kunal Bose**

Europe **Barry Cross**

UK **Maria Cappuccio**

UK **Michael King**

UK **Richard Scott**

ADMINISTRATIVE OFFICE

Business Publishing International
Corporate Park, 11 Sinembe Crescent

La Lucia Ridge, South Africa, 4051

Tel: +27 31 583 4360

Fax: +27 31 566 4502

Email: info@dc-int.com

Twitter: twitter.com/drycargomag

HEAD OFFICE

Trade Publishing International Limited

Clover House, 24 Drury Road,

Colchester, Essex CO2 7UX, UK

Tel: +44 (0)1206 562552

Email: info@dc-int.com

Website: www.drycargomag.com

Twitter: twitter.com/drycargomag

ISSN 1466-3643

Insta: www.instagram.com/drycargointernational

Trade Publishing International Ltd does not guarantee the
information contained in Dry Cargo International, nor does
it accept responsibility for errors or omissions or their
consequences. Opinions expressed herein are not
necessarily those of Trade Publishing International Ltd

© Trade Publishing Int'l Ltd 2024



WWW.DRYCARGOMAG.COM

OCTOBER 2024 issue

featuring...



TRADE & COMMODITIES

Restraints may affect grain & soya trade 2

Ocean freight market developments for grains continue subdued 4

EUROPEAN IMPORTERS' COAL APPETITE FADES 5

SHIPPING & TRANSPORT

Vive la différence: Epoxy Coating vs Steelpaint's Polyurethane Zincing 10

Panamax bulk carrier transits of Panama Canal down by 35% 12

NSU to install rotor sails to Valemax VLOC 14

GEARED BULKERS, FLOATING CRANES, TRANSHIPMENT AND OFFSHORE STEVEDORING 15

PORTS, TERMINALS & LOGISTICS

Ports of Indiana, Indiana State Department of Agriculture sign MOU 30

The UK's Port of Liverpool welcomes the UK's largest whole maize vessel 29

Business booming at Santos 31

Bulk business rising in Brazil 31

Bergé acquires second LHM 550 for Tarragona 31

New grain terminal at DP World's Port in Santos boosts Brazil's export capacity 32

ENGINEERING & EQUIPMENT

Bruks Siwertell secures new ship-unloader order for major grain handler 35

Liebherr and ICO celebrate second LHM 550 at Antwerp XL 38

100 years of passion for performance at Nemag 40

Klasco receives powerful new E-Crane 42

FIRST LPS 600 IN GERMANY BOOSTS LOGISTICS FOR J. MÜLLER 43

KEEPING SHIPSHAPE WITH HIGH-TECH BULK LOADING SYSTEMS 47

MAKING LIGHT OF BIOMASS CARGOES: HANDLING EQUIPMENT UNDER SCRUTINY 71

STOCKYARD SYSTEMS AND TECHNOLOGIES IN THE SPOTLIGHT 87

COAL HANDLING DIRECTORY

119

DCi **DRY CARGO**
international

Restraints may affect grain & soya trade

Signs of added support for commodity import demand in a range of countries have become more visible in data emerging recently. These positive elements could enable the world seaborne dry bulk trade trend to continue strengthening into 2025.

Benefits derived directly from advances in economic activity in the main dry bulk commodity importing countries currently are modest. OECD economists in their latest end-September assessment nevertheless emphasize that "global output growth has remained resilient and inflation has continued to moderate". World GDP growth is forecast to stay almost unchanged at 3.2% in both 2024 and 2025 after a similar 3.1% last year.

GRAIN & SOYA

Indications pointing to a mixed pattern of grain and soya trade during the next twelve months have emerged. Following a strong performance through most of this year, tentative estimates for the period ahead suggest that momentum may slow or reverse, although import demand in numerous countries is not easily predictable.

Prospects for soyabeans and meal trade suggest that further expansion may prove elusive. As shown in table 1, US Department of Agriculture calculations published in mid-September showed a 17mt (million tonnes) or 7% increase in world soya trade within the 2023/24 marketing year just ended, to 248mt. In 2024/25 now starting, the

upwards trend may flatten. China's imports are expected to decrease from the record high volume seen in the past twelve months, offset by growth elsewhere.

COAL

Global import demand for coal has been well supported this year and may remain buoyant in the year ahead, although there are doubts about whether some countries' purchases will remain as elevated as seen recently. Positive influences are still evident, but potential negative changes also are clearly an element that is likely to have a weakening effect eventually.

A slightly downbeat forecast is contained in the latest quarterly update prepared by analysts at the Australian Government Department of Industry. This report suggests that global trade in steam and coking coal (including land movements, but mostly seaborne), could be marginally lower by 13mt or 1% in 2024, compared with last year's 1,462mt volume, at 1,449mt. Steam coal trade may be under 1% lower at 1,108mt, while coking coal trade decreases by 2% to 341mt.

IRON ORE

Sustained annual growth in world seaborne iron ore trade seems likely to be achieved during 2024, but the incremental volume is dependent on China's import expansion. In the 'other importers' group comprising about a quarter of the global total, an increase

seems unlikely, amid weakness in the European Union and Japan.

In the first eight months of 2024, iron ore imported by China totalled 815mt, a 5% rise compared with last year's same period. This strong performance may not continue, however. Restraints on steel demand in China's domestic market have been reflected in a 3% steel output reduction within this period, implying lower raw materials inputs are required. Additional ore imports have been used to rebuild port stocks.

MINOR BULKS

Trends in minor bulk trades movements suggest that a broadly positive pattern in this huge segment is unfolding. Global volumes of many industrial and agricultural commodities seem to be expanding in 2024. More activity in the steel products, forest products and bauxite/alumina trades, together comprising over two-fifths of the total, is evident.

BULK CARRIER FLEET

Among bulk carrier size groups, the 'Panamax' (70–99,999 deadweight tonnes) segment, including kamsarmax vessels, is maintaining solid growth. Newbuilding deliveries in 2024 are expected to be similar to last year's level, as shown in table 2, while scrapping remains quite low. The resulting estimated fleet deadweight growth of about 3.5% over the twelve months to end-2024 is similar to that seen in several previous years.

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

	2019/20	2020/21	2021/22	2022/23	2023/24 *	2024/25 *
European Union	31.4	31.3	31.1	29.2	30.1	30.8
China	98.6	99.8	90.4	104.5	111.6	109.1
Other Asia	38.0	38.4	38.2	36.8	39.2	41.4
Others	61.3	62.0	62.0	60.6	67.0	67.7
World total	229.3	231.5	221.7	231.1	247.9	249.0
% change from previous year	+9.1	+1.0	-4.3	+4.3	+7.3	+0.4

source: US Dept of Agriculture, 12 September 2024 October/September marketing years * forecast

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

	2019	2020	2021	2022	2023	2024*
Newbuilding deliveries	11.4	12.0	8.6	9.8	10.9	10.5
Scrapping	0.4	1.0	0.7	0.8	2.3	1.5
Losses	0.1	0.0	0.0	0.0	0.0	0.0
Plus/minus adjustments	0.0	-0.1	0.1	0.1	-0.1	0.0
World fleet at end of year	217.6	228.5	236.5	245.6	254.1	263.0
% change from previous year-end	+5.3	+5.0	+3.5	+3.8	3.5	3.5

source: Clarksons (historical data) & BSA *BSA September 2024 forecast

by Richard Scott, Bulk Shipping Analysis, Tel: +44 (0)12 7722 5784; Fax: +44 (0)12 7722 5784; e-mail: bulkshipan@aol.com



New for 2024

Rotainer [®] **MH42** **MATERIALS HANDLER**

World's Most Recognised Brand in Containerised Bulk Handling

42 Tonnes – 40ft - Multidirectional

Biomass – Wood Chips - Wood Pellets - Waste



CRS - Container Rotation Systems
Sydney Australia

Celebrating 15 Years of Innovation 2009–2024

www.rotainer.com

sales@rotainer.com

©2024

Ocean freight market developments for grains continue subdued

Mixed movements were seen in dry bulk freight rates in the period from mid-August to mid-September, as the benchmark Baltic Dry Index gained by a net 9% month-on-month, with values quoted around one-third higher year-on-year. Although vessel earnings in the grains and oilseeds carrying sectors declined over the past month, this was more than offset by a solid rebound in demand for the largest Capesize vessels.

Reflecting declines in both timecharter rates and fuel costs, the IGC's Grains and Oilseeds Freight Index retreated by 6% month-on-month, led by a marked drop in rates from Brazil and Argentina, while gains were recorded in Australia.

While logistical and security challenges continued to shape dry bulk markets, a marked upturn in grains and oilseeds shipments via the Suez Canal was noted during July, representing the first month-on-month increase since the onset of the Red Sea crisis in October 2023. As Black Sea traders continued to utilize the Canal, volumes were boosted by increased sailings from Ukraine and Russia to Asian destinations amid progressing winter wheat harvests in the region. However, the number of transits retreated again in August.

Transits made via the Panama Canal reached near-normal levels during August, amid improved conditions on the Gatun Lake following earlier rains. Grains and

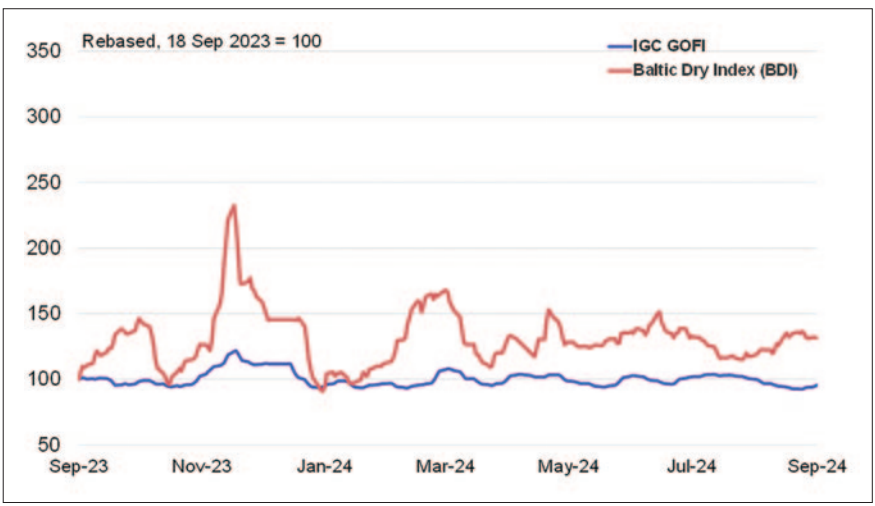
oilseeds shipments for the month were estimated to be broadly in line with the prior season, albeit as bulkers continued to report challenges in booking available slots. In contrast, some key inland waterways elsewhere, such as the Parana River and Amazon Rivers in South America and the Mississippi River in the US, fell to critically low levels amid subdued rainfall, which restricted navigation and cargo movement.

The Panamax sub-Index eased by 4% m/m, with values down by 10% year-on-year. Sentiment remained under pressure for most of the month, notably in the Atlantic, where tonnage was ample amid tepid grains and oilseeds shipments from Brazil and the US, albeit with some improvement noted recently. Moreover, an

easing of restrictions at the Panama Canal helped to shift a portion of dry bulk demand into smaller Supramax vessels, which were reportedly able to traverse the Canal's older locks whilst fully laden. Panamax rates in the Pacific found some support from consistent coal requirements from Indonesia.

The Supramax sector fared relatively better, finishing just 2% down from mid-August, as weak demand in Europe and the Mediterranean was partly offset by rising activity at the US Gulf, including for grains. Handysize rates also retreated, down by 7% m/m, led by a decline in South America, amid a subdued level of enquiries.

*Peter Clubb, market Analyst,
International Grains Council.*



Trend of Baltic Dry Index and IGC GOFI (Grains and Oilseeds Freight Index)
Sources: IGC, Baltic Exchange.



Suez Canal.

European importers' coal appetite fades

*Coal handling
with a grab from
Nemag.*



Richard Scott, Bulk Shipping Analysis

Coal imports into Europe dropped sharply in the past year and look set to diminish again during 2024. After the pandemic-induced downturn four years ago a recovery began in the next twelve months and was then boosted by the effects of the energy crisis caused by the war in Ukraine. Consequently 2022 imports surged but the benefits proved temporary, and last year's total was greatly reduced. A continuing downwards trend seems predictable.

Annual volumes into Europe remain a sizeable part of the world coal market, however. Numerous mainly long-haul cargoes to destinations around Europe are carried by bulk carriers of varying capacities. Related activity discharging cargoes is a feature at many bulk commodity handling ports throughout the region, both in northern European countries and in the Mediterranean area.

Imports into the European Union plus United Kingdom in 2023 were a prominent

but diminishing element of global seaborne coal trade. Steam coal, used mainly in power stations, formed the largest proportion received, about three-fifths of the regional volume. Coking coal for steel industry use comprised the remaining two-fifths. Negative influences emerging last year were mainly evident in the steam coal category, reflecting the energy crisis receding accompanied by the persisting shift towards alternative cleaner energy sources especially renewables.

Among individual importing countries Germany is by far the biggest, forming over one-third of the volume, as shown in the table. The Netherlands is the next largest albeit with only a one-tenth share, followed by Italy and France. One common explanation for diminishing annual volumes is the continuing trend of coal-fired power station closures that started many years ago, causing reduced consumption and imports.

USAGE DRIVERS

Europe's coal demand and imports reflect broad macro-economic trends shaping energy usage, although that influence is not usually the most noticeable factor determining volumes. Regional and national government environmental and energy policy pressures are often more prominent. The European economy's performance has been sluggish in the past couple of years.

According to the latest outlook for the world economy published by the OECD organization in late September, gross domestic product growth in the eurozone group of countries was a minimal 0.5% in 2023 after achieving a brisk 3.4% in the previous twelve months. Moreover, this year may see only a slight improvement to a 0.7% growth rate and in 2025 a low 1.3% is forecast, emphasizing how much activity is being depressed by restrained spending trends.

EUROPE'S SEABORNE COAL IMPORTS (MILLION TONNES)

	2019	2020	2021	2022	2023	2024*
France	9.8	6.8	7.5	7.6	6.0	4.5
Germany	40.2	29.2	37.4	40.9	29.3	24.0
Italy	10.6	7.6	8.4	12.0	7.2	4.0
Netherlands	10.9	4.2	9.3	11.6	8.4	7.5
Spain#	6.6	1.9	3.3	7.7	4.4	2.0
Other EU+UK	31.0	20.0	24.2	41.7	28.8	23.0
Total EU+UK	109.1	69.7	90.1	121.5	84.1	65.0
% change		-38.6	29.3	34.9	-30.8	-22.7

* forecast #steam coal
source: Clarksons Research, Bulk Shipping Analysis, September 2024

After reviving from the adverse impact of the pandemic, headwinds emerged as higher interest rates were imposed amid soaring energy prices and accelerating inflation. Economic activity slowed sharply, weakening the demand for energy and affecting coal consumption. The subdued OECD forecasts for GDP growth reflect the ongoing restraint of higher albeit falling interest rates, amid falling inflation, and the difficulty of returning growth to a more robust trajectory.

In the recent report OECD economists suggest that the eurozone's GDP growth could "benefit from policy rate reductions and the further recovery in real incomes" over the period through 2025. But the modest acceleration to a pace remaining low that is envisaged seems to be a tentative expectation, and probably will not have a noticeable impact on demand for energy.

Patterns of coal consumption will depend upon how the main consuming sectors — power stations and steel mills — progress. Output trends in these sectors are likely to be curbed by the continuing subdued economic activity. Assuming that recent improvements in the region's overall energy supplies are maintained, coal usage and imports especially of steam coal grades could be further restricted in the period ahead.

IMPORTER CHANGES

Imports of coal into the European Union plus United Kingdom (EU+UK) plummeted during 2023, almost completely reversing the previous year's expansion. All the principal importing countries recorded declines in the past twelve months. Based on available data for the trend so far this year and signs of volumes in future months, the current pattern suggests that in 2024 as

a whole further annual reductions will be experienced in most countries.

Coal imported by sea into the EU+UK in 2023 totalled 84mt (million tonnes), a fall of 37mt or 31% compared with the previous year's 122mt, based on Clarksons Research data and Bulk Shipping Analysis calculations, summarized in the table above. An especially large reduction was seen in Germany, contributing a third of the regional downturn. The regional decline followed a 31mt (35%) increase in 2022.

Within the coking coal segment European imports increased by 9% to about 36mt in 2022, before falling by 9% to 33mt last year. In the larger steam coal component a 50% increase to 85mt in 2022 was followed by a 40% fall to 51mt in 2023. Coking coal is an essential ingredient used in the production of steel by the blast furnace/pig iron process. Steam coal, especially the volumes used by power

*Transshipment operations
using a floating crane and a
Nemag grab.*



stations, can be substituted in the electricity generating sector by other fuels or replaced by renewable power generation.

At 6% of the world total last year, EU+UK imports are far below the much larger proportion of global seaborne coal trade seen several years ago when the proportion was 12%. Moreover European environmental policies eliminating coal consumption are likely to ensure that the earlier proportion of global trade is not regained.

Germany is still the largest European coal buyer, even though its annual volume is below the levels 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 29.3mt total — 11.6mt or 28% lower than seen in the preceding twelve months — saw Germany retaining the biggest percentage share of the overall European volume, at 35%.

Other importers also experienced large reductions in 2023, compared with the previous year. Spain's steam coal imports were 43% down at 4.4mt, while Italy's steam and coking coal total fell by 40% to 7.2mt. In the Netherlands a 28% decline in overall imports to 8.4mt was recorded, accompanied by a 21% fall in France to 6.0mt, as shown by the table. A category in the table labelled 'other EU+UK' coal imports saw a decline of 30% last year to 29mt. UK imports were down to below 3mt, a 66% annual fall.

In a country adjacent to the European area, Turkey, sometimes included in regional import totals, the trend was in the opposite direction to that seen elsewhere. Turkey is a significant coal importer, receiving large annual volumes in recent years. The 2023 total exceeded 25mt, 10% above the previous year's volume and regaining a similar level to that seen in earlier periods. Steam coal mainly for power station use is the chief component, comprising four-fifths.

MARKET INFLUENCES

An extensive programme of coal-fired power station closures was one of the main trends adversely affecting coal usage and imports, in numerous European countries during recent years. Many plants were shut down or idled, or their capacity utilization declined. 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.

A rapid shift towards alternative energy sources accompanied this trend. In particular, increasing availability of renewable energy supplies, especially wind-turbine generated electricity, was a prominent feature. In the 2021–2022 period, influences on coal consumption were temporarily disrupted and modified by European energy market changes. These changes were caused by an economic recovery from the pandemic's recession, and then by the crisis for energy supplies resulting when gas imports from Russia were drastically reduced. Amid improved energy supplies in 2023, the underlying negative influences on coal requirements were reasserted, weakening import purchases.

Variations in domestic coal production volumes within Europe, and effects on overall market supplies, are another influence, but now have only a limited impact on import demand because this domestic output is relatively small. Closures of uneconomic mines have been seen 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.

Based on Euracoal figures, in 2023

Germany produced 102mt of lignite while hard coal output since 2018 has been nil. Poland's production last year was 40mt lignite plus 48mt hard coal. There was also under 1mt of UK hard coal output from remaining small mines. Among other EU importing countries domestic hard coal production was insignificant.

Changes in the coal consumption trend have become the main influence affecting European countries' purchases on the international market, as a result of the diminished influence of domestic coal output within Europe. In addition to the two principal industries still using coal — steel production and electricity generation — cement and other industries are consumers.

In the past few years steel mills' use of, and import demand for, coking coal remained fairly stable after recovering from a downturn during the pandemic. Imported volumes weakened last year amid lower steel output across the European region. In the much bigger steam coal segment, disruptive influences in recent years had a huge impact. Energy market changes affecting coal consumption reflected both economic and political drivers as already mentioned. Lower

HAMBURG YOUR ALL PURPOSE PORT

global
transPORT
solutions

portofhamburg.com
info@portofhamburg.com
@portofhamburg





energy use when the pandemic occurred was followed by a revival, while the subsequent gas shortages supported coal usage temporarily until the downwards pressures resumed as the dominant factor.

According to Energy Institute calculations, in 2023 Europe's electricity generation from coal contributed 14% of all electricity generated, lower than the previous year's 17% and well below the proportion recorded in earlier years. Meanwhile renewables generation from wind, solar, hydro and biofuels has risen strongly. These statistics emphasize the restraints on coal use in power stations and underline the direction of the trend.

The principle shares of Europe's electricity generation in 2023 comprised renewables — wind and solar power — (30%), and nuclear (19%). The remainder was comprised mostly of gas (17%), hydro-electric (17%) and coal (14%). But the renewables contribution is subject to considerable short-term variations because of its dependence upon often unpredictable weather, while hydro-power also can be affected by weather variations. However, 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.

POLICY IMPERATIVES

Promoting cleaner energy resources and reducing air pollution within the European Union is a long-established priority for environmental policy. Decarbonizing

energy-consuming activities is a central aim contributing to cutting greenhouse gas emissions. Coal-fired power stations, especially large-scale plants, many of which have been phased-out, were one major focus for the strategy. Intensive development of renewable energy — with wind power generation becoming a feature — has been evident in recent years.

Volumes of coal used have 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. Other aspects such as energy security and industrial competitiveness also are being given more attention. The unfavourable impact that uncertain or disrupted energy supplies and prices have on economic activity has been clearly seen in the past few years.

Although coal continues to be part of the 'baseload' reliable generation capacity still needed in a number of European countries, its role has diminished greatly. 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 probably will ensure a declining steam coal market in the years ahead.

Ceasing power generation from coal by set dates during the period up to the end of the present decade is part of plans previously revealed by European countries.

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 at the end of last month.

Assisting this process is 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. Nevertheless, while the transition provides clear benefits, switching to other energy sources on the scale required to replace all coal-fired capacity is a substantial 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.

A significant additional policy influence implemented over two years ago in August 2022 was the European Union's ban on coal imports from Russia, in response to the invasion of Ukraine, as part of the EU's 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.

CONTINUED WEAKNESS

Ample energy availability in Europe seems to have been largely restored, although

there is still some uncertainty about short-term gas supplies during the approaching winter months — when demand increases — into early 2025. Shortages are limited by subdued economic activity, reflected in energy consumed by the main users, which seems unlikely to accelerate rapidly in the near future despite a boost from a falling interest rates trend. Demand for the products of coal-consuming industries — electricity generation and steel production in particular — could remain restrained in the period ahead.

The International Energy Agency, in a recent (July) update on the global coal market, suggested that the downtrend in Europe's overall demand for coal is likely to persist. After falling by 22.5% in 2023, IEA analysts expect EU coal demand to decline by a further 19% in 2024, "mostly driven by the electricity sector, where the expansion of renewables continues while demand remains relatively weak". The combined reduction of almost a quarter over two years emphasizes the shrinkage under way in the European coal market.

As a result of this negative pattern a decrease in European coal imports seems likely this year. The 2024 annual seaborne coal volume imported by the EU+UK area could be down by about a fifth from last



year, as shown in the table, to under 70mt, based on Bulk Shipping Analysis calculations. In the coking coal imports segment signs of weakness are somewhat less obvious, suggesting that the total may not weaken at such a rapid rate. The reduction is expected to be concentrated in the steam coal segment — especially in the power generation market — where a fall of around a third could occur.

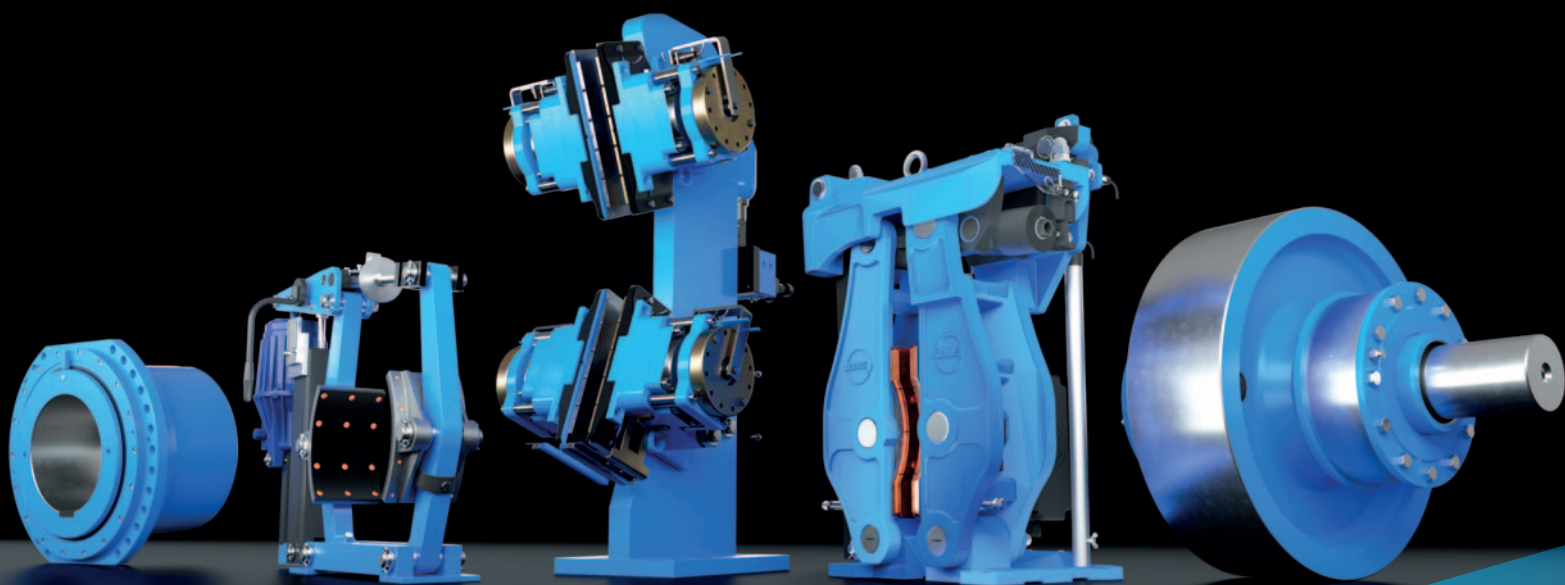
Looking at the prospects for Europe's coal imports in 2025 and beyond, precise calculations are largely speculative, because of a variety of uncertainties surrounding energy market trends and the significance of coal. However, even when assumptions of improving economic growth and energy

consumption are incorporated, other influences on coal use suggest that downwards pressure on imports can be expected to persist.

During an extended period ahead of more than two decades, when limiting and largely eliminating greenhouse gas emissions remains a global target, environmental pressures are set to intensify. Energy-consuming major industries such as power generation and steel production are focusing on decarbonizing their activities, so coal demand is likely to be adversely affected. The consequences for Europe's coal imports are clear, although the timing and magnitude of reductions is less predictable.

DC

SIBRE - the world of industrial brakes



Brakes, Couplings and Components

info@sibre.de | www.sibre.de

SIBRE Siegerland Bremsen GmbH | Auf der Stütcke 1 - 5 | 35708 Haiger - (Germany)

SIBRE
Sure to be Safe

Vive la différence: comparing Epoxy Coating against



'HANNES OLDENDORFF' – EPOXY COATING

New Building 2017

Jiangsu New Hantong Ship Heavy Industry Co. Ltd, Tongzhou, China.

Approximately 70% of the old epoxy coating had to be removed by high-pressure jetting, then the whole area was recoated after 3.2 years.

TANK TOPS

Pit corrosion already beginning after three years.

CONCLUSION

After only 3.2 years — enormous effort and expense.

Attacks on ships in Ukraine threaten 1% of dry bulk market

In a recent edition of BIMCO's 'Shipping Number of the Week', Shipping Analyst at BIMCO, Filipe Gouveia, looks at the recent attacks on merchant ships in Ukrainian ports and waters and the effect it could have on exports.

"Since September 2024, five merchant ships have been hit by Russian missiles while in Ukrainian ports or waters. These were the first attacks on merchant ships since November 2023 and they could threaten 1% of the world's dry bulk exports if safety is not improved. The price of war risk insurance has already increased but the impact on exported volumes has so far been limited," says Gouveia.

Throughout 2024 Ukraine has been

exporting dry bulk cargoes from its ports in greater Odesa via a corridor close to its coast. The corridor has replaced a UN brokered agreement allowing the export of grains and other food products, which ended in July 2023.

During the first ten months of 2024, dry bulk shipments out of Ukraine were three times higher than a year earlier. The new corridor has allowed for an increase in grain shipments and for shipments of iron ore to resume. Despite the improvement, shipments are still 27% lower than pre-war levels.

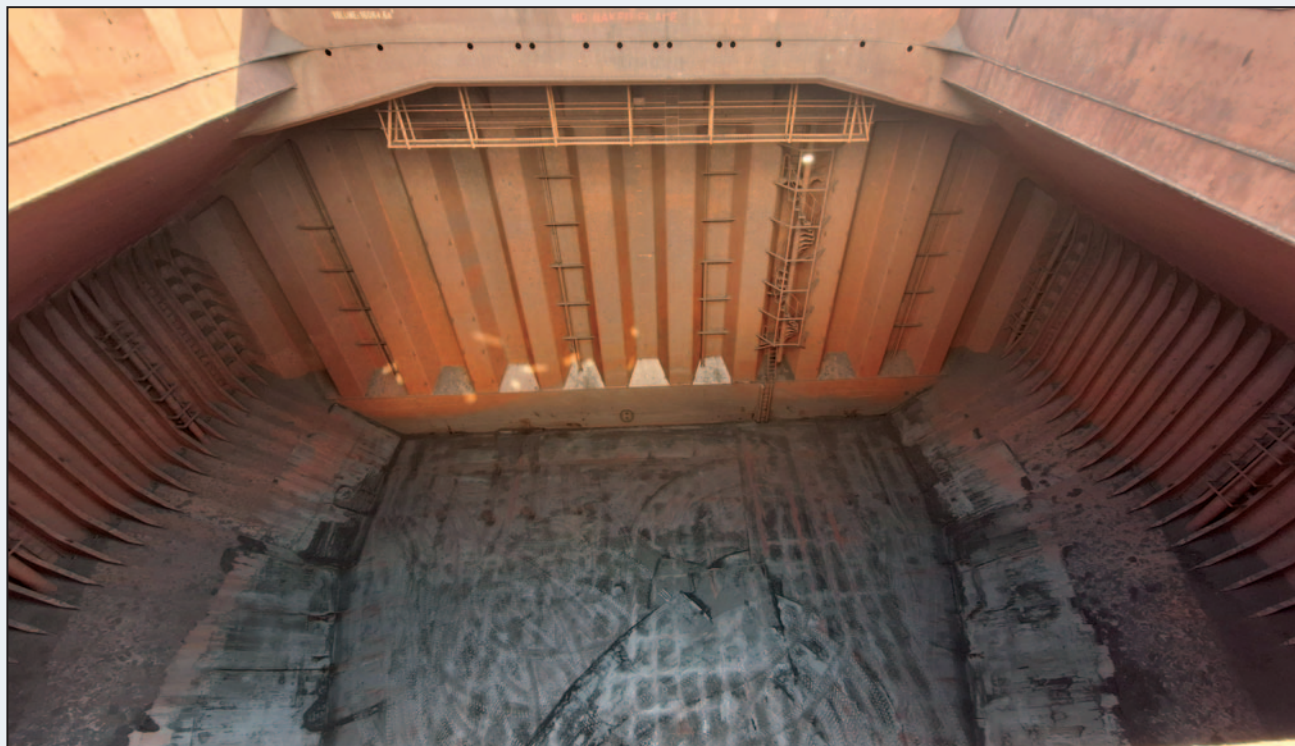
The coastal corridor has been crucial in ensuring low global food prices. It has supported a 15% year-on-year decrease in

the FAO cereal price index so far in 2024. Ukraine is a large grain exporter accounting for 7% of global seaborne grain exports. It is also the fourth largest maize exporter, and its wheat exports are significant.

"If Ukraine's seaborne exports were disrupted again, as they were during the start of the war, it would not only affect food prices, but also the dry bulk market. While the world's reliance on Ukrainian grains has decreased, replacing its volumes would still be challenging. There are only three large maize exporters globally and the global wheat supply is strained," says Gouveia.

The Panamax and Handysize ship

Steelpaint's Polyurethane Zincing



'ALFRED OLDENDORFF' – SP-POLYURETHANE-ZINCING

New Building 2015

Jiangsu New Yangzijiang Shipbuilding Co. Ltd., Jingjiang, China.

After HP-jetting the cargo hold bulkheads only 10% of the total areas had to be recoated. 90% were in perfect condition after 9.5 years of operation and did not require any treatment.

TANK TOPS

Approximately 70% of the zinc surface was still in very good condition and was still providing cathodic protection of the whole surface. After a high-pressure wash, the tank tops were recoated to prevent pit corrosion.

CONCLUSION

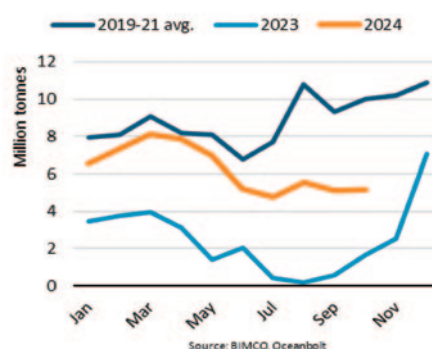
Only after 9.5 years were repairs required. Considerable savings in maintenance costs.

segments transport two thirds of Ukrainian cargoes and as such would be most affected by disruptions. Handysize ships mainly transport cargo to ports in the Mediterranean, while Panamax ships are preferred for shipments to Asia. Most Ukrainian cargoes transported by Panamax, Handysize and Supramax ships are grains.

Capesize ships would be negatively affected by any disruption, but to a lesser extent. They mainly transport iron ore which could easily be replaced by Australia or Brazil. Nonetheless, they could see a small decrease in demand due to shorter sailing distances to China.

"Regardless of the safety conditions for merchant ships, Ukraine's dry bulk exports will likely fall in 2025. The ongoing maize harvest is expected to lead to a 19% year-on-year decrease in yields, weakening exports. This will contribute to an expected stagnation in global grain shipments in 2025," says Gouveia.

Ukraine's seaborne dry bulk exports



DSM Shipbrokers

Lemniscate cranes for bulk transshipments
new and used.

- floating bulk handling cranes
- new floating lemniscate cranes

High output at low costs, built for proven
long lifecycle and 24/7/365 operations.

WWW.SHIPTRADE.NL

NETHERLANDS



New loss prevention tool helps ships navigate heavy weather

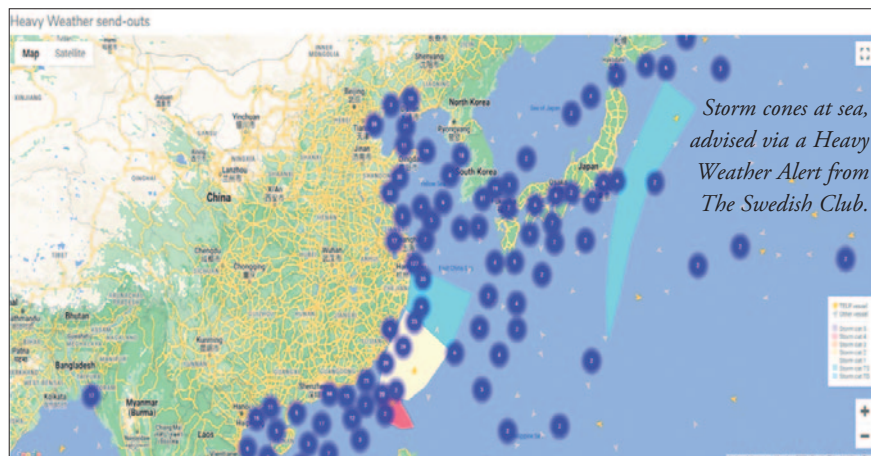
Extreme weather incidents are increasing across the globe and the impact on cargo ships is evident. Maritime insurance specialist The Swedish Club reports that it registered claims exceeding US\$25 million attributable to heavy weather over the past five years.

In response, The Swedish Club has developed a Heavy Weather Alert tool as an addition to its leading loss prevention tool Trade Enabling Loss Prevention (TELP).

Heavy weather can cause structural damage, shifted cargo, broken mooring lines, wet damage, lost cargo overboard, and more. The Club says it has also seen examples where vessels have failed to suspend cargo operations and depart port in a timely manner when severe weather is approaching, resulting in major losses and claims. This is despite the fact that most vessels today have access to high quality weather reporting and weather routing.

The Swedish Club's innovative Heavy Weather Alert provides timely loss prevention advice to insured vessels operating in proximity to severe weather patterns. Based on a vessel's position, in combination with up-to-date weather information and real-time data, the Heavy Weather Alert system automatically generates a customized loss prevention alert, with hands-on advice, when severe weather conditions are detected near a vessel's position — thereby helping to mitigate potential risks and ensuring the safety of both crew and cargo.

The service has been fully developed in-



house by The Swedish Club's Loss Prevention and IT departments, reflecting the Club's commitment to delivering cutting-edge solutions that support its members in navigating the complexities of maritime operations.

Peter Stålberg, Senior Technical Advisor, commented: "Over the past five years The Swedish Club has registered claims exceeding US\$25 five million attributable to heavy weather. Any measures we can take to reduce this figure will contribute positively towards our members' operations and insurance records."

The Swedish Club's TELP service combines latest technology with its years of claims experience and expertise, including information from external sources, to help vessels safely chart their way through high-risk areas around the globe. By tracking its insured vessels' AIS signals, the Club is able to identify vessels bound for an area of particular risk and

provide them with timely and tailored loss prevention advice relevant to that destination. TELP sends out the advice a few days prior to the vessel's arrival, or when severe weather is approaching, enabling the crew to plan.

In addition to navigational risks or weather patterns, TELP can advise shipowners and captains of problems with bunkers, pilots or towage, or known issues with unfounded claims or dubious charges etc. With many thousands of ports and waterways to navigate, often varying from voyage to voyage, it's not easy for a Master to be aware of all potential high-risk areas. TELP can issue a warning if any of these 'hotspots' could be encountered during what should be an uneventful journey.

Current TELP subscribers will be automatically enrolled in the Heavy Weather Alert service as it is rolled out, ensuring they benefit from this addition without any additional steps required.

Panamax bulk carrier transits of Panama Canal down by 35%

A new booking system introduced for ships transiting the New Panama Canal could potentially disadvantage bulk carriers, which are already suffering because of drought restrictions now in place in Latin America.

Last July was significant in that the Panama Canal Authority permitted just 18 vessel transits daily due to lower than expected rainfall. This compares to a maximum of 36 under optimum operating conditions. As a result, some bulk carriers are now being forced to either sail via the Suez Canal or even around the Cape of Good Hope to access markets in China. This adds at least 13.5 days and sometimes as many as 17.5 days, compared to using the Panama Canal.

Bulk carriers suffer anyway, since the Canal gives preference to container ships, but in July, just 129 Panamax bulk vessels transited, which was down 35% compared to July 2022. The situation did improve in August, thanks to heavy rainfall boosting water levels in Lake Gatun just in time for the US grain harvest, which started in September.

Barry Cross



Photo: courtesy of The Panama Canal.

BERG Propulsion OpWind® to optimize operations for sail and engine combustion

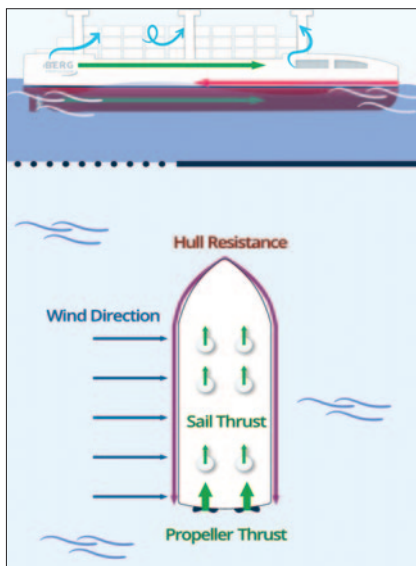
Automatic system monitors input from wind propulsion to ensure fuel savings are maximized by making most efficient use of propeller speed and blade angle

BERG Propulsion has unveiled the OpWind® software system to help crews combine the operation of sails and propellers in the most efficient way in all sea conditions.

OpWind automatically ensures that engine efficiency can be optimized with respect to propeller rpm and blade pitch angle when wind propulsion is also used to propel a vessel. The approach saves even more fuel than would otherwise be the case.

The system automatically senses any sail contribution to propulsion based on a vessel's operation data and measured parameters, continuously and automatically adjusting propeller pitch and speed to maximize the efficiency of the combined operation of propeller and sails.

The BERG Propulsion OpWind system has been developed from the Swedish company's existing Dynamic Drive technology to compare detailed theoretical information and calculations about



operating with propellers and sails against measured values on-board the vessel, said Chief Technology Officer Emil Cerdier.

"OpWind is a more advanced system than Dynamic Drive and can be implemented on any ocean-going vessel fitted with any type of sails to identify optimal operating actions," said Cerdier.

"Savings from reduced fuel consumption

will depend on the vessel configuration and its operating profile, as well as on how large the sails are, but they will be considerable," he added. "Efficiency gains will be available whether it is a newbuilding or retrofit project."

The system can be run in several modes with settings either to keep a desired maximum speed, maximum fuel consumption or a constant propeller thrust. It is also possible to use the propeller for onboard power generation while in sailing mode.

BERG can also provide a Marine Information Display to visualize performance as part of the system. A constant vessel speed setting will automatically reduce engine propulsion power when sails contribute to forward thrust. With a feathering propeller design it is also possible to shut down one or two main engines depending on vessel configuration, to further reduce fuel and maintenance costs.

BERG Propulsion has received an initial order for systems to be used in sail/engine combined operation from a major vessel operator.



NavFleet

Total ship operations platform

Reduce costs, improve insights, enhance safety and minimise emissions. NavFleet creates a modern, digital ecosystem that allows collaboration by multiple stakeholders and helps improve the efficiency of operations and fleet performance.



NSU to install rotor sails to Valemax VLOC

NS United Kaiun Kaisha, Ltd. (NSU) and Vale International SA have reached an agreement to install rotor sails (H:35m x D:5m x 5 units) manufactured by Anemoi Marine Technologies Ltd. on 400,000dwt-type VLOC (very large ore carrier), *NSU TUBARAO*, which has been engaged in a long-term transportation contract between NSU and Vale since its delivery in September 2020. The installation of the rotor sails on the ship is scheduled around September 2025.

A rotor sail is a device to obtain propulsion by using the pressure difference generated around a cylinder by rotating a cylindrical sail installed on the deck. It is expected to reduce fuel consumption and CO₂ emissions from the ship by approximately 6–12%.

NSU has been actively working to make its vessels more efficient and reduce its greenhouse gas (GHG) emissions through the introduction of energy-saving devices such as rotor sails and by transitioning to ships powered by next-generation fuels.

Vale is committed to supporting the maritime industry in achieving the International Maritime Organization's (IMO) decarbonization targets. Aligned with the ambition of the Paris Agreement, Vale also has a target of a 15% reduction in scope 3 emissions by 2035, related to the value chain, of which shipping emissions are part, since the ships are not owned by the company. Focused on adopting and leveraging technologies and fleet modernization to reduce GHG emissions, Vale created the EcoShipping program, a R&D initiative based on a strong partnership with shipowners. Since 2018, the company has been operating second-generation Valemaxes (capacity of 400,000 tonnes) and, since 2019, Guaibamaxes (capacity of 325,000 tonnes) — these vessels are among the most efficient in the world. As part of the EcoShipping programme, Vale developed innovative energy-efficient projects, such as the rotor sails project, and a pioneering project to incorporate multi-fuel tanks on iron ore carriers.

Anemoi is a major provider of rotor sails to the shipping industry. Its energy-saving technology offers significant reductions in fuel consumption and lowers CO₂, SO_x and NO_x emissions to deliver more efficient ships.

VESSEL DETAILS

Name:	NSU TUBARAO
Dimensions:	LOA 361.0m x beam 65m x depth 30.2m x draught 23.0 m
Deadweight:	399,717 metric tonnes
Gross tonnage:	197,453



When shore-based systems miss the mark

geared bulkers, floating cranes, transshipment and offshore stevedoring



Jay Venter

From challenge to conquest: SMT Shipping's journey to a 25% productivity boost using the NemaX grab

Nemag's customer, SMT Shipping, has achieved significant transshipment advancements, particularly in West Africa on the TSV (transshipment vessel) *Conakry Pearl*. This region presents a unique challenge due to its shallow shores,

extending 10 to 20 metres in depth for up to ten miles. To be profitable, operators have to ship their cargoes using colossal ore carriers. These Capesize vessels can export up to 200,000 tonnes.

However, these fully loaded enormous

vessels, 18 metres in depth, cannot approach the shore. The traditional solutions, like constructing extensive jetties or dredging long channels, are economically unviable. This is where SMT Shipping's expertise comes into play.

The company owns and operates vessels with a unique combination of high-loading capacities and shallow draughts. "This allows us to transport a significant amount of cargo from the terminal, usually located in a river in West Africa, to the open sea. We then use large cranes to transfer the cargo to Capesize vessels, also known as Newcastlemax bulk carriers. For rapid and voluminous transfers, a highly efficient grab is essential", explains Marc Smeets, Technical Project Manager at SMT Shipping.

With revenue calculated per tonne, the challenge is clear: "We need to optimize the continuous cargo transfer process to maximize our profit."

SMT stands for innovation and integrity globally, with a 1,700-strong global workforce and offices in Poland, Cyprus, the US, the UK, and the Netherlands. Smeets has been working with the company as a Technical Project Manager for six years, and he's now working on a transshipping project in Sierra Leone.

This global maritime group of companies is involved in the shipping and transshipment of dry bulk cargo. Over the years of expansion, it has entered into joint ventures, acquiring vessels to optimize its customers' cargo operations and adding new ships to its approximately 62-vessel fleet.

SMT has four service divisions:

- ❖ bulk carriers and general cargo carriers
- ❖ transshipment
- ❖ cement carriers
- ❖ multi-purpose carriers

Renowned for transporting dry bulk from all kinds of ore and grain to scrap and salt, SMT has built its reputation as a trusted tonnage provider and business partner in the dry bulk market. Its cargo clients include mines, raw material end-

users, traders, importers and exporters.

Originally, SMT's vessels in West Africa transferred bauxite. When the bauxite market collapsed, SMT was compelled to shift to iron ore transfer for a client in Sierra Leone. This transition posed challenges due to the differing specific gravities of bauxite and iron ore.

Bauxite is lighter than iron ore, respectively around 1.6 versus 2.5 tonnes per cubic metre. Therefore, each material asks for a unique type of grab that maximizes efficiency without compromising the safety and integrity of the crane system.

Although SMT purchased a specialized bauxite scissors grab from Nema, the differing weight characteristics of iron ore presented issues with crane overloading, impacting the time of each unloading cycle — a vital factor in its revenue model calculated on a per-tonne basis.

THE CHALLENGE: THE SEARCH FOR THE OPTIMAL CRANE AND GRAB COMBINATION

Smeets explains that SMT now had three different grabs at its disposal. None of them was ideally suited for the specific characteristics of the iron ore they were now transferring. "We had one too-small clamshell grab, a too-big bauxite clamshell grab, and the big bauxite scissor grab from Nema."

It sounds like a luxurious position to have three grabs available. "Our technical management wasn't so eager because we already had three expensive grabs on board. But I was fully convinced that we needed a new grab, since they all didn't enable optimal productivity".

"Martine, account manager at Nema, already told us about the NemaX grab. So we returned to Nema, where she shared a pretty promising presentation. We could also see and experience the

NemaX in operation at a steel manufacturer in IJmuiden near Nema.

This live demonstration was very convenient and showed first-hand how satisfied everybody was.

In addition, she calculated and presented data comparing the cycle times of various grabs, revealing that the NemaX showed a remarkable productivity improvement of 14% and 19% compared to the clamshell and scissors grabs with similar specifications.

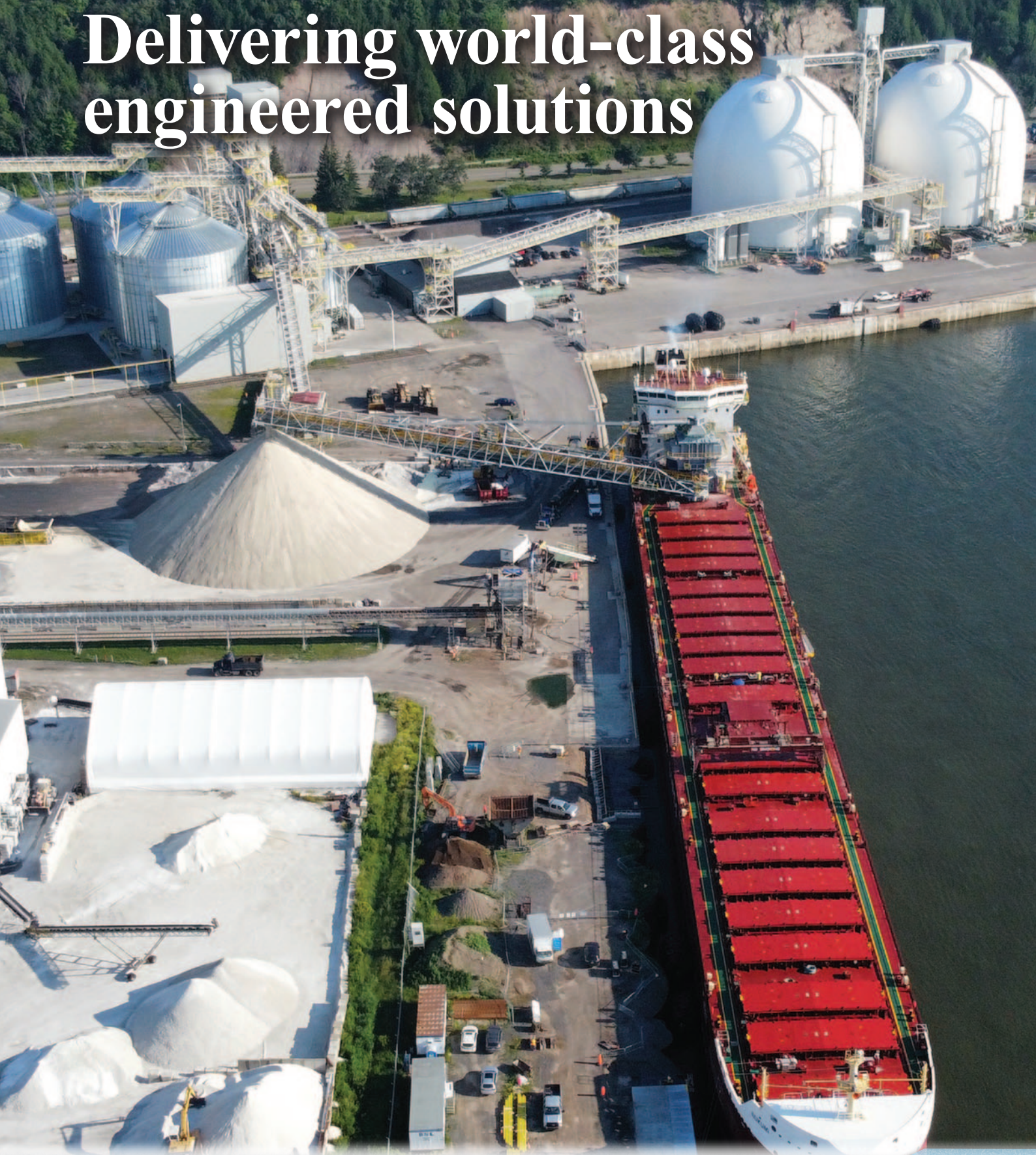
This gave us valuable insights into the performance difference and a clearer view of the total cost of ownership. These numbers also convinced the commercial manager to give this investment a try."

The NemaX grab in operation.



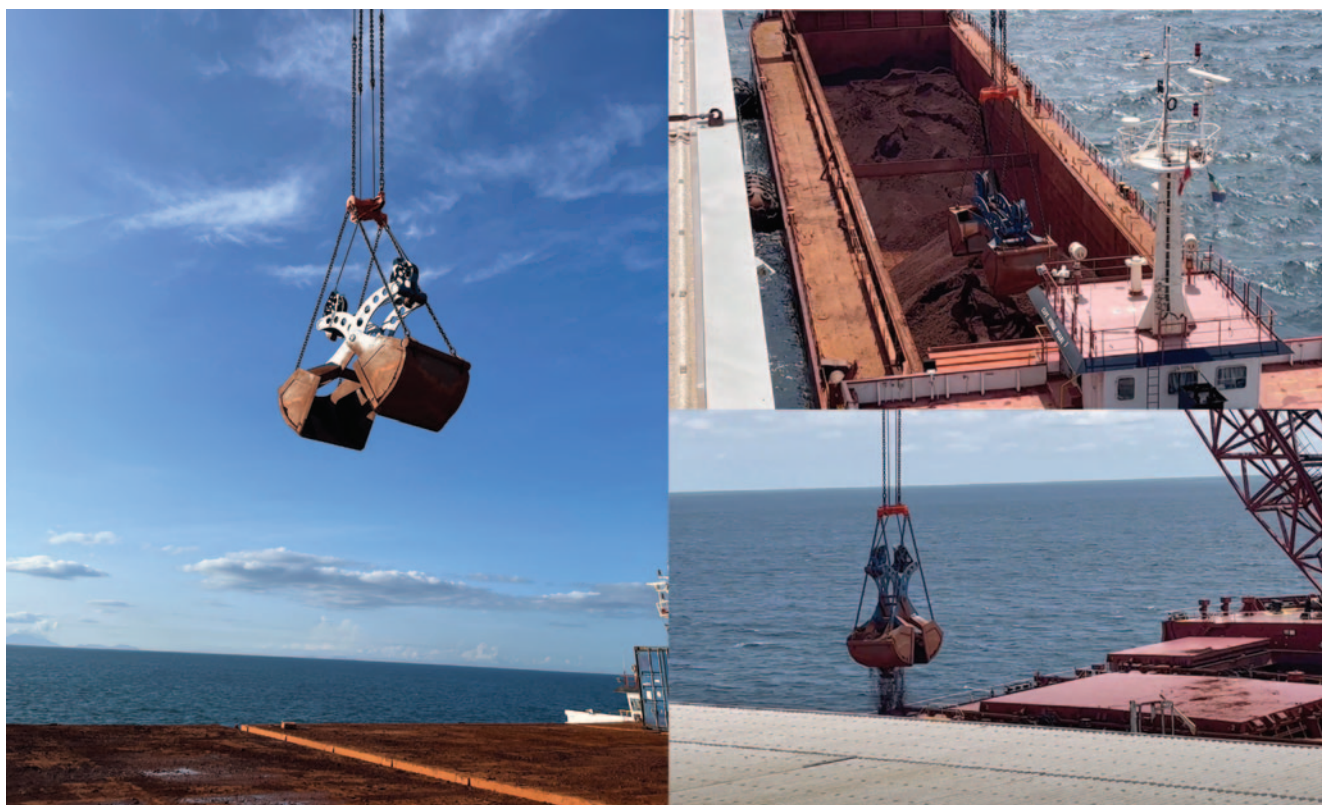
An excellent decision: "This NemaX grab paid itself back more than four times in its first year."

Delivering world-class engineered solutions



TRANSFORMING
Engineering
INTO
Productivity

www.ems-tech.net



THE SOLUTION: ENABLING A HIGHER EFFICIENCY RATE WITH THE NEMA^X GRAB

Facing a challenge with its grab selection for iron ore transshipment, SMT Shipping began exploring the best possible grab solution.

The group had already experienced Nemag's craftsmanship with its scissors grab purchase. The NemaX grab stood out because of its efficiency. Traditional clamshell grabs require a significant amount of wire to be pulled in and out, taking valuable time with each cycle. In contrast, the NemaX grab uses a fraction of the wire length compared to standard grabs.

In the case of SMT's small clamshell grab, the wire length is 13 metres compared to the 8.7 metres of the NemaX grab. "Saving seconds on each cycle doesn't seem much until you calculate the impact on an annual basis."

Although the productivity looked promising, Smeets still had to convince his boss. "Our owner always thought Nemag was a bit like the Mercedes or Ferrari of grab builders — the highest quality but overpriced when you only need to get from A to B.

He later discovered that the price difference between Nemag and its major competitors wasn't significant. This ended his long-standing perception when he learned that Nemag's prices are reasonably in line with the market.

"High-skilled operators combined with the technical advantage of NemaX meant our overall efficiency would significantly

improve. Recognizing the potential of the NemaX grab, as it is also co-developed with Delft University of Technology, we decided to invest in it."

On comparing its productivity with other grabs in the Sierra Leone use case, NemaX emerged superior due to its speed. Thus reaffirmed the notion: faster transfer times result in higher profits.

THE RESULTS: A 25% INCREASE IN PRODUCTIVITY, THREE MONTHS ROI AND EASIER MAINTENANCE

Following the integration of the NemaX grab into SMT Shipping's operations, the company witnessed a remarkable surge in productivity.

The crew had to get used to the new grab in the first weeks. However, after their first month, the handling rate went from 1,000tph (tonnes per hour) to 1,250tph. The NemaX Grab boosted productivity by 25% compared to the previous Nemag scissor grab, which wasn't optimally suited for iron ore.

The right grab for the right job in this continuous transshipment process was an excellent decision — despite the other three available grabs at the ship. The stark improvement in performance resulted in an exceptional return on investment period of less than three months.

Furthermore, the NemaX grab demonstrated superior safety and maintenance features. Breakdowns are annoying, tedious, and expensive if you're on a ship in West Africa. With fewer

moving parts than the traditional clamshell grab, Smeets experienced zero breakdowns after transferring 6mt (million tonnes) in the first year.

Maintenance was also more straightforward. Technicians needed to climb up to service a clamshell grab, but the NemaX's design allows for easy access from the ground. The grab eliminates the risks associated with working at heights, especially on a moving vessel at open sea. It wasn't just safer to conduct maintenance. Unlike a clamshell grab with eight sheaves and eight hinges, the NemaX grab only has two sheaves and one hinge. Fewer moving parts and easier access contribute to faster and more efficient maintenance processes.

So, in addition to the productivity increase, the grab is also safer, easier and faster to maintain.

FUTURE PLANS: THE NEXT STEPS

After seeing the success of the NemaX grab, SMT was eager to keep improving. If you continuously rotate a 180° cycle in the open sea, it results in some accidental sideways collisions now and then. The skilled crew of mainly Polish workers welded some modifications. These enhanced the grab's strength without any downtime of the grab leaving the vessel.

Another challenge for SMT is West Africa's seasonal climate. The wet season, stretching from May to October, alters the iron ore's properties and affects the grabs' penetration ability.

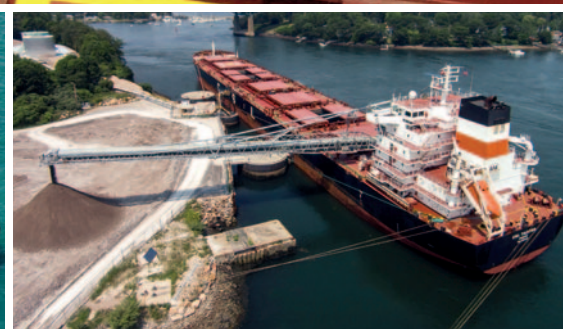
The rain in the wet season makes iron

DELIVERING **ADVANCED SHIPPING** AND **HANDLING SOLUTIONS** WORLDWIDE

By combining state-of-the-art cargo-handling technology with over 100 years of operating experience, CSL offers customised solutions that feature the highest standards in operational and energy efficiency, reliability, safety and environmental protection.

 **CSL**

www.cslships.com





ore a bit heavier but also more lubricant and thus easier to penetrate. In the dry season, the ore is harder to penetrate and requires a heavier grab for the best performance. However, a heavier grab designed for dry material underperforms in handling wet ore due to its extra weight. So consistent efficiency levels are a challenge to sustain and usually turn into a compromise.

After the success of the NemaX grab,

Smeets was interested in buying another grab to further increase SMT's productivity. Open to innovation and custom improvements, NemaX also included the custom SMT adjustments in the new grab that is currently being delivered after a successful factory acceptance test.

Additionally, it has a unique feature to add or remove weight in the tubing of the grab. By changing its gravitational force, this hybrid solution can handle both wet and

dry ore well. The second grab allows for more flexibility and functions as a productivity insurance for when the current NemaX grab needs large or unforeseen maintenance.

To conclude, this approach strengthened the partnership between SMT Shipping and NemaX. But it also opened doors for future projects to tackle the unique challenges of open sea operations and ensure optimal performance and durability of grabs.





MOVING FORWARD

We solve our customers' most critical maritime and portside challenges with



Bulk Handling Systems, Technical Components, Engineering & Automation Solutions

Contact:

T: +31 180 440 720

E: info@lionmarinegroup.com

W: www.lionmarinegroup.com

Maritime Milestone: Royal Bodewes builds (and christens) cement carrier for Asian shipping company

Royal Bodewes' 'Asia Cement No. 9' is custom-made to navigate and operate in the diverse terminals of the harbours of Taiwan and all over the world.



The *Asia Cement No. 9*, a 7,828dwt self-discharging cement carrier from Royal Bodewes, was christened in Delfzijl on 9 April 2024.

It is a special ship with a unique story. The contact between the various parties started during the Covid-19 period. A period in which everything had to be done online and many things were just a little different than we were used to. Another interesting fact: the Dutch Royal Bodewes built this ship for the Taiwanese U-Ming Marine Transport Corporation. People often talk — rightly so — about (unfair) competition from Asian countries. The construction of this ship, for an Asian client, shows that the Dutch maritime manufacturing industry has the skills and knowledge to compete. Asian countries influence steel prices and have lower labor costs. As a result, it is rare for a ship to be built in the Netherlands for an Asian client. The ship that was christened in Delfzijl, was 100% built in the Netherlands. Although the ship was built at Bodewes, it is a collaborative project. “We received this assignment through a contact we already had. We have previously worked with the Swedish cement plant supplier Lovik. They put us in touch.” This shows that networking and collaboration are important in all areas. “And not only important,” says Carlijn Bodewes, “it is also

beautiful. It shows that together we can do more than alone. In fact, that we need each other. No one can do something like this alone, all suppliers and parties are needed.” This is not just about cooperation with suppliers, for example. Carlijn explains: “The financial co-operation with Atradius (ECA) also played an important role in realizing the contract.” This is something that the entire sector is currently working hard for. Co-operation contributes to strengthening the international positioning.

As described in the Sector Agenda, cooperation at national and European level is crucial for, among other things, the future sustainability of the Dutch Maritime Manufacturing Sector. The baptism in the harbour of Delfzijl was a party. There were a great many interested parties. For example, the highest representative of Taipei Representative Office in the Netherlands, NMT director Roel de Graaf and cabinet envoy Kees van der Staaij were present. The official baptism was performed by Catharina Martens, after which a drinking dance was performed by the Kung Fu/Wushu association of Bao Trieu and Manlang Tang. This dragon dance was performed to appease the gods. A special detail is that it was the first time for Royal Bodewes to meet the delegation of the customer from Taiwan offline. “The contact started during the corona period.

Everything went via Teams,” explains Martijn Beunk. Although construction supervision has been present for a few months, this was the first time that Bodewes saw the people with whom the contracts were signed.

Soon after the christening in April this year, the *Asia Cement No. 9* departed for Taiwan. Once there, the ship was deployed to sail along the coast full of cement cargo.

In the port, at the airport, or somewhere else: wherever cement is needed, this carrier will sail and unload very efficiently.

PARTICULAR DETAILS OF THE 'ASIA CEMENT NO. 9'

Build number:	778
Year built:	2024
Length over all:	114.99m
Length b.p.p.:	112.29m
Breadth mld.:	15.8m
Depth mld.:	10.7m
Design draught:	6.98m
Deadweight:	7,828 tonne
Tonnage:	5,305GT
Speed:	13.0 knots
Hold capacity:	286,000ft ³
Hybrid:	No
Ice Class:	No
Geared:	No



LD Ports & Logistics

**SHALLOW WATER TRANSPORTATION, TRANSshipment
AND PORT OPERATIONS WORLDWIDE**

**DESIGN OF INNOVATIVE SOLUTIONS TO SOLVE
CHALLENGES BROUGHT BY THE ENERGY TRANSITION**

LOGISTIC ENGINEERING AND SHIPMANAGEMENT

APAC LDPL Ltd Pte 133, Cecil Street #06-01, Keck Seng Tower, 069535 Singapore | contact.me@ldpl.com

EMEA LDPL Middle East Shipping LLC, IBN Battuta Gate Office Dubai UAE | contact.me@ldpl.com

VISIT: www.la.fr

VISIT: www.ldpl.com

FOLLOW US ON LINKEDIN: LDPL

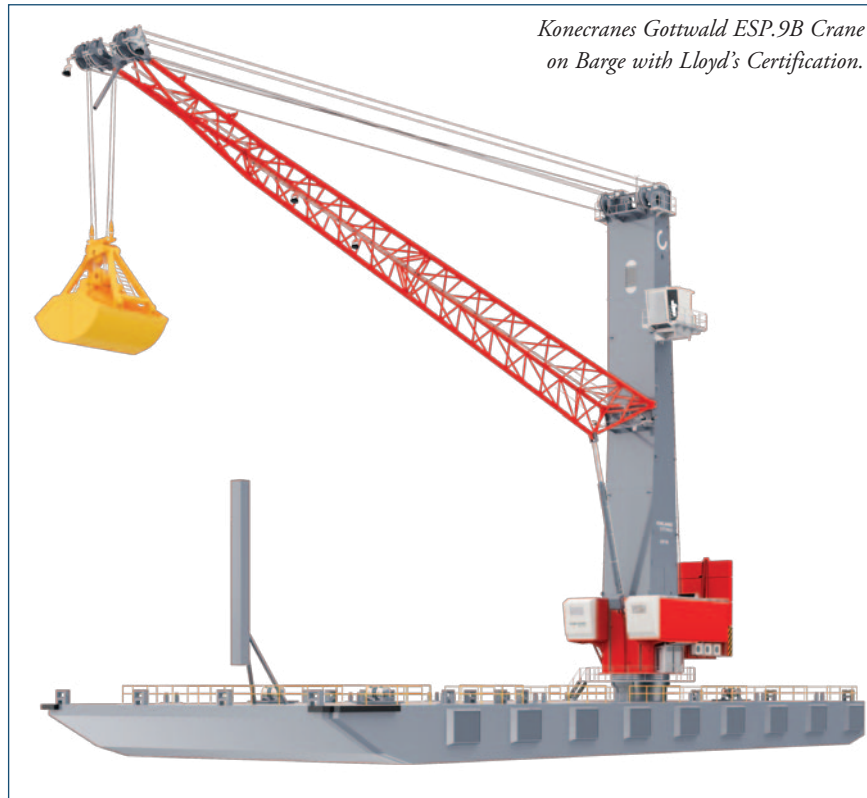
Konecranes Gottwald ESP.9B Crane on Barge receives Lloyd's Certification for open-sea operation

The Generation 6 Konecranes Gottwald ESP.9B mobile harbour crane has received barge certification under the Lloyd's Register Code for Lifting Appliances in a Marine Environment. Konecranes has a 20-year history of using mobile harbour crane technology on water — from navigable rivers like the Mississippi to the demands of the open sea.

PROVEN HANDLING SOLUTION WITH STATE-OF-THE-ART TECHNOLOGY

The Lloyd's certification is another important step in the successful introduction of Generation 6, which combines the proven crane concept of previous generations with state-of-the-art technology and a new modular design. Built to handle wind speeds of up to 24 metres per second and maximum wave heights of 2.5 metres, the ESP.9B crane enables reliable bulk handling in tough sea conditions.

"For nearly two decades, Konecranes has offered customers a high-performance solution for bulk material transshipments on the open sea. Now we have brought this capability to the next generation too," explains Giuseppe Di Lisa, Vice President Sales & Marketing, Business Unit Mobile



Konecranes Gottwald ESP.9B Crane on Barge with Lloyd's Certification.

Harbor Cranes at Konecranes.

"Like its predecessor, the ESP.9B crane on barge is designed for continuous bulk handling. It offers a maximum radius of

43 metres and a powerful grab curve of 63 tonnes. The technical achievements of Generation 6 make it future-proof in every respect. By placing the tower cab higher

Konecranes Gottwald Crane on barge off the coast of Indonesia.



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 mobile harbor crane at a port, lifting a heavy metal bucket. The crane has 'Ership' written on its side. A large ship is docked to the right, and a pile of dark material is visible on the left. The sky is blue with some clouds.

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

Konecranes Gottwald Crane on barge off the coast of Guinea in West Africa.



up, we've again increased user-friendliness and view on the working area," says Di Lisa.

GRADUAL PRODUCT DEVELOPMENT THROUGH EXCHANGE WITH CUSTOMERS

With the new Generation 6 crane on barge, Konecranes is again responding to customer demands, as Di Lisa explains: "With a growing number of Konecranes Gottwald cranes on barge in operation around the world, we have continuously strengthened our leading position in this segment. It's thus always been our aim to offer customers a Lloyd's-certified Generation 6 crane on barge."

"Our technology has proven itself again and again on the open sea, even under difficult conditions. We have now combined this proven technology with new features that ensure our customers can benefit from high-performance and state-of-the-art equipment. The Lloyd's Register Code approval confirms the structured approach that our engineers have taken with the development of Generation 6," says Di Lisa.

The ESP9.B embodies two key principles of Konecranes product development: on the one hand, engineering focuses on the continuous, gradual development of mobile harbour crane

technology. On the other hand — thanks to an ongoing exchange with customers — the market's current and future needs are incorporated directly into new equipment.

MISSISSIPPI SUCCESS STORY CONTINUES ON THE OPEN SEA

The opening chapters of this success story were written on the Mississippi, where the number of Konecranes Gottwald cranes on barge grew rapidly.

"Our first crane on barge was developed as a result of an inquiry from an operator on the Mississippi. The customer wanted a crane that would bring the high performance of our mobile harbour crane technology from land to river. This was the beginning of a successful journey that we are now continuing with the Generation 6 cranes," explains Di Lisa.

In 2006, Konecranes' first Lloyd's certified crane for use on the open sea was put into operation. The crane had been ordered for handling coal exports off the coast of Indonesia. Due to its reliable performance, Konecranes soon delivered further cranes on barge to the Southeast-Asia region.

Another rapidly growing fleet of Konecranes Gottwald cranes on barge is in operation off the coast of Guinea in West

Africa. Guinea has the world's largest reserves of bauxite, the key raw material in aluminum production. Bauxite mined inland is transported by riverboat to the coast, where meanwhile ten cranes load the ore onto sea-going vessels. As in Indonesia, the Konecranes equipment enables safe and fast handling to keep this global supply chain moving.

FLEXIBLE CONCEPT ENSURES SHORT DELIVERY TIMES

In addition to high performance, reliability and digital intelligence, Konecranes cranes on barge come with a modular design. This enables the cranes to be easily adapted to customer requirements and then delivered in comparable short time. This concept has again proven itself which is underlined by two orders that have been received for this crane type.

THE KONECRANES GOTTWALD ESP9.B AT A GLANCE

- ❖ maximum radius of 43 metres; powerful grab curve of 63 tonnes;
- ❖ bulk handling at wind speeds of up to 24 metres per second and maximum wave heights of 2.5 metres;
- ❖ flexible modular system; and
- ❖ comparably short delivery times.

Spliethoff expands fleet with L-type



Spliethoff has recently announced that it has placed an order with Wuhu Shipyard Co. Ltd. in China for the construction of a new series of eight multi-purpose vessels with an option for two additional vessels. This new series will be delivered starting the first quarter of 2028.

The L-type vessels are specially designed for the transportation of various dry cargo types, including paper products, bulk cargo, project cargo and containers. These Finnish/Swedish 1A Ice-Classed vessels will measure 203.25m in length, 28.25m in width, and will have a maximum draught of 10.5m. They will have a total capacity of about 33,700m³ and a deadweight of 28,600 tonnes, making them the largest vessels in the Spliethoff fleet.

The energy-efficient vessels are designed with slender hull lines and will be prepared for the use of future fuels. The vessels, with the bridge located at the front, will be equipped with five lifts (side loaders) and three cranes with a capacity of 150 tonnes each, combinable to 300 tonnes SWL. The deck of these vessels is large and free from obstructions, making it suitable for cargo with large dimensions.

Michael van den Heuvel, CCO: "We are convinced that we will have secured the excellent service to our clients for the future and look forward to welcoming these energy-efficient vessels into our fleet. We are proud of this step forward and believe that the L-type will play an important role in the sustainable future of our company."





Shi.E.L.D. Services
technical management & consulting

www.shieldserviceslogistics.com

Shi.E.L.D. Services specializes in onshore and offshore logistics of dry bulk materials. We offer a complete suite of services including feasibility studies, definition and development of optimal logistics solutions, vessel design, supervision of new-building construction and vessel conversion, technical, crew and operational management of a diverse range of offshore assets.



Shi.E.L.D. Services
technical management & consulting

www.shieldserviceslogistics.com

Shi.E.L.D. Services specializes in onshore and offshore logistics of dry bulk materials. We offer a complete suite of services including feasibility studies, definition and development of optimal logistics solutions, vessel design, supervision of new-building construction and vessel conversion, technical, crew and operational management of a diverse range of offshore assets.

ITALY | INDONESIA | UAE | NEW ZEALAND

**LOGISTICS SOLUTIONS
THAT UNLOCK A WORLD
OF POSSIBILITIES FOR
YOUR BUSINESS**

FEASIBILITY STUDIES
SIMULATION STUDIES
NEWBUILD DESIGN
VESSEL CONVERSION
SHIP MANAGEMENT
PROJECT MANAGEMENT

Eureka Shipping announces construction of new cutting-edge cement carrier for Great Lakes trade



Eureka Shipping's newbuild 12,500dwt cement mechanical/pneumatic ship, designed to replace two older vessels, is scheduled for delivery in 2025 and will commence operations in the Great Lakes region.

Eureka Shipping, a provider of sustainable, high-efficiency cement carrier services jointly owned by SMT Shipping and The CSL Group, announce the construction of a state-of-art mechanical/pneumatic cement ship destined for operation in the Great Lakes. The cutting-edge vessel with a deadweight of 12,500 metric tonnes, is designed to replace two older vessels, while maintaining the same cargo capacity.

"Building a ship aligned with eco-friendly principles is a top priority for both Eureka Shipping and our customer," said Kai Grotterud, Managing Director of Eureka Shipping. "Our new cement carrier is expected to contribute significantly to decarbonization by drastically reducing the emissions per metric tonne of cargo carried.

From its propulsion system to its onboard amenities, every aspect of the new vessel's design reflects a dedication to safety, environmental stewardship and operational efficiency. Key features include:

- ❖ a diesel-electric propulsion system consisting of four generator sets, providing redundancy for both navigation and cargo operation;
- ❖ modern, fuel-efficient engines capable of operating on HVO biofuel, to enhance performance and reduce emissions;
- ❖ two rudder propellers with 360 degree thrust, plus a powerful bow-thruster, for superior manoeuvrability

and optimized navigation safety;

- ❖ energy-saving measures to minimize power consumption, including LED lighting throughout;
- ❖ state-of-the-art cargo handling equipment to reduce power usage during loading and unloading operations;
- ❖ extensive noise insulations and silencers on machinery and cargo handling equipment;
- ❖ prepared for operation on shore power when such power becomes available; and
- ❖ high-quality accommodations for officers and crew, prioritizing comfort and well-being.

The new vessel, currently under construction by the Holland Shipyard Group in the Netherlands, is scheduled for delivery in 2025 and will commence operations in the Great Lakes region.

In the interim, prior to the new vessel's arrival in Canada, *Sunnanvik*, a 8,600dwt mechanical/pneumatic cement carrier previously operating in Europe, is servicing its trade routes from April 2024. Equipped with modified discharge equipment tailored to the customer's receiving terminals, the vessel will discharge cargo at rates of up to 1,000 tonnes per hour.

As part of Eureka's commitment to decarbonization, *Sunnanvik* was fitted with two flexible, vertical 'Ventofoil' 'wing' sails from Econowind in 2023. These innovative

sails harness wind energy to provide additional thrust, contributing to lower emissions. Conditions permitting, they will be tested on the Great Lakes, enhancing the vessel's speed in favourable wind conditions.

Sunnanvik holds the distinction of being the first sail-equipped vessel to operate in the Great Lakes.

ABOUT EUREKA SHIPPING

Eureka Shipping Ltd. is a leading provider of logistical services within the specialized segment of pneumatic and mechanical cement carriers. Eureka owns and commercially operates a fleet of self-unloading cement carriers ranging in size from 3,000dwt to 23,000dwt in the Baltic Sea, the Atlantic Ocean, the Mediterranean Sea, the Caribbean and the Great Lakes.

The 12,500dwt vessel for the Great Lakes is the eighth newbuild cement vessel for Eureka Shipping since 2017, and the company is continuing its development with further fuel-efficient, low-emission vessels.

ABOUT SMT SHIPPING

SMT Shipping has, over the past 30 years, grown to a fleet of about 72 vessels through a number of joint venture companies operating in various bulk commodities markets, focusing on highly efficient geared bulk carriers, floating storage/transshipment terminals and belt-unloaders.

The UK's Port of Liverpool welcomes the UK's largest whole maize vessel

The Port of Liverpool, part of the Peel Ports Group, has welcomed the UK's largest shipment of feed maize, reinforcing its crucial role in supporting the nation's agricultural sector.

The bulk carrier, *Lowlands Future*, arrived from the East Coast of the United States, delivering 55,000 tonnes of maize. This record-breaking shipment is set to play a vital role in supplying animal feed to local farming communities, highlighting the port's importance in the UK's agricultural supply chain.

The importation was managed by ADM Agriculture, a global leader in animal nutrition. The maize will be stored in ADM's dedicated port-centric facilities at Liverpool before distribution to farms across the region.

Phil Hall, Mersey Port Director, Peel Ports Group said: "This shipment demonstrates our port's capability to efficiently handle large-scale imports crucial to the nation's food supply chain.

"Our partnership with ADM Agriculture and our state-of-the-art facilities have enabled us to process this volume, reinforcing Liverpool's position as a key gateway for agricultural commodities.

"Continued investment, such as our new £28 million dry bulk facility at Alexandra Dock, highlights our ongoing commitment to enhancing the services we provide to the agriculture supply chain."

Albert Linney, Senior Trader at ADM Agriculture said: "In a challenging year for UK domestic cereals with the UK wheat crop production around 25% lower vs the previous crop year, imported feed maize has featured very well into domestic rations across the Ruminant and



Teams from the Port of Liverpool and ADM Agriculture pictured at the recent arrival of the Lowlands Future.

Monogastric sectors.

"In light of such demand, ADM in partnership with Peel Ports have just undertaken the largest single discharge port execution for a feed maize vessel ever imported into the UK, with 55,000 metric tonnes on board *Lowlands Future* into the port of Liverpool.

"A special thank you to both the teams of Peel Ports Group and ADM for facilitating this shipment."

The successful delivery by *Lowlands Future* last month represents a significant boost to the agricultural sector, supporting food security and the supply of essential raw materials across the UK.

The Port of Liverpool continues to play a pivotal role in the import and distribution of agricultural products, reinforcing its position as a critical hub for international trade.

ABOUT PEEL PORTS GROUP

Peel Ports Group is the UK's second-largest port operator, owning and operating six of the UK's most important ports (Liverpool, Heysham, Manchester Ship Canal, Medway (Sheerness/Chatham), Clydeport and Great Yarmouth).

It also operates a container terminal in Dublin and owns BG Freight Line, which provides short sea container services between the UK, Ireland and mainland Europe and Peel Ports Logistics, one of the UK's leading shipping and freight forwarders.

Peel Ports handles approximately 70 million tonnes of cargo every year. Fourteen per cent of the total UK major ports traffic flows through ports operated by the Group.

Headquartered in Liverpool, it employs around 2,000 staff.



ADM Agriculture's Liverpool animal feed store is the largest in the UK.

Ports of Indiana, Indiana State Department of Agriculture sign MOU to increase collaboration, agriculture trade and container shipping

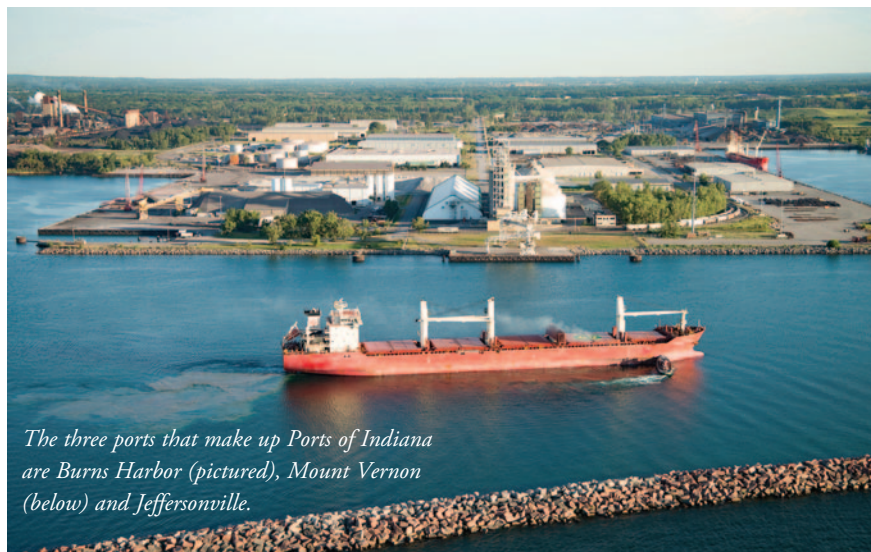
Ports of Indiana and the Indiana State Department of Agriculture (ISDA) have signed a Memorandum of Understanding (MOU) to increase collaboration, expand agricultural trade and create new container shipping opportunities for Indiana.

The primary purpose of the MOU is to establish a framework for enhanced collaboration, to promote increased agricultural trade, and to foster economic development for Indiana. The MOU outlines an agreement for the organizations to partner in the following ways:

- ❖ Encourage and support the expansion of agricultural exports through the state's port facilities.
- ❖ Investigate opportunities to develop new container shipping facilities that serve critical needs in the agriculture and hardwood industries.
- ❖ Connect key agricultural stakeholders with Indiana's ports to explore new shipping opportunities and convene critical stakeholder forums.
- ❖ Research container export opportunities related to ISDA's key priorities, including agricultural and hardwood commodities.

"ISDA has helped position Indiana agriculture as a global leader in innovation and commercialization for food and fuel production, and our ports play a critical role in connecting our ag industry with world markets," said Jody Peacock, CEO for the Ports of Indiana. "Our organizations and industries are inextricably linked, and we have several shared objectives and opportunities for collaboration that can create future growth for our state and agricultural communities."

Earlier this year, the two organizations partnered with the Indiana Soybean Alliance and Indiana Corn Marketing Council to conduct a trade mission to



The three ports that make up Ports of Indiana are Burns Harbor (pictured), Mount Vernon (below) and Jeffersonville.

Indonesia and to host the first-ever Indiana Container Shipping Conference. Governor Eric Holcomb kicked off the conference as business, agriculture, and transportation leaders discussed ways to develop new container ports, grow agriculture exports and expand global trade to support Indiana's economic growth. In July, Ports of Indiana received federal approval to establish Indiana's first international sea cargo container terminal on Lake Michigan and signed an MOU with the Port of Antwerp-Bruges to explore new agriculture and container shipping opportunities.

"It's an exciting time for Indiana and I see a bright future for our ag industry in the global marketplace," said ISDA Director Don Lamb. "One of our shared goals is to make it as easy as possible for Indiana farmers and agribusinesses to market their products worldwide. By exploring opportunities to provide new container shipping facilities and better leveraging our ports, we're taking a major step forward in giving our growers a long-term

competitive advantage."

Agriculture contributes more than \$35.1 billion annually to the Hoosier economy, making Indiana the ninth largest agriculture state. Indiana ranks 13th in the nation for waterborne shipping, generating \$29.9 billion in annual economic impact. Ports of Indiana handles more than four million tonnes of agriculture products at its three ports on the Ohio River and Lake Michigan, and those cargoes make up more than a third of the total shipments.

ABOUT PORTS OF INDIANA

Ports of Indiana is a statewide port authority operating three ports on the Ohio River and Lake Michigan. Established in 1961, Ports of Indiana is a self-funded enterprise dedicated to growing Indiana's economy by developing and maintaining a world-class port system, and by serving as a statewide resource for maritime issues, international trade, and multimodal logistics.

ABOUT THE INDIANA STATE DEPARTMENT OF AGRICULTURE

ISDA was established as a state agency by the Legislature in 2005. ISDA reports to the Lt. Governor, who also serves as Indiana's Secretary of Agriculture and Rural Development. ISDA is also a member of the Governor's Cabinet. Major responsibilities include advocacy for Indiana agriculture at the local, state and federal level, managing soil conservation programmes, promoting economic development and agricultural innovation, serving as a regulatory ombudsman for agricultural businesses, and licensing grain firms throughout the state.



Port of Mount Vernon.

Business booming at Santos

In July, the Port of Santos, Brazil, posted a new monthly record for traffic, reporting a volume of 16.3mt (million tonnes). This was an increase of 6.9% compared to July 2023, when it handled 15.3mt. As for the year as a whole, traffic amounted to 105.5mt for the first seven months, equivalent to growth of 9.7%, which was also a record.

And it was agribulk traffic that led the charge, especially sugar and soybeans. In

January–July, the port handled 14.8mt of the former, up 43.1%, while the latter reached 26.2mt, albeit down 2% on the year, although up 18.4% in July.

Other commodities performed well too. Coffee bean shipments of 197,900 tonnes in July was a 49% hike over July 2023. The annual figure of 1.4mt represents growth of 60%.

Pulp increased by 35% in July, with 661,000 tonnes, and grew by 7.9% on the

year to 4.5mt.

Inbound fertilizer traffic performed well in July, rising 37.8% to 725.900 tonnes, although is down by 4% on the year at 4mt.

So, for the first seven months of 2024, dry bulk traffic at the port amounted to 54.7mt, up 3.6%.

In terms of commodities, soybeans accounted for 51.1% of the total, sugar 22.5%, pelleted soybeans 10.7%, fertilizer 7.2% and corn 2.6%. *Barry Cross*

Bulk business rising in Brazil

According to figures released by ANTAQ, publicly owned ports in Brazil handled 43.22mt (million tonnes) in July, up 6.02%. Once privately owned ports are added, those figures rise to 118.96mt, up 1.38% compared to July 2023.

For the first seven months of the year, Brazilian ports handled a total of 764.7mt. Those commodities performing best were wheat (up 59.75%), sugar (up 22.18%) and fertilizer (up 18.55%). *Barry Cross*

Bergé acquires second LHM 550 for Tarragona

In the Port of Tarragona, terminal operator Bergé has taken delivery of the second Liebherr LHM 550 mobile harbour crane. The first arrived in September.

This unit is more environmentally friendly than previous models, using 26% less fuel for the same work. It also emits less noise and has overall greater insulation.

It has an outreach of 54 metres and a maximum load capacity of 144 tonnes. It is therefore suitable to be deployed on dry bulk shipments, as well as on steel products and project cargo.

Bergé has also acquired the variant that incorporates the LiDAT Smart App Maintenance programme, which gives a real-time view of equipment status and performance to ensure that the machinery is in perfect condition, thereby cutting down time and increasing availability. *Barry Cross*



PORT AGENCY STEVEDORING TRANSPORT CHARTERING SEATOWAGE BULK CARGO CREWING

WWW.MAG.PL
MAG@MAG.PL



New grain terminal at DP World's Port in Santos boosts Brazil's export capacity

As one of the world's top agricultural exporters, Brazil is reinforcing its position in the global grain market with the development of a dedicated grain terminal at the country's largest and busiest port – Santos, writes *Fabio Siccherino, CEO of DP World Santos*.

The terminal promises to boost Brazil's export capacity by 12.5mt (million tonnes) a year, strengthening the nation's role as a leading supplier of soybeans, maize and fertilizers.

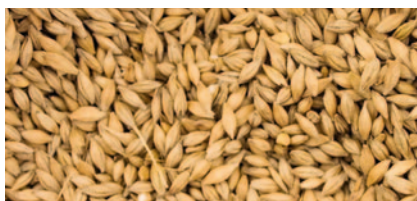
Recognizing the potential of this strategic location, DP World signed an agreement with Rumo, Brazil's leading railway operator, in March this year to develop this cutting-edge facility. Designed to handle 9mt of grains and 3.5mt of fertilizers each year, the terminal will significantly enhance Brazil's ability to meet growing global demand while streamlining the handling and transport of key commodities.

This collaboration marks DP World's fourth round of investment in Santos since it began operations in 2013, further solidifying its position as Brazil's leading multipurpose port operator — handling containers, cellulose, and soon, grains and fertilizers.

POWERING GLOBAL GRAIN SUPPLIES

Brazil's agricultural strength is undeniable. The country accounts for nearly 43% of global soybean and maize exports, making it a critical supplier to nations such as China, India, Egypt, and the European Union. These regions represent 46% of global grain imports, underscoring Brazil's essential role in feeding the world.

Between 2021 and 2023, Brazil's grain exports surged from 102mt to 151mt. This remarkable growth contrasts with declines in exports from other countries, highlighting Brazil's expanding influence in



the global grain market. The trend is expected to continue, with the Brazilian Ministry of Agriculture forecasting a 24.1% rise in production over the next decade, bringing total output to nearly 390mt by the 2032/2033 crop season.

ADVANCED INFRASTRUCTURE FOR GLOBAL TRADE

Under the 30-year agreement with Rumo, DPWorld will provide the terminal area on the left bank of Port of Santos and manage its operations and port services.

The terminal will feature two berths designed to accommodate Capesize and Panamax vessels, along with two ship loaders for grains and an unloader for fertilizers, ensuring efficient loading and unloading operations.

Storage capacity will be substantial, with six grain silos holding up to 175,000 tonnes and a fertilizer warehouse capable of storing 70,000 tonnes in 12 bays. This setup facilitates seamless storage and transfers.

The terminal's railway dispatch system is also optimized for efficiency, capable of loading two simultaneous wagons at 16 wagons per hour. With a railway hopper that can handle 3,000 tonnes per hour and accommodating 348 wagons per day. Road reception facilities include two tipping points and one direct discharge, handling 14 trucks per hour.

This sophisticated infrastructure not only boosts the port's throughput but also streamlines Brazil's grain and fertilizer export operations, enabling smoother

logistics from farms to international markets.

SECURING BRAZIL'S AGRICULTURAL FUTURE

The total investment for the construction is estimated at \$500 million, which will be financed through a combination of its own resources, loans, and potential strategic partnerships. As global demand for agricultural products continues to rise, Santos is poised to become a critical asset for Brazil and its international trade partners. The terminal's expanded capacity will help reduce supply chain bottlenecks, ensuring timely deliveries to key markets such as China, India, and Europe, where food security concerns are driving higher demand for grain imports.

This development is a strategic investment not only in Brazil's agricultural future but also in its broader economic growth. By improving export infrastructure at Santos, Brazil ensures it can keep pace with rising global demand while maintaining its competitive edge in the agricultural sector.

In addition, the terminal supports the country's environmental goals. By reducing inefficiencies in logistics and transportation, it helps lower the carbon footprint associated with getting Brazil's grains to market.

With the completion of the new grain terminal, DP World and Rumo will unlock the full potential of the Port of Santos. This positions Brazil as a major force in agricultural trade and its role as a reliable global supplier of essential food commodities.

As Brazil's agricultural production continues to expand, the new terminal will play a vital role in ensuring the country remains a top-tier global exporter, ready to meet the challenges of a growing global population and the rising demand for food security.

New eco-hopper for TMC

Terminal Marítima de Cartagena, which operates at the Spanish Mediterranean Port of Cartagena, has acquired a semi-ecological smart hopper to improve the unloading of dry bulk consignments. The hopper was built specifically for TMC by Herjimar for deployment at the terminal the operator has at Escombreras.

The unit, which was built in four months, cost €400,000, and incorporates specific integrated technological equipment that, by combining the action of specific filters for dust collection with a complementary highly watertight seal, prevents or greatly minimizes the emission of polluting particles when materials are unloaded into the hopper. The hopper effectively retains a large part of the volatile particles generated during unloading, avoiding clouds of dust and other harmful particles that would otherwise escape into the atmosphere.

Barry Cross

Belledune Port Authority and QSL solidify partnership with new 25-year agreement

The Belledune Port Authority and its logistics partner QSL are strengthening their strategic partnership with the signing of a new 25-year lease agreement that will help transform the Port into a green energy hub and enhance supply chain opportunities with Europe.

Partners since 1997, QSL and the Port of Belledune share a vision of innovation, infrastructure investment and sustainable growth. QSL is a key supply chain player in port terminal operations, stevedoring, marine services logistics and transport throughout North America.

"BPA and QSL have a great history of combining forces to improve and expand Port and materials handling infrastructure," says Robert Bellisle, President and CEO of QSL. "We are proud of our commitment to Belledune and look forward to the next phase of growth. This partnership is a powerful demonstration of how we can achieve long-term, sustainable development, a critical component of our business model."

"We are very fortunate to be working with a partner that shares our vision for sustainability in both operations and business development," says Denis Caron, President and CEO, Port of Belledune. We have grown together for nearly three decades and are looking toward the next horizon, building innovation and growth into our operations to secure a greener and more prosperous future for the port, our clients and our local communities."

The partners have recently completed a \$35 million terminal expansion project at Belledune, with support from the National Trade Corridor Fund and the Government of New Brunswick. This project expanded Terminals 3 and 4 to increase the footprint for QSL operations, laying the foundation for many more successful years of cargo handling. QSL and BPA continue to plan for growth and look forward to attracting more business with an increased QSL presence and a vision for efficiency improvement, GHG emission reduction and an overall drive for increased tonnage movement through Belledune.

Together with suppliers and project partners, QSL and BPA are also working to develop and grow green energy projects and expand renewable energy supply chains in Northern New Brunswick. These efforts have helped Belledune become Eastern Canada's largest supplier of renewable wood pellets to Europe and they are continuing efforts to green terminal operations as partners and members of Green Marine.

Through this transformation, the leaders of both organizations are committed to engaging with suppliers, community leaders and indigenous rights holders to ensure that concerns are understood and benefits are shared.



With over 87 years of experience, at GRUPO ETE we have become a recognised logistics organisation, combining efficiency and know-how, providing customized solutions in Shipping, Port Operations, Inland Waterways, Shipping Agents, Logistics and Engineering, Ship Building and Repair, all over the world.

Thanks to our international presence in 9 countries - Belgium, Spain, United Kingdom, Portugal, Cape Verde, Mozambique, Dubai, Colombia and Uruguay - we create new business opportunities and value-added services to our clients.

Find out more at www.ete.pt



GRUPO ETE

ABP acquires land to fuel future growth

Associated British Ports (ABP) has acquired 21 acres of land on the western side of the Port of Immingham in an off-market transaction.

The acquired land is strategically positioned with frontage to Humber Road and Rosper Road. It forms an important additional step the future expansion of the port estate owned by the UK's leading and largest ports group.

The land has a live hybrid outline planning application for up to 300,000ft² of new industrial buildings or 16 acres of industrial open storage uses. The application is expected to be determined by North Lincolnshire Council planners soon. Andrew Dawes, Director of the Humber ports said: "Acquiring this strategic site on the western side of the Port of Immingham is integral to bolstering our footprint and ensuring the port — the UK's largest by tonnage — has room for growth to meet the demands of our customers on the Humber.

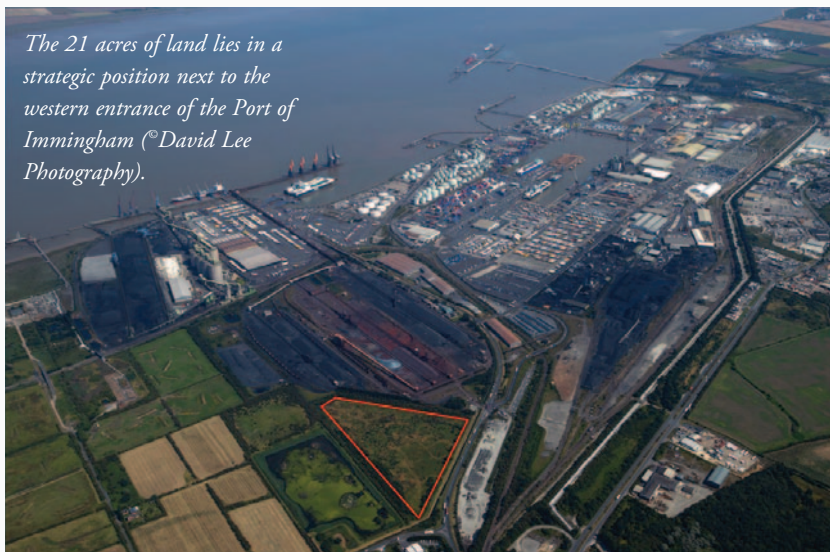
"It underpins our commitment to pursuing our ambitious mission to continuing to provide essential gateways to Keep Britain Trading. Immingham is at the heart of the UK's busiest trading gateway handling around 46mt (million tonnes) of cargo every year."

Greg Lacey, Head of Property said: "This is another strategically important land acquisition at the UK's largest port by tonnage, following the purchase of Stallingborough Interchange late last year. We are witnessing continued strong demand for warehousing to support traditional bulk cargos, as well as from industrial open storage requirements.

"The site's proximity to both Philips 66 and Prax is important, and we are considering how it could play into much broader energy projects for generation and storage — which is a key part of ABP's new mission to Enable the Energy Transition, and in this particular case, play our part in helping decarbonize the Humber".

ABP has a total portfolio of 8,600 acres across the UK, which includes over 2,400 acres of development land. The Humber property team can deliver commercial property solutions for businesses interested in prime industrial

The 21 acres of land lies in a strategic position next to the western entrance of the Port of Immingham (©David Lee Photography).



and logistics opportunities. ABP welcomed over 150 new occupiers in 2023 bringing a total of 2,000 tenants across the estate.

ABOUT ABP HUMBER

ABP Humber Ports complex form the UK's busiest trading gateway. The four ports of Immingham, Grimsby, Goole, and Hull handle more than 58mt of cargo between them each year worth approximately £75 billion. Across the Humber, the ports support 34,900 jobs and contribute £2.5 billion to the UK economy.

ABP Humber's major investment programme ensures the ports offer state-of the-art cargo handling infrastructure and equipment, alongside a highly skilled team who can handle a vast array of cargo safely, efficiently, and sustainably.

It works collaboratively to build long-term partnerships and deliver the right supply chain solutions for customers, including value-added services and new facilities tailored to suit their business needs.

ABP Humber's Port Operations are complemented by its Pilotage Service and Vessel Traffic Service which ensure vessels are safely navigated through the Humber Estuary.

ABP Humber offers 364 hectares of development land across its port locations capable of attracting investment and delivering transformational benefits for the economy both locally and nationally.

The ports are all part of the new Humber Freeport, which offers three tax sites with an exceptionally business-friendly tax and regulatory environment for potential manufacturing investors.

ABP Humber supports its local communities. The ABP Humber Coastal Half Marathon and 10k is now in its 7th year and complements ABP's race sponsorship across the country.

ABOUT ABP

Associated British Ports (ABP) is the UK's leading ports group, with 21 ports and other transport-related businesses, creating a unique national network capable of handling a vast array of cargo. It is driving growth, contributing £15 billion to the UK economy every year and supporting over 200,000 jobs.

ABP is redefining what Keeping Britain Trading means in the greener, cleaner economy. Its sustainability strategy, ABP Ready for Tomorrow, which sets out our plan to reach net zero greenhouse gas emissions from its own operations by 2040.

ABP IN NUMBERS:

- ❖ ~ 90mt of cargo handled each year;
- ❖ 4,000 hectares of port estate owned;
- ❖ 38% reduction in GHG emissions from 2014–2021;
- ❖ 18 out of 21 ports have renewable energy generation projects;
- ❖ > £55 million investment made in low emission and renewable energy generation technologies.

Bruks Siwertell secures new ship-unloader order for major grain handler

Bruks Siwertell has won a continuous screw-type ship unloader contract to support the operations of a major grain handler in the Philippines. The Siwertell ST 640 M-type ship unloader was ordered to deliver efficient, environment-friendly malt and grain handling in the Filipino port of Luzon.

“We have a number of Siwertell systems serving various dry bulk handling operations in the region, and our ship unloaders are especially well known for the unique advantages that they offer to grain handlers,” says Ola Jeppsson, Sales Manager, Bruks Siwertell. “Operators know that they can rely on Siwertell technology to deliver the market’s highest through-ship capacities, whilst ensuring that grains and agri-bulk are handled carefully, so that material degradation is minimal. This ensures shipment quality for sensitive cargoes like these.

“We are delighted to continue serving the grain handling sector, and with several new terminals planned in the Philippines, we are hopeful that many more operators will benefit from the unique capabilities of our ship-unloading equipment,” he adds.

The new installation has been designed with the region’s climate in mind. “This is a climatically challenging environment,” Jeppsson explains. “Port equipment in the area has to be robust enough to withstand seasonal typhoons and earthquakes. Furthermore, this new ship-unloader will be installed on a particularly exposed jetty, and will be able to discharge vessels from both sides.”

The screw-type Siwertell ship-unloading system will offer a continuous rated capacity of 800tph (tonnes per hour) for handling malt and other grains. It will be delivered fully assembled to the port via heavy-lift ship in the third-quarter of 2025.



Bruks Siwertell has secured a new ship-unloader order for a major grain handler.

Testing the value

The Fenner Dunlop laboratory, situated in its Drachten plant in the Netherlands, lies at the very heart of everything that the company does, writes *Leslie David*. Having established a reputation for quality and innovation over the past 100 years, the laboratory plays a pivotal role in the quality control process and research & development. For example, every single batch of rubber compound has to be thoroughly tested and approved by the lab technicians before it is allowed to be used to produce conveyor belts. This is key to achieving consistency of quality and performance.

COMPARISON TESTING

Testing samples of belt made by its competitors is a routine part of the work carried out in the Fenner Dunlop lab. This kind of testing provides a factual, scientific insight that helps it keep ahead of its competitors. The company needs to know the strengths and advantages of its belts and how they compare to the competition. With cut-price imported belting from the Far East, primarily China, continuing to swamp the market, quality and value comparison is more important than ever. This is especially true in terms of whole life cost, those who believe

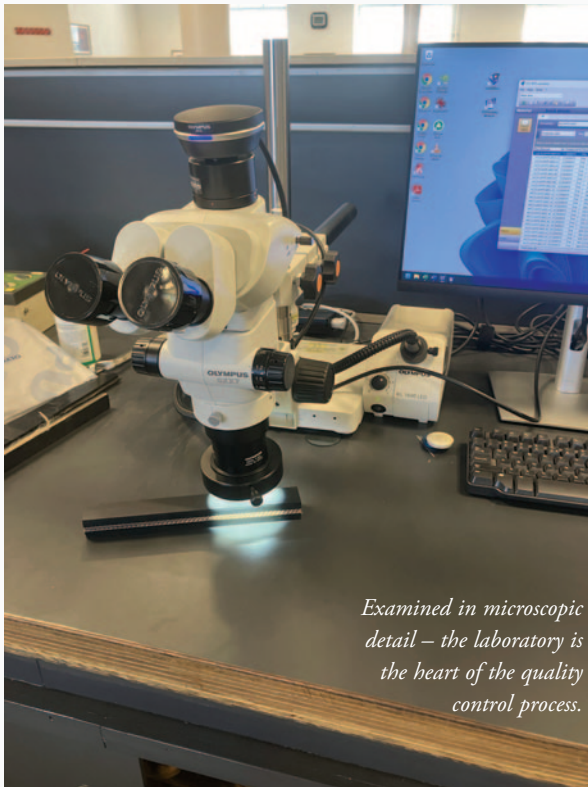
that they are saving money are almost invariably

paying a much higher price than they realize, as these brief summaries of recently tested imported belts confirm:

Far East import EP 800/4 7 + 2 DIN W Abrasion resistant: this belt was specified and supplied as a 630/4 but was actually an 800/4. Cover properties did NOT meet the claimed DIN W standard in terms of abrasion resistance, tensile strength and tear strength. DIN W is the highest standard for abrasion resistant belting but the tensile strength of the cover was actually below DIN Z, which is the lowest standard. The belt was NOT ozone resistant. The tested belt was significantly below Dunlop standards and not adequate for purpose.

Far East import EP 1000/4 7 + 2 DIN W Abrasion resistant: this 1,000N/mm belt had an 800N/mm fabric carcass and consequently failed to meet its promised specification. The rubber covers were far below DIN W requirements and therefore failed to meet the claimed specification. The belt was NOT ozone resistant. The belt had clearly been supplied under false pretences and again unsuitable for the intended purpose.

Far East import 400/3 4+2 MOR Oil Resistant: the complete absence of resistance to oils and greases, full polyester carcass rather than the claimed polyester/nylon mix (EP) and an almost total absence of ozone resistance mean that this belt does not meet claimed expectations and was unfit for purpose.



Examined in microscopic detail – the laboratory is the heart of the quality control process.



CONVEYING ADVICE

LEARNING THE HARD WAY — CASE STUDY

A company in Germany thought that they could save some money by buying an EP 630/4 4 + 2 DIN Y abrasion resistant belt from a 'local' manufacturer that was 'cheaper' than the Fenner Dunlop belt they had been offered. Unfortunately for them, they discovered the hard way that there was a good reason for the big price difference. When several different performance issues quickly became apparent, they sent a sample of the 'economy' belt for laboratory testing. Here is a summary of the test findings:

- ❖ **Belt properties:** testing revealed that the fabric plies of the belt carcass were entirely polyester (EE) rather than the claimed



ISO 252 – testing for adhesion levels.

specification polyester/nylon mix (EP). The elongation was extremely low (0.62%), which causes serious compression in the carcass resulting in delamination between the fabric plies and carcass tears are likely to occur after only a limited time. Also, adhesion levels between the inner plies and between the carcass and the outer covers were below DIN/ISO minimum requirements. This is another serious cause of splice joint problems and also carcass delamination leading to the premature failure of the whole belt.

- ❖ **Covers:** cover properties were exceptionally bad with almost non-existent abrasion resistance (325Mm³) and not complying at all with the cover grade specification promised to the customer. Tensile strength, tear strength and elongation at break were also totally inadequate, caused by using the minimum possible amount of polymers and using bulking fillers such as clay to reduce the cost of the rubber.
- ❖ **Ozone resistance:** the cover started to crack within only eight hours exposure of the total test time of 96 hours exposure static ozone resistance testing (EN ISO 1431/1 procedure B). This is a very poor performance and will result in premature cracking of the covers and loss of physical properties when the belt is in use.
- ❖ **Conclusion:** the supplier in this case was a well-recognized trading/service company that claims to sell good quality products. The belt in question was almost certainly imported from the Far East and apart from the colour, did not comply at all with what the customer should reasonably have expected.



Testing exposes poor quality rubber that is not ozone or UV resistant.

Fenner Dunlop Conveyor Belting tests competitor samples on a very regular basis. The company never uses its findings to 'name and shame' competitors, but is sharing these results to show readers what is going on in the world. End-users are not able to test the products themselves and rely on the honesty of the supplier of the belts. As can be seen in the examples above, which form only a small fraction of the numerous similar examples that Fenner Dunlop has, the quality and value of what is being supplied frequently differs enormously from what should be expected.



What do you “grab”?



We deliver our products in an integrated one-stop process: from responding to RFQs to order acceptance, design, procurement, manufacturing and selling.

We manufacture products that meet the needs of our customers.

Specializing in the manufacturing, supply, installation and sale of material handling machinery – grab buckets, coil lifters and hoppers.

+81 (0) 47 352 5318 | <https://www.tobugrab.com/en/>



東部重工業株式会社
TOBU JUKOGYO CO., LTD.



Liebherr and ICO celebrate second LHM 550 at Antwerp XL

ICO's second LHM 550 will be used for handling containers and project cargo at ICO's terminal in Antwerp. The crane is currently scheduled to leave the factory in eight months. ICO has a successful history in lifting project cargo, previously using an LTM, and has experience with Liebherr cranes by renting them when needed. The choice for this model is driven by its enhanced lifting capacity and the excellent relationship with Liebherr, supported by the nearby Liebherr Belgium office and guaranteed high-level customer service.

Celebrating innovation and partnership at Antwerp XL, Liebherr and ICO are set to gather for a signing ceremony to commemorate the sale of the second LHM 550 to ICO. This event underscores the strong relationship between the two companies and their shared commitment to innovation in cargo handling. In Antwerp, ICO has been managing substantial volumes of out-of-gauge project cargo for years. However, its existing crane has become outdated both technically and in terms of capacity, as unit weights now often exceed 100 tonnes. Notably, about 75% of the cargo handled annually at the Antwerp terminal, amounting to 40,000 tonnes, consists of Liebherr cargo. This is a testament to modern and sustainable logistics, with Liebherr Colmar dispatching nearly all its overseas products by barge to the terminal, from where the cargo is distributed to various shipment berths.

AN INVESTMENT FOR THE FUTURE

"At ICO, we are constantly looking ahead to ensure we have the best equipment and technology to meet the evolving needs of our customers," says Alain Guillemyn, Managing Director at ICO Terminals. "The addition of the second Liebherr LHM 550 to our Antwerp terminal reflects our commitment to innovation and flexibility for all kinds of cargo projects. We aim to deliver efficiency and reliability across every operation, from traditional vehicle handling to complex project cargo. This investment further strengthens our position as a leader in sustainable, future-ready logistics solutions."

Since its establishment in 2003, ICO has been a leader in the roll-on/roll-off cargo handling sector. At the end of 2021, it made a strategic decision to invest in a Liebherr LHM 550 mobile harbour crane for its Zeebrugge terminal. This move was driven by the need to diversify beyond their core business of car handling and to meet the growing customer demand for



The first Liebherr mobile harbour crane of the latest product generation, delivered to ICO in 2021 and equipped with an e-drive, can be seen lifting project cargo at the Zeebrugge terminal.

increased RoRo shipment of project cargoes delivered by barge.

Three years on, it is clear that this was the right path to take. The first Liebherr LHM 550 handled 10,000 tonnes in its first year, 22,000 tonnes in the second, and a significant increase is anticipated in 2024. Today, ICO is pleased to announce the purchase of another LHM 550, this time for its Antwerp operations. The addition of the second LHM 550 not only boosts current operational efficiency but also prepares the company for future growth, enabling faster loading and unloading processes essential for maintaining a competitive edge.

In line with its commitment to sustainability, the organization is focused on reducing its carbon footprint through innovative technologies and practices. The two mobile harbour cranes play a crucial role in these efforts with their energy-efficient e-drive systems, which significantly cut emissions during operations.

The signing ceremony at Antwerp XL is a reminder of the continuous journey towards improving port logistics. The partnership between ICO and Liebherr showcase ways in which innovative technologies and better cargo-handling help move the industry forward.

ABOUT INTERNATIONAL CAR OPERATOR NV

ICO Terminals is a global player in Roll-on/Roll-off cargo handling and storage. Founded in 1984, the company's services not only include efficient loading and unloading of cars, construction equipment and breakbulk, but also extend to vehicle handling, ship agency and full handling of

customs obligations.

ABOUT LIEBHERR-MCCtec ROSTOCK GMBH

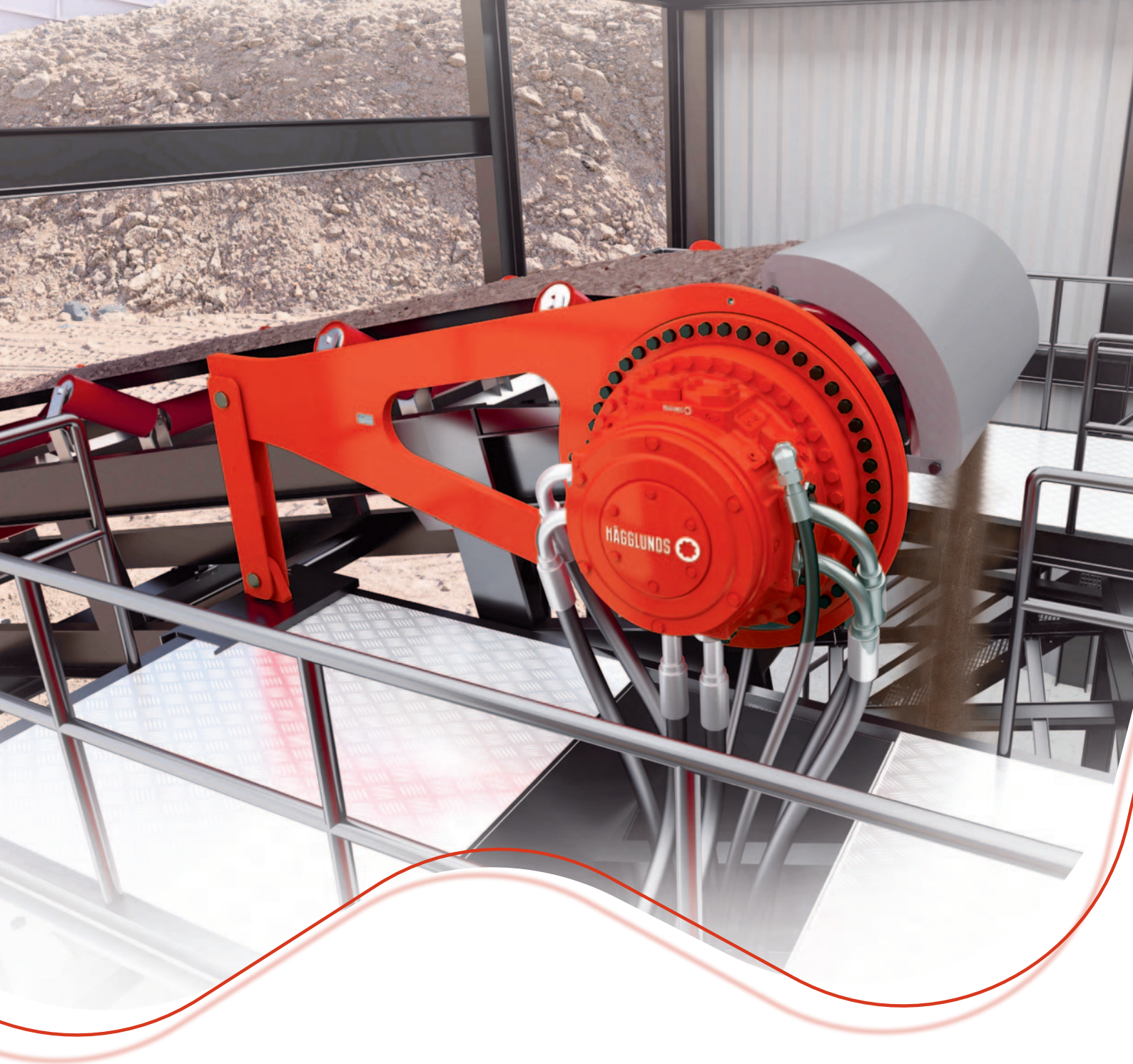
Liebherr-MCCtec Rostock GmbH is one of the leading European manufacturers of maritime handling solutions. The product range includes ship, mobile harbour and offshore cranes. Reach stackers and components for container cranes are also included in the product portfolio.

ABOUT THE LIEBHERR GROUP – 75 YEARS OF MOVING FORWARD

The Liebherr Group is a family-run technology company with a highly diversified product programme. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality, user-oriented products and services in a wide range of other areas.



A signing ceremony was held at Antwerp XL on October 9 to commemorate the occasion. (f.l.t.r.: Philippe Collard, General Manager Operations at ICO Terminals; Pieter Vuylsteke, Director at Liebherr-Belgium; Henning Jaenisch, Sales Manager Mobile Harbour Cranes at Liebherr Rostock)



Bend the laws of size, strength and speed.

In mining and materials handling, the Hägglunds Quantum Power motor reshapes reality with shared DNA. Adding a slim new connection block to the proven Hägglunds Quantum, it opens up an unthinkable space – stretching to 170 rpm while retaining full torque capacity at high efficiency. For belt conveyors, crushers, sizers, surface miners and more, it's time to enter the Quantum domain: www.hagglunds.com/quantum

Hägglunds is a brand of Rexroth.
www.hagglunds.com

HÄGGLUNDS 

100 years of passion for performance at Nemag

GRIPPED BY INNOVATION

This year, Nemag, a renowned international expert in the design and construction of four-rope mechanical grabs and rope connection systems, celebrates its 100th anniversary. “Our drive to keep improving is deeply embedded in our DNA.”

“Together with our customers, we strive to improve their bulk handling a little more each day.” This is, in a nutshell, what sets Nemag apart, says Martine Dekker-Grootveld, co-owner and account manager at the Netherlands-based leading designer and manufacturer of the world’s most efficient dry bulk grabs. “We always ask ourselves: how can we do better?”

This attitude is emblematic of Nemag, which is also known for its rope pear sockets and quick release links, providing the fastest and safest rope connection systems. The 100-year-old family business from Zierikzee, a town in Zeeland near the ports of Rotterdam and Antwerp, is recognized not only for its high-quality standards but also for its warm, long-lasting customer relationships. “We continuously evaluate customer feedback and experiences,” says Dekker-Grootveld. “This helps us better understand how to further improve the performance of our grabs.” The importance of this cannot be overstated. “With the right grab, you can increase efficiency, becoming more productive at lower costs.”



FROM IDEA TO PRACTICE

The drive to enhance performance is exemplified by the collaboration with SMT Shipping (see ‘From challenge to conquest: SMT Shipping’s journey to a 25% productivity boost using the NemaX grab’ on p15 of this issue). It is also evident in partnerships with research institutions and universities. Long-term studies involving research and testing in both laboratories and the field have been providing valuable knowledge for Nemag’s own products, as well as for existing and new customers. Ever more often, Nemag is regarded as a knowledge center, offering advice on streamlining logistics processes.

Niels de Vries, who graduated from the renowned Delft University of Technology with simulation models on the interaction between cranes and grabs, is proud of the mutual collaboration. “The lead time from idea to practice is really short here,” he says. “We can quickly see the tangible result of creativity.”

According to de Vries, this is because

the office and factory hall have traditionally been near to each other. In recent years, when a new ultra-modern office was built for Nemag, the architect ensured that the design encourages seamless collaboration between colleagues, fostering a strong team spirit. “Contact between office and production is very close,” Dekker-Grootveld says, “so as a team, we can respond and adapt very quickly.”

LOOKING AHEAD

Much has changed since Abraham Grootveld laid the foundation in 1924 for the international company that Nemag is today. Initially, he repaired everything from tools to stoves. Due to the proximity of the port of Rotterdam, he focused more on machine construction. While repairing grabs, ‘Bram’ noticed inefficiencies, so he started to tinker and see how grabs could offer a better balance between weight and grabbing capacity — work that he would continue to refine.

Since those early years, transportation has not stood still. However, Nemag’s pursuit of continuous improvement in dry bulk handling remains unchanged. The team maintains close contact with terminals and crane builders worldwide to provide tailored solutions for their specific needs.

Says Dekker-Grootveld, a granddaughter of the founder: “Nemag has come a long way by always looking ahead. We feel an obligation to respond to new challenges in our field.” Now, as the modern family business is led by the third generation, the focus is still on the future. “Our drive to keep improving,” she knows, “is deeply embedded in our DNA.”





Bedeschi shiploader for
grains and oilseeds with
**loading capacity of 80.000
bushels/h (2200 tons/h)** on
vessels up to **120.000 DWT**.

Since 1908, taking the best from the past
to build a better future.

bedeschi.com



New Herjimar eco-hopper for TMC

Terminal Marítima de Cartagena, which operates at the Spanish Mediterranean Port of Cartagena, has acquired a semi-ecological smart hopper to improve the unloading of dry bulk consignments. The hopper was built specifically for TMC by Herjimar for deployment at the terminal the operator has at Escombreras.

The unit, which was built in four months, cost €400,000, and incorporates specific integrated technological equipment that, by combining the action of specific filters for dust collection with a complementary highly watertight seal, prevents or greatly minimizes the emission of polluting particles when materials are unloaded into the hopper. The hopper effectively retains a large part of the volatile particles generated during unloading, avoiding clouds of dust and other harmful particles that would otherwise escape into the atmosphere.

Barry Cross

Klasco receives powerful new E-Crane

Klasco, one of the largest stevedoring companies in the Baltic States, recently installed a brand-new E-Crane at one of its scrap terminals. This powerful crane, with a 42-metre reach and energy-efficient 450kW electromotor, is built to handle heavy loads like a pro.

"Klasco was looking for a new crane at their scrap terminal in Klaipeda," explains Hans Kraaij, Area Sales Manager (Europe), E-Crane International Europe BV, "and they heard some positive feed back from other customers. They invited us to make an offer, and after visiting some clients in Europe, they were convinced the E-Crane was the best solution for them."

Klasco's decision to purchase the 1800C Series E-Crane was influenced by the E-Crane's TCO (total cost of ownership), reliability and the fact that the crane is easier to operate, compared to its rope cranes.

As the available power on the quay is 400V, the low energy consumption, due to the balance principle, is also a huge advantage.

With its reliability and low energy consumption, the 1800C Series E-Crane is ready to take on the toughest jobs while keeping

costs down. Another win for Klasco and for smart, sustainable operations.

The new E-Crane will mainly be handling scrap, but other bulk material can also be handled, as E-Crane has also supplied a clamshell grab for heavy bulk material.

The order was placed in March 2023 and the E-Crane was operational in August 2024. Commenting on the installation, Kraaij said, "The complete process of installation went smoothly, also thanks to the cooperation of Klasco, and after training of the staff [operators and maintenance], the crane is now in full swing."



Klasco's new E-Crane has a 42-metre reach and energy-efficient 450kW electromotor.

First LPS 600 in Germany

Brake Port, handling over seven million tonnes of cargo annually, has just welcomed the LPS 600. This new addition will streamline the handling of grain, animal feed, and pulp, and general cargo like wood boards and scrap metal, significantly boosting operational efficiency.

boosts logistics for
J. MÜLLER



- ❖ The Liebherr portal slewing crane of type LPS 600, the first of its kind in Germany, is set to enhance bulk and general cargo operations at the port of Brake, which handles 1,924 ship calls and 7.1 million metric tonnes of a wide range of goods annually on the water side.
 - ❖ J. MÜLLER Weser GmbH & Co. KG, founded in 1821, is renowned in Northern Germany for its provision of seaport logistics for agricultural, bulk and mass-produced goods.
 - ❖ This project marks the first rail-mounted portal crane at the port of Brake, designed for an extended 650-metre travel path in one direction, with unique features like larger cable drum, video monitoring at the portal, and much more.
- The LPS 600 features a 61-metre boom, a motorized grab control and an e-drive that ensures optimal handling performance. The

crane is designed for a total travel distance of 650 metres in one direction and therefore has an extra-large cable drum. A curve-going chassis with various pivot points has also been installed so that the crane can travel on winding roads and thus reach more areas of the harbour effectively. Special seals on the wheels have been installed as flood protection. The seaport of Brake is located 26 kilometres upstream from the Weser delta. It has modern transshipment facilities, silo facilities and warehouses along a 2.5-kilometre-long quay and a total of seven berths for large ships.

In order to remain ahead of its time, J. MÜLLER Weser GmbH & Co. KG has received the first LPS 600 in Germany, setting a new standard in cargo handling logistics at the port of Brake. The crane meets all the requirements for handling the wide range of bulk goods and dry bulk that

are handled in large quantities at the port of Brake. It is equipped with advanced functions such as an electric drive, a motorized grab and much more, and is designed to increase the efficiency of bulk and general cargo handling in the port. The use of a largely closed grab reduces emissions when handling dusty dry bulk such as grain and animal feed. Under ideal conditions, up to 1,000 tonnes of dry bulk can be handled per hour. The crane can also be used to efficiently handle unitized cargo such as pulp, timber, steel, wind turbines and project cargo. The crane's reach also allows direct ship-to-ship handling. These factors help to maintain and further expand the port's economic importance for the region.

THE NEXT CHAPTER IN OVER 200 YEARS OF PORT SERVICES

The LPS 600 is designed to meet the high,

With its impressive 61-metre boom and dual 72-tonne winches, the LPS 600 will strengthen logistical capacity at Brake Port. The crane's motorized grab control and performant e-drive ensure optimal load handling, enhancing overall efficiency.



specialized demands of bulk and dry bulk handling, offering reliable performance and increased productivity. The e-drive reduces CO₂ emissions and energy costs, meeting J. MÜLLER's environmental and economic sustainability requirements. In addition, the new cab of the LPS 600 improves operator comfort and safety and reflects the company's commitment to social responsibility.

J. MÜLLER was founded in 1821 and has been family-owned ever since. The company operates its own seaport terminals in Brake and Bremen for the transshipment and seaport logistics of dry bulk and breakbulk of various sizes. The storage capacity in Brake is around 1.2 mt (million tonnes), including up to 600,000 tonnes of bulk goods in silos and warehouses and a further 600,000 tonnes of general cargo in covered and open storage areas. The company has the largest continuous silo facility in Europe and can unload 20,000 tonnes of agricultural goods every day.

"Our investment in the LPS 600 will

significantly improve our handling performance for dry bulk materials such as grain, feed, scrap, minerals, and for general cargo such as iron and steel, project cargo, wind turbines, wood, and pulp. The aim is to ensure smoother and more efficient operation and ultimately to increase throughput," says Jens Ripken, Managing Director of J. MÜLLER Weser GmbH. "We are confident that this crane will not only meet our current requirements, but will also support our future growth and expansion plans while meeting our sustainability goals. Liebherr's commitment to innovation and customer satisfaction is evident in every aspect of this project."

The LPS 600 is the first rail-mounted portal crane in the port of Brake. The crane's special features include an oversized cable drum and a curved chassis with various pivot points and special seals on the wheels, which ensure improved mobility and better flood protection.

Other special features include customized painting in the J. MÜLLER corporate design and video monitoring at

the portal, which is not part of the standard equipment.

LIEBHERR'S COMMITMENT TO INNOVATION AND SERVICE

The teams from both companies, including technical and operational experts as well as experienced crane operators, worked closely together to ensure that the crane meets the specific requirements of the seaport of Brake. The result of this successful collaboration is a crane that is not only the most powerful of its kind in Germany, but is also perfectly tailored to the needs of the port. "We are proud to deliver the LPS 600 to J. MÜLLER. This crane is an example of our commitment to innovation and customer satisfaction," says Eric Hein, Sales Manager at Liebherr Rostock.

From its early days to its current position as a leading company in maritime logistics, J. MÜLLER has always sought innovative ways forward. This latest expansion is another milestone on this journey and paves the way for future success.

ABOUT J. MÜLLER WESER GMBH & Co. KG

The J. MÜLLER group specializes in the operation of seaport terminals and associated port and shipping-related services. The regional focus is on northern Germany, in particular the Lower Weser region, where the group operates its own seaport terminals in Brake and Bremen. The medium-sized family business, now in its sixth generation, was founded in 1821 in Brake and has the largest connected silo facility in Europe at its location in Brake.

J. MÜLLER is a reliable partner for handling, storage and processing a wide range of agricultural goods. J. MÜLLER is also a leader on the German North Sea coast when it comes to general cargo. Whether it's pulp and sawn timber, iron and steel or even complete wind power and industrial plants.

With its state-of-the-art handling and storage facilities, extensive space and specialized equipment, J. MÜLLER is optimally equipped for the fast and efficient movement of all breakbulk goods. Spacious, multifunctional warehouses also

enable quayside storage that is close to the port and not dependent on the weather.

J. MÜLLER has its own fleet of inland waterway vessels and operates joint venture companies with renowned partners in the areas of truck logistics (B-LOG) and European inland waterway shipping (MÜLLER & Oorburg Logistics). The group's operating business is carried out by J.MÜLLER Weser GmbH & Co. KG. The company currently employs 554 people at its locations in Brake and Bremen, including 41 apprentices (as of June 2024).

Cargo handling and freighting services in 2023 at the Brake and Bremen locations:

- ❖ 6.3mt of general and bulk cargo; and
- ❖ annual turnover in 2023: approximately €150 million.

ABOUT LIEBHERR-MCCtec ROSTOCK GMBH

Liebherr-MCCtec Rostock GmbH is a prominent European manufacturer of maritime handling solutions. The product range includes ship, mobile harbour and offshore cranes. Reach stackers and

components for container cranes are also included in the product portfolio.

ABOUT THE LIEBHERR GROUP – 75 YEARS OF MOVING FORWARD

The Liebherr Group is a family-run technology company with a highly diversified product programme. The company is one of the largest construction equipment manufacturers in the world. It also provides high-quality, user-oriented products and services in a wide range of other areas.

The Liebherr Group includes over 150 companies across all continents. In 2023, it employed more than 50,000 staff and achieved combined revenues of over €14 billion. Liebherr was founded by Hans Liebherr in 1949 in the southern German town of Kirchdorf an der Iller. Since then, the employees have been pursuing the goal of achieving continuous technological innovation, and bringing high-quality solutions to its customers. Under the slogan '75 years of moving forward', the Group celebrates its 75th anniversary in 2024.

DCi

Recently delivered aboard vessel Jubilee, the LPS 600 is now undergoing commissioning at Brake Port. It is set up for a 650-metre travel path in one direction and includes specialized flood protection.





**YOU'RE ALREADY
DOING ALL THE
HEAVY LIFTING.**

Now let's tell the world.

DCi

To find out how you can benefit from advertising in the world's only monthly dry bulk publication contact [Andrew Hucker-Brown](#) on:
T: +27 31 583 4360 E: info@dc-int.com W: www.drycargomag.com

Keeping shipshape...

... with high-tech bulk loading systems



Louise Dodds-Ely

Vigan stays ahead of the game with constant innovation

As a prominent player in the bulk handling market, Vigan continues to innovate and provide high-performance equipment that meets the evolving needs of the industry. The company's commitment to excellence is reflected in its diverse range of products, ability to handle various commodities, and dedication to staying competitive through continuous improvement and technological advancements.

Vigan, based in Nivelles, Belgium, and a member of the VAN DE WIELE Group, specializes in the design and manufacture of advanced bulk handling equipment. The product lineup includes ship-unloaders, loaders, and mobile pneumatic conveyors. These systems are engineered for efficiency, reliability, and versatility, making

them ideal for a wide range of applications in the bulk handling sector.

Vigan's equipment is capable of handling a broad spectrum of bulk commodities. This includes grains, cereals, oilseeds, and other agricultural products. Additionally, the systems are designed to manage fertilizers, chemicals, and other dry bulk materials, ensuring that the diverse needs of clients are met.

Vigan serves a global clientele, including major agricultural co-operatives, port authorities, and industrial companies. The company's reputation for delivering high-quality, reliable equipment has made it a trusted partner in the bulk handling industry. With over 1,500 machines operating worldwide and more than 55

years of experience, Vigan's equipment can be found in numerous ports and terminals, enabling efficient transfer of bulk commodities from land to vessels and vice versa.

To maintain its competitive edge, Vigan invests heavily in research and development. The company focuses on enhancing the efficiency, safety, and environmental sustainability of its equipment. Recent innovations include the use of advanced alloys for improved durability, smart electronics to reduce power consumption, and upgraded operator cabins for better ergonomics and visibility. This commitment to innovation ensures that Vigan remains at the forefront of the industry.



Vigan's shiploaders are renowned for their robust construction, advanced automation features, and high loading rates, allowing for swift and cost-effective cargo handling operations. These loaders are designed to handle up to 2,000 tonnes per hour for various products. The company offers a variety of technical solutions to accommodate different site configurations, vessel sizes, and operational requirements. Key features include dust management

systems, customized boom lengths, and various loading spout types to ensure efficient and dust-free loading operations.

Furthermore, Vigan focuses on providing tailored solutions to their clients. Instead of pushing a standard machine, Vigan works closely with customers to understand their specific requirements, ensuring that their equipment is customized to meet individual needs. This customer-centric approach has been instrumental in building long-term

relationships with clients and maintaining a competitive edge in the market.

Founded in the early 1960s, Vigan has grown into a globally recognized brand in the bulk loading industry. The company's headquarters and factory are located in Nivelles, Belgium, and it has a global presence with offices and service centres in key regions around the world. Vigan's team of experts is dedicated to providing exceptional customer service and support,





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

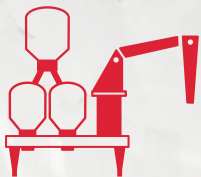
Turnkey solutions for cereals, soy flour, fertilizer, pellets and more...





The answer to your bulk handling questions

Ship unloaders



Road mobile ship unloaders



Storage & reclaim



Convey units



Truck loading



Ship loaders





ensuring optimal performance and satisfaction for clients.

The global grain industry faces several challenges, including climate change, geopolitical tensions, and rising energy costs. Vigan addresses these issues by designing equipment that minimizes energy consumption, ensures reliability and quick serviceability, and complies with stringent environmental regulations. The systems are equipped with advanced filters to maintain dust emissions below industry standards and are designed for ease of operation and maintenance.

The war in Ukraine has significantly impacted Vigan's operations, particularly in terms of market access and geopolitical risks. However, this situation has also opened up new opportunities in neighbouring countries around the Black Sea. By adapting its strategies to meet the needs of these emerging markets, Vigan has been able to maintain a presence in Eastern Europe and continue to support grain handling operations in these critical areas.

CONCLUSION

Vigan remains committed to providing innovative and reliable bulk handling solutions that meet the needs of its clients. The company's focus on research and development, combined with its dedication to customer service, ensures that it continues to lead the way in the bulk handling market. By focusing on research and development, tailoring solutions to customer needs, securing significant contracts, and embracing technological advancements, Vigan remains competitive in the market and continues to shape the future of bulk loading technologies.

LISTENOW
VERLADESYSTEME FÜR SCHÜTTGÜTER

Replacement loading hoses
+49 7152 50900

LOADING SYSTEMS LOADING HOSES COMPONENTS TECHNICAL SEWING

Loading Systems for Bulk Material

Quality since more than 50 years

For over 50 years, our loading systems for bulk materials have been synonymous around the world with long-lasting and reliable technology.

- › Bulk loading systems for open and closed loading
- › Loading with no segregation e.g. with **FLOW-STOP** technology
- › Dust-free loading
- › High quality loading hoses e.g. made in wear-resistant **PU-FLEX**
- › Positioning system **LIS-POS**
- › **First-class service:** Start-up and installation, Revision and repair services, System maintenance, modernisation and upgrading

More details: www.listenow.com

LISTENOW GmbH & Co • Dieselstrasse 21 • 71277 Rutesheim • Germany
 ☎ +49 7152 50900 ✉ listenow@listenow.com 🌐 www.listenow.com

DUST FREE LOADING



Leading the way with innovative dust free loading solutions for rail, ship, and barge loading of bulk materials at terminals and port facilities throughout the world.



**PROUDLY
MADE IN
THE U.S.A.**



DUST CONTROL AND LOADING SYSTEMS, INC.

08660 ANCE ROAD • CHARLEVOIX, MI 49720 • USA • 231-547-5600 • WWW.DCLINC.COM

Bulk cargo vessel loading with Mobile Conveying Services Pty Ltd

Bulk vessel loading plays a crucial role in global trade, enabling the efficient transfer of large quantities of cargo from land to sea. The use of specialized equipment, such as MCS mobile truck unloaders and conveyors, has revolutionized this process by significantly boosting productivity. Bulk conveyor systems allow loading rates of up to 1,000 tonnes per hour. This enhanced efficiency ensures that ports can maintain high throughput, critical for industries relying on timely exports.

Mobile Conveying Services Pty Ltd (MCS) is a private Australian company established in 2007 based in Brisbane and is at the forefront of the bulk materials handling industry providing specialized equipment, skilled labour and management to a wide range of customers. MCS has built its business around the supply of mobile conveying equipment and Telebelts, owning and operating a substantial fleet both domestically in Australia and to regions in the Pacific.

A variety of bulk cargoes have been handled using MCS mobile systems including iron ore, coal, silica sand, wood chips, wood pellets, fertilizers, grain and other minerals. These materials are vital to



Vessel loading operation (grain) with environmentally controlled covered dual lane truck unloader system and fully enclosed transfer and telescopic conveyors.

numerous sectors, and efficient handling systems ensure that they can reach international markets without delay.

MCS have supplied services to numerous customers including Rio Tinto, BlueScope, Hansons, Ballance, South32, Riordan Grain.

Vessel loading can consist of a comprehensive operational platform including mobile truck unloaders, transfer conveyors, and radial telescopic conveyors. These units allow for seamless co-ordination, leading to a highly productive and successful bulk vessel loading operation. The adaptability of MCS

equipment ensures that even in challenging environments, such as remote or narrow port berths, high-efficiency loading can be achieved.

Bulk vessel loading, supported by advanced conveyor systems, not only enhances operational capabilities but also provides cost-effective solutions for industries looking to streamline their export processes. By maximizing loading speeds and minimizing logistical bottlenecks, companies can remain competitive in the global market while ensuring reliable and timely delivery of essential bulk materials.



Rope-, Motor- and Hydraulic Grabs
Our experience - Your advantage

**Customized
Persistent
Reliable**



**Proficient
Expeditious
Comprehensive**



Zone 1, 21, 2, 22

MRS Greifer GmbH

Talweg 15 - 17 - 74921 Helmstadt - Germany

Tel.: +49 7263-9129 0 - Fax.: +49 7263-9129 12

export@mrs-greifer.de - www.mrs-greifer.de

**MRS
GREIFER**

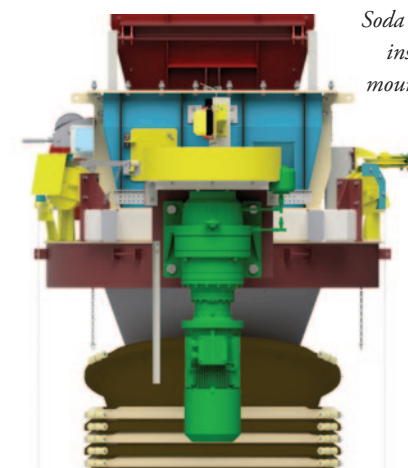
Cleveland Cascades: providing reliable, robust bulk loading solutions since 1992

INTRODUCTION

Cleveland Cascades Ltd located in Thornaby, UK, has been operating since 1992 and has developed the Cascade Chute System for over three decades. At present Cleveland Cascades has over recently reached its chute reference number 1,000 within 2024 sales.

The cascade chute is a specialist loading system designed to control the flow of bulk materials. This is achieved through mass flow, this is a single stream of material moving in high volume at very low velocity through the chute. Mass flow reduces the liberation of dust and the low velocity down the cascade virtually eliminates the movement of dust-laden air within the surrounding shroud. The shroud is fitted to the outer of the cascade chute and eliminates the adverse effects of side winds.

The cascade system is designed to control, limit and contain the dust created



Soda ash loading system for installation on a rail-mounted shiploader in the Netherlands.



whilst loading bulk materials. The Cleveland Cascades systems are also designed to protect product quality by minimizing product degradation through the promotion of mass material flow as described above.



Truck loading system destined for Nigeria to load urea.

PROBLEM

Bulk loading presents a major challenge in that material is often required to travel a significant distance from a conveyor system often at heights of 20 metres or more to the base of a vessel, storage silo or in smaller applications to a vehicle.

Factors such as material degradation, dust control, large volumetric requirements and clean material distribution are all considerations when designing systems to work effectively for bulk loading.

If material is degraded it may lose value or be no longer fit for use. If there are large amounts of dust created during

loading of a material there may be significant environmental impacts and associated penalties. Also, when considering the loading of bulk materials there must be a cost consideration in relation to the time and manpower involved in order to achieve the desired quantity of materials loaded.

SOLUTION(s)

The cascade solution overcomes these problems collectively. By directing the material flow through a series of inclined cones, this limits the flow velocity of the material to a controlled speed. The shape of the cone holds dry bulk in such a way that it prevents particle separation and minimizes material degradation.

The significantly reduced material velocity that creates a 'mass flow' effect as described above allows the material to flow onto a stockpile with minimized segregation.

Through the use of the cascade technology, dust generation can be practically eliminated at source without the requirement for high-cost, high-maintenance dust extraction systems. The Cascade systems have been proven to reduce dust emission levels to as little as $5\text{mg}/\text{m}^3$.

The requirement for bulk loading is both global and wide ranging in terms of the materials to be handled. Materials with bulk loading requirements the Cascade System has handled include; aggregates & building products; alumina; bentonite; china clay and kaolin; cement products; solid fuels; fertilizers; grains and foodstuffs; iron and steel production materials; non-ferrous metal compounds; phosphates; potash; sulphates; sulphur; and urea and ammonia.

In order to load each of the materials effectively and in a timely manner, given the climate or specific application requirements, there are additions to the cascade systems that can be installed based on the particular needs.

RECENT PROJECTS WON IN 2024

SODA ASH LOADING SYSTEM TO BE SUPPLIED TO THE NETHERLANDS

This loading system which is currently in production will be installed to a rail-mounted shiploader situated in the Netherlands.

Measuring from the interface of the loading chute to the base of the skirted outlet, the system is capable of extending to 26m long. Utilizing the head chute-mounted winch hoist system, it is possible to achieve a retracted operational length of 6m; this can be further reduced to 5.7m when the system is non-operational.

Taking into account the required loading capacity, a 1300 sized system is specified which will allow for volumetric loading rates of up to $1,400\text{m}^3/\text{hr}$.

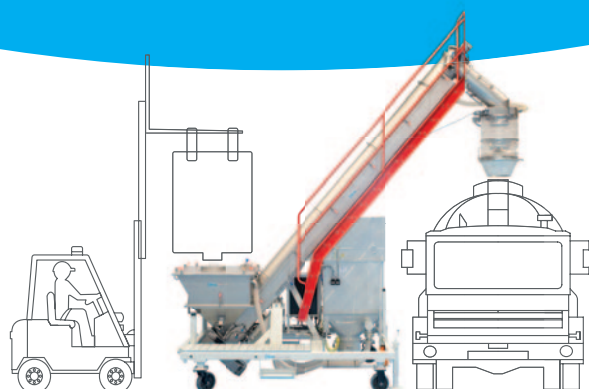
The in-house manufactured GRP cones are lined with UHMW PE wear liners which have a low coefficient of friction allowing the bulk material to pass freely through the system. This aids in promoting mass flow, a stream of material moving as a single mass as product is delivered through the cones ensuring that fugitive dust emissions are kept to a minimum during loading operations.

Also included in the supply is a full suite of electrical components for system safety and automation which is to be integrated with the shiploader PLC control system.



Truck loading system destined for Nigeria to load urea.

The best bulk truck loader in the world



Dino
BULK TRUCK LOADER
BY VAN BEEK

Deployed as the most effective way to load a truck with bulk goods.

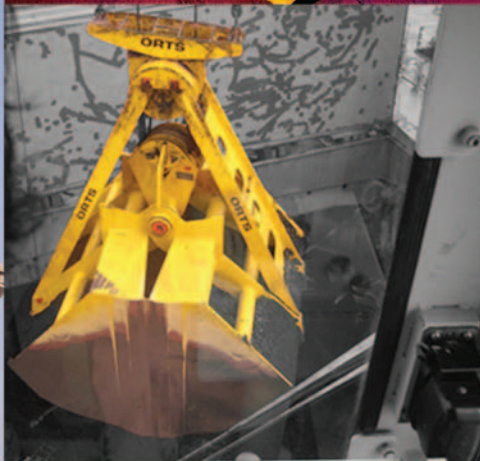
www.dinobulktruckloader.com

vanBeek
THE STANDARD IN SCREW CONVEYING

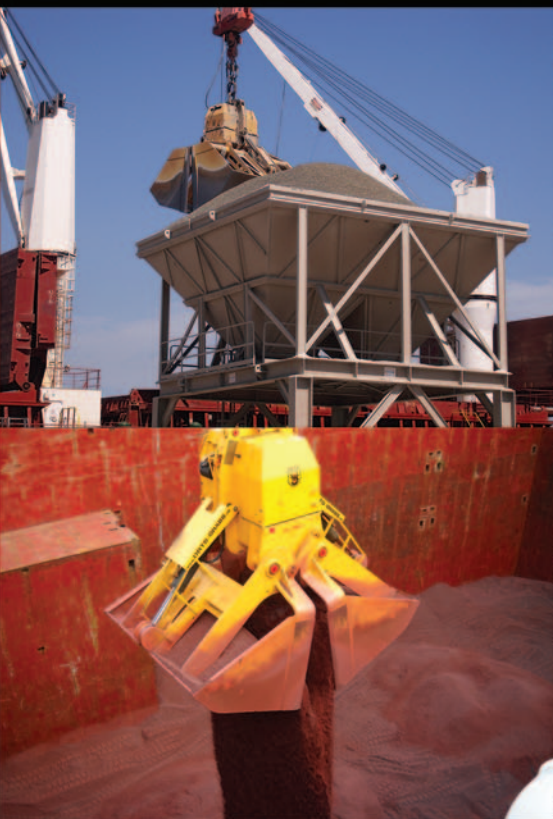
ORTS Grabs



made in Germany since **1972**



Tel: +49 451 398 850 Fax: +49 451 392 374 Email: soj@orts-gmbh.de



the best link between ship and shore



Nearby Lübeck, close to the Baltic Sea, you will find a specialist for grabs and handling equipment.

The grabs of ORTS GmbH Maschinenfabrik are in operation around the world, on all continents and all oceans.

ORTS Grabs 

Cleveland Cascades installed two identical road loader systems at the Port of Tyne, UK in August 2024.



Some rendered images of the finalized CAD model can be seen on p54.

FOUR IDENTICAL SYSTEMS TO BE SUPPLIED TO LOAD UREA INTO OPEN TRUCK VEHICLES IN NIGERIA

These systems will be designed to load granular urea at up to 220tph (tonnes per hour). These will be Cleveland Cascades' 650 sized system that will include the company's cones manufactured from stainless steel to handle the corrosive nature of the material.

The chutes will each be 5.16 metres at full extension suspended from a fixed head chute via chains for the steel cone arrangement. The retracted height is expected to be approximately 2.18m.

The steelwork will be painted to a marine specification for corrosion protection.

Each chute will be fitted with a skirt

outlet for dust suppression along with a suite of electrical components for safety and automation including collision detection, load sensing, position and limit and well as material detection, all of which are linked with the shiploader PLC for control and automation.

TWO IDENTICAL ROAD LOADER SYSTEMS INSTALLED AT PORT OF TYNE, UK IN AUGUST 2024

Cleveland Cascades has supplied and installed two identical systems at the Port of Tyne, Newcastle UK.

These systems are for loading open truck loading for wood pellets and coal. These systems are designed to load at a speed of 500tph.

Both have been installed by works at the Port of Tyne, with support from Cleveland Cascades engineers.

The systems are 6.4 metres long from

interface to carrier outlet, and are suspended from a fixed head chute interface.

Each system is fitted with a locally mounted spool type hoist unit for extension and retraction. The systems each feature electrical components for safety and automation including: material detection; collision detection; and slack rope monitoring and upper limit identification. Since these systems are operating in a potentially explosive environment, the electrical components are ATEX rated for zone 20, 21, & 22 with a minimum IP65 ingress protection.

The head chute running faces are lined with Hardox and the cones lined with stainless steel for abrasion protection.

Each cascade is supplied with Cleveland Cascades' outer shroud and skirt outlet for dust suppression as standard.

NK TEHNOLOGIJA

custom engineering solutions



**Stationary
Ship Loaders**



Terminal Design



**Mobile
Ship Loaders**



Weigh Hoppers



Tilting Spreaders



Pelikan Jib Crane

BULK HANDLING EQUIPMENT

NK TEHNOLOGIJA

Dzelzavas 120 (block Z), Riga, LV-1021, Latvia

Office: +371 67271092 | avb@nkteh.com | nktech@nkteh.com

WWW.NKTEH.COM

You Tube youtube.com/@nktehnologija9559/

in linkedin.com/company/nk-tehnologija/

GENMA shiploaders: flexible and efficient to easily meet multi-scenario loading needs

Recently, RHM* successfully delivered a GENMA 1,000tph (tonnes per hour) shiploader. This unit was designed and built for an existing Indonesian client for use at its terminals. This shiploader is designed specifically for the transfer of palm shells and palm meal materials, injecting new vitality into the palm materials handling operations at the customer's terminals.

To achieve smooth and efficient material transportation, GENMA has carefully designed multiple key components, including a double tail truck, a shiploader relay belt conveyor system, an arm conveyor system, a chute device, and a throwing device. Among them, the GENMA shiploader chute device adopts a multi section sleeve form, with a telescopic distance of up to ten metres, which combines flexibility and adjustability, and can adapt to the efficient loading requirements of vessels varying in size from 8,000dwt to approximately 80,000dwt, at different tides.

In addition, GENMA engineers have also optimized the material throwing device and overall operation process of GENMA shiploaders to further improve loading efficiency.

THROWING BELT DESIGN: IMPROVING LOADING EFFICIENCY

The throwing belt is one of the key components of the GENMA shiploader. It can be used to quickly and accurately drop materials from the unloading port of the shiploader to the target position. The



GENMA shiploader's throwing belt has been carefully designed and has the following functions:

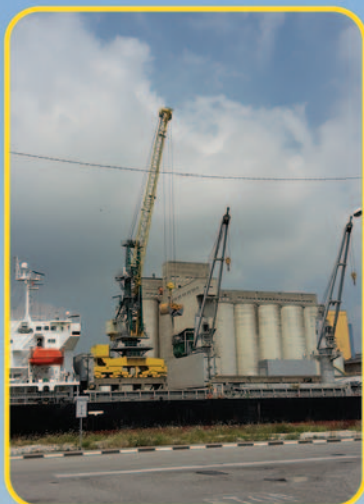
❖ **Simplified workflow:** traditional shiploaders are often limited by the feeding position and angle during the

*Nantong Rainbow Heavy Machineries Co., Ltd.



ITALGRU

PORT & OFFSHORE CRANES



www.italgru.com

Mobile Harbour Cranes ECO GREEN solution.

ITALGRU S.r.l

Strada Statale Briantea

4 - 24030 AMBIVERE (BG) - ITALY

Tel. +39 035 4932411 - Fax. +39 035 4932409

email: info@italgru.com

loading process, resulting in a relatively narrow operating range. The material throwing device of GENMA shiploader adopts a short belt design with 360° full rotation, which means it can easily throw materials in all directions. This comprehensive feeding capability ensures that materials can evenly cover a larger operating range, avoiding situations where there is too much or too little material in certain areas.

Furthermore, this design also enables the shiploader to cope with various complex loading scenarios, whether it is a large open dock or a small, irregular loading area, it can flexibly adapt without the need for excessive manual adjustment or

complex operations.

- ❖ **Improving loading efficiency:** the GENMA shiploader's throwing belt runs continuously at a rated speed of 15m/s, and can quickly and accurately deliver materials to the target position, ensuring fast loading of materials during transportation and further improving the overall operational efficiency of the equipment.

SIMULATION TECHNOLOGY AND OPTIMIZATION DESIGN: PRECISE CONTROL OF MATERIAL FLOW DIRECTION

In the product design process, GENMA product designers used simulation technology to accurately simulate and analyse the various components of the

shiploader. Through simulation and optimization of the design, GENMA shiploaders can achieve precise material flow control, ensuring efficient transportation of materials from the starting point to the loading compartment. This not only improves the production efficiency of loading operations, but also effectively reduces material waste, which can fully meet the needs of modern logistics industry for efficient operation.

The GENMA shiploader not only has the characteristics of flexibility, efficiency, stability, and precision in operation, but also has comprehensive functions, which can meet the loading and unloading needs of different sizes of bulk carriers and various types of bulk materials.



Merit Technologies India: wide product portfolio includes loading systems

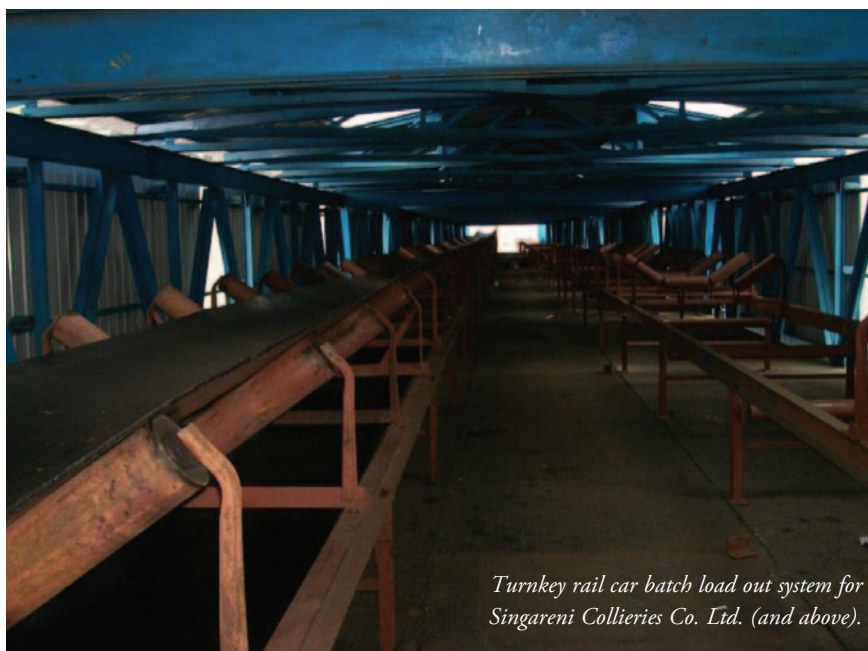


The Merit Group, established in 1997 is an ISO 9001: 2008-certified company. In India, it is renowned for batch load outs, rapid loading systems, in-motion rail cars and truck loading systems. The company headquarters and factories are located in Chennai, India.

Merit's products have gained a widespread reach and are exported to foreign countries such as Abu Dhabi, Bolivia, Canada, Indonesia, Kenya, Malawi, Mexico, Nepal, Nigeria, Sri Lanka, Tanzania, Uganda, and more.

The company now has the trust of many coal mining, power, EPC, port handling, railways, cement and oil refinery companies. These include, but are not limited to: Singareni Collieries; National Mineral Development Corporation (NMDC) Mahanadi Coal Fields; Bharat Coking Coal; Eastern Coal Fields; Northern Coal Fields; South Eastern Coal Fields; NTPC; Adani Enterprises; Reliance Industries; Heavy Engineering Corporation; Larsen & Toubro; Thyssenkrupp Industries; Sandvik Asia; Tecpro Systems; McNally Bharat Engineering Co, BTL EPC; Macmet Engineering Co; Isgec Heavy Engineering, IOCL; Nayara Energy; BPCL; MRPL; Bhilai Steel; JSW Steel; Walchand Nagar Industries; Sanghi Industries; ACC Cement; Dalmia Cement; Ultratech Cement Ltd; India Cements; Dheendrayal Port Trust; East Coast Railway; and South Central Railway.

Examples of Merit's loading technologies include:



Turnkey rail car batch load out system for Singareni Collieries Co. Ltd. (and above).

RAPID RAIL AND TRUCK LOADING SYSTEM

Description: turnkey rail car batch load out system — 2,400/3,600tph (tonnes per hour); approach conveyor gantry 1,200tph; steel silo & weigh hopper; civil & structural; hydraulic system; batch weighing; gates & loading chutes; and automation and control.

Customer: Singareni Collieries Co. Ltd. — Telangana — India

Location 1: Ramakrishnapuram — two sets -Year — 2006

Location 2: Srirampur project — two sets — Year — 2007

Location 3: Ramagundam OC III — one

set — year 2007

Location 4: KCHP Manuguru — one set — year 2008

Location 5: Ramagundam — GDKI — one set — year 2009

Location 6: Goleti — Bellampalli — under execution.

TELESCOPIC LOADING CHUTE/SPOUT FOR TRUCK/WAGON LOADING

Description: Telescopic loading chute/spout; heavy duty gates & control valves; dust extraction system; weigh bridge/batch weighing; automation and control.

Customers:

Alstom — Maxico (A/C FLSmidth) — two sets — year 2001

Sanghi Cement — Bhuj-Gujarat — nine sets — year 2001

Sail — W.B (A/C FLSmidth) — eight sets — year 2010

Dalmiia Cement — Umrangsu — four sets — year 2014

Uganda (A/C Surendra Engg.) — two sets — year 2007

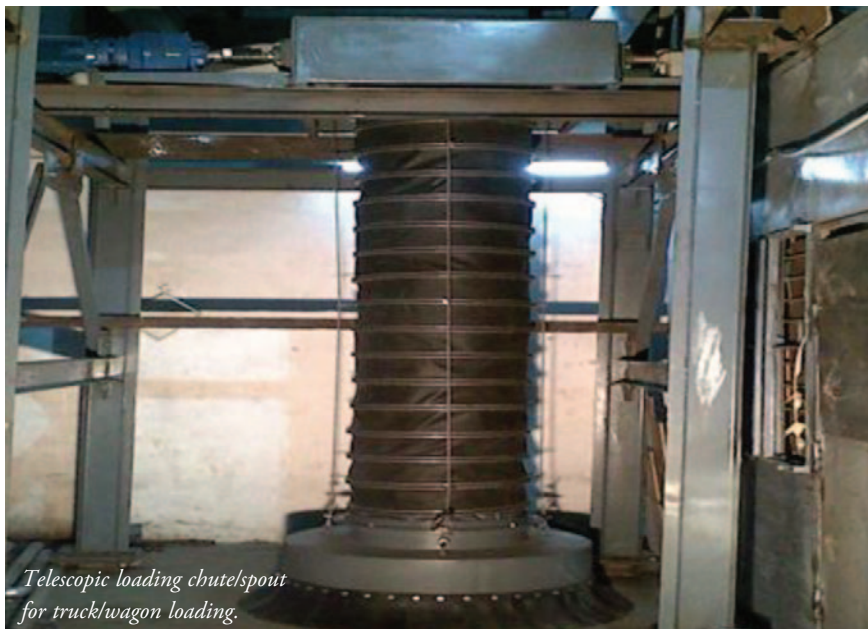
Nepal (A/C Chandrapur works) — two sets — year 2012

Sail (A/C Sapoorji Paloonji — eight sets — year 2012

OCL — Rajgangpur — Orissa — two sets — year 2008

TURNKEY CONTRACT FOR CONVEYING, STORAGE & TRAIN LOADING SYSTEM

Customer: Adani Enterprises Ltd. — Coal



Telescopic loading chute/spout for truck/wagon loading.

Turnkey contract for conveying, storage & truck loading system for APHMEI A/C Singareni Collieries Co Ltd.



& Mining — Gurgaon

Project: Parsa — Silo I

Project: Reconstruction of damaged 4,000t RCC silo, supply of all the equipment of rapid loading system and its accessories

Description: RCC Silo — 4,000T (reconstruction); rapid train loading system — 4,000tph; includes pre weigh hopper and hydraulic system; batch weighing; gates & loading chutes; and civil, electrical, automation and control.

Completed: 2022

Customer: Adani Enterprises Ltd.

— Coal & Mining — Gurgaon

Project: Parsa — Silo III

Design, engineering, supply, erection and commissioning of reclaim chain conveyor, conveyor 4,000tph, extension of 4,000tph conveyor, 2,000t storage silo and rapid train loading system on EPC basis at Adani Parsa Kante — Chhattishgarh — India — Silo III

Description: reclaim chain conveyor 1,250/1,375tph; 4,000/4,400tph, 145/105m length conveyor; extension of 4,000/4,500tph long-distance conveyor, by 70m; steel silo & structural — 2,000t; rapid train loading system 4,000tph; includes pre weigh hopper and hydraulic system; batch weighing; gates & loading chutes; and civil, electrical, automation and control.

Status: under construction.

TURNKEY CONTRACT FOR CONVEYING, STORAGE & TRAIN LOADING SYSTEM

Customer: Isgec Heavy Engineering Ltd. — Noida

Project: design, engineering, manufacture, supply, erection and commissioning of storage silo and rapid train loading system at Kalinga port — Paradip — Orissa

Description: steel silo 875t; rapid train loading system — 4,000tph; includes pre weigh hopper and hydraulic system; batch weighing; gates & loading chutes; electrical, automation and control.

Completed: 2021

Customer: Adani Enterprises Ltd. — Coal & Mining — Gurgaon

Project: Parsa — Silo II: Design, Engineering, Manufacture, Supply, Erection and commissioning of Conveying, Storage silo and Rapid Train Loading system at Adani Parsa Kante — Chhattishgarh — India.

Description: reversible conveyor 4,000tph, length 45m includes conveyor gantry, structural, drive unit, pulley, idlers, belting etc.; steel silo & structural — 2,000t; rapid train loading system — 4,000tph; includes pre weigh hopper and hydraulic system; batch weighing; gates &



loading chutes; electrical, automation and control.

Completed: 2021

TURNKEY CONTRACT FOR CONVEYING, STORAGE & TRUCK LOADING SYSTEM

Customer: APHMEI A/C Singareni Collieries Co Ltd.

Project: design, engineering, manufacture, supply, erection and commissioning of conveying, storage and rapid truck loading system at MNG OC, Manuguru area—Telangana — India.

Description: conveyor 1,200tph, length 110m, includes conveyor gantry, civil, structural and installation of drive unit, pulley, idlers, belting etc.; steel silo with civil & structural — 300t; pre weigh hopper; hydraulic system; batch weighing; gates & loading chutes; and electrical, automation and control.

Completed: 2019

TURNKEY CONTRACT FOR CONVEYING, STORAGE & TRAIN LOADING SYSTEM

Customer: Singareni Collieries Co Ltd.

Project: design, engineering, manufacture, supply, erection and commissioning of conveying, storage and rapid train loading system at Goleti Chp, Bellampelli Area — Telangana — India.

Description: conveyor 1,200tph, length 160m, includes conveyor gantry, civil, structural, drive unit, pulley, idlers, belting etc.; steel silo with civil & structural — 300t; rapid train loading system — 3,600tph; includes pre weigh hopper and hydraulic system; batch weighing; gates & loading chutes; electrical, automation and control.

Completed: 2018

TURNKEY CONTRACT FOR CONVEYING, STORAGE & TRUCK LOADING SYSTEM

Customer: APHMEI A/C Singareni Collieries Co Ltd.

Project: design, engineering, manufacture, supply, erection and commissioning of conveying, storage and rapid truck loading system at RKP OC, Mandamarri area — Telangana — India.

Description: conveyor 1,200tph, length 110m, includes conveyor gantry, civil, structural and installation of drive unit, pulley, idlers, belting etc.; steel silo with civil & structural — 120t; rapid truck loading system — 1,000tph; includes pre weigh hopper and hydraulic system; batch weighing; gates & loading chutes; electrical, automation and control.

Completed: 2017

If you're reading this....

...then so, very probably, are your customers!



To find out how you can benefit from advertising in the world's only monthly dry bulk publication contact Andrew Hucker-Brown on
T: +27 31 583 4360 **E:** +info@dc-int.com
W: www.drycargomag.com

SAMMI's loading expertise along the whole bulk handling chain

SAMMI s.r.l. specializes in the design and manufacturing of machines for bulk materials handling, providing complete systems and solutions in different fields. Over its almost 50 years of history, SAMMI has expanded its action and production sectors, by increasing and improving its human, managerial and technical skills.

SAMMI believes that "No barriers exist, only new challenges". This philosophy leads the way the company does business. Over the years, SAMMI has always tried to extend its target market, offering new specific services and facing new markets. In the globalized world, high product quality alone is no longer sufficient. Being dynamic, open and ready for every new challenges and opportunities is fundamental to remaining competitive in the market.

SAMMI offers technologically advanced equipment, several application fields, flexibility to adapt itself to most demanding customers. These are the main elements of SAMMI's strategy for being competitive in the complex, selective and extremely demanding sector of bulk handling industry. The company's aims are to: design, build and innovate. SAMMI invests constantly to offer solutions that anticipate the needs of its customers.

SAMMI has strong expertise in loading



SAMMI supplied the 750tph offshore conveyor belt system for transshipper Bulk Kremi with continuous shiploader.

systems and ancillary equipment, and has shared some of its projects, which have included conveying technologies, from the last decade with *Dry Cargo International*.

SHIPLOADING

Year: 2022

Location: Gabon

Description: offshore material (manganese-bauxite-iron ore-coal) handling and shiploading system for transshipper FTS Jeroboam (1,500–2,500tph [tonnes per hour] conveyor system capacity)

Customer: Norden

Year: 2020

Location: Rijeka, Croatia

Description: petcoke handling, storage and port shiploading for the new DCU at INA's refinery in Rijeka

Customer: Tecnimont KT

Year: 2011

Location: Indonesia

Description: 2,500tph (coal) offshore belt conveyor system for transshipper Bulk Sumatra

Customer: Coeclerici Group

Year: 2011

Location: Nantong, China

Description: offshore belt conveyor systems for transshipper Bulk Borneo, with a rated capacity of 2,000tph (coal)

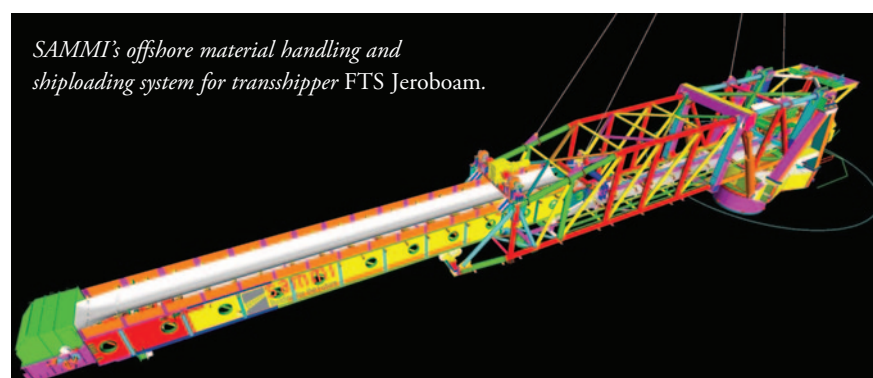
Customer: Coeclerici Group

Year: 2010

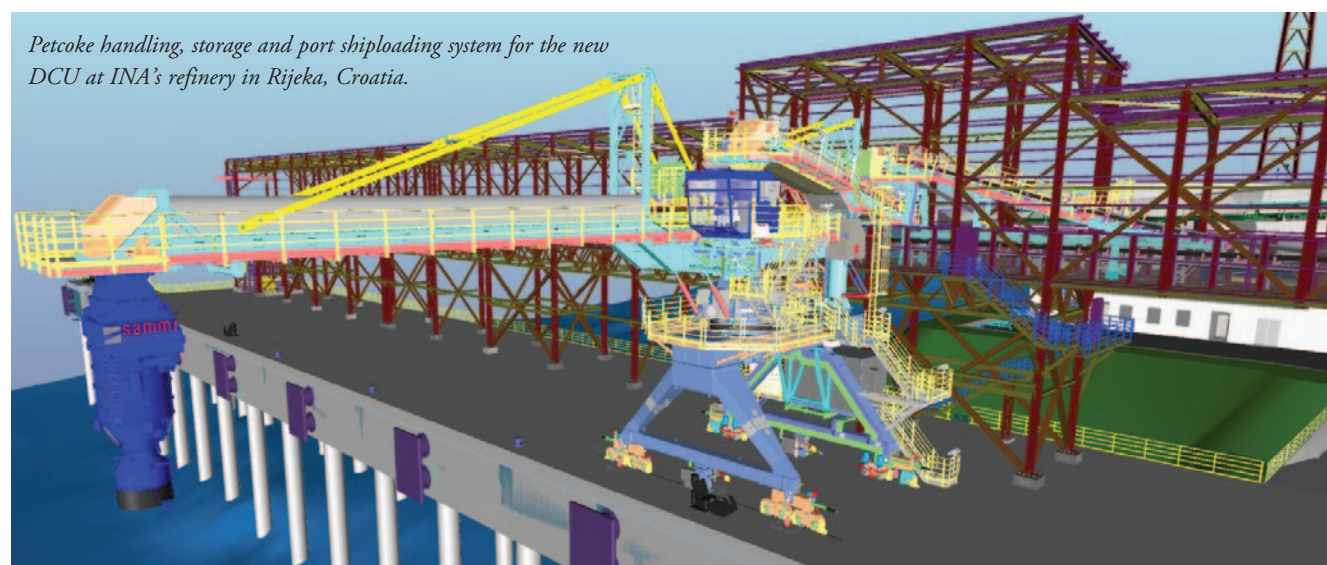
Location: Nantong, China

Description: 2,000tph (coal) conveyor belt system for transshipper Bulk Coal

Customer: Coeclerici Group



SAMMI's offshore material handling and shiploading system for transshipper FTS Jeroboam.



Petcoke handling, storage and port shiploading system for the new DCU at INA's refinery in Rijeka, Croatia.

SAMMI provided the offshore belt conveyor systems for transshipper Bulk Borneo.



Year: 2010

Location: Odessa, Ukraine

Description: 750tph offshore conveyor belt system for transshipper *Bulk Kremi* with continuous shiploader (crushed & prilled sulphur handling)

Customer: Coeclerici Group

Year: 2008

Location: China

Description: plant engineering for 2,000tph transshipper *Bulk Coal*

Customer: Coeclerici Group

Year: 2005

Location: Philippines, Indonesia

Description: fixed belts for 1,000tph transshipper *Bulk Pioneer*

Customer: Coeclerici Group

BIG-BAG LOADING

Year: 2018

Location: Le Palais-sur-Vienne, France

Description: Big-Bag unloading system and material transfer to turbine dissolvers for table ware raw material (micronized alumina)

Customer: Imerys Ceramics

Year: 2018

Location: Civita Castellana, Italy

Description: Big-Bag unloading system and material transfer to turbine dissolvers for sanitary ware raw material (kaolin, feldspar)

Customer: Imerys Ceramics

Year: 2015

Location: Gdansk, Poland

Description: petcoke handing, storage, reclaiming and truck loading system

Customer: Technimont KT

Year: 2007

Location: Brembilla (BG), Italy

Description: lime plant sifting and storage line and vehicle loading

Customer: Unicalce

BARGE LOADING

Year: 2014

Location: Tuen Mun, Hong Kong

Description: Radial stacker for muck/spoil removal storage on open area and barge loading system

Customer: Marti Technics

SILLO LOADING

Year: 2006

Location: Narni (TR), Italy

Description: sulphur silo loading plant line modification

Customer: SGL Group

PLANT LOADING

Year: 2006

Location: Terni, Italy

Description: drying plant loading and dosage system

Customer: ISRIM

Year: 2005

Location: Itri (LT), Italy

Description: lime loading plant on lorry, rated capacity 80tph

Customer: Unicalce

Year: 2004

Location: Terni, Italy

Description: biomass loading system to energy plant

Customer: TECNOCENTRO eng. Srl

Year: 2002

Location: Rome, Italy

Description: sand loading plant on lorry

Customer: SOGECA Srl



SAMMI's contracts include the fixed belts for 1,000tph transshipper Bulk Pioneer.

Fast and efficient loading technologies from Loibl



Loibl's shiploader at Mannheim's largest power plant.

Bulk handling equipment specialist Loibl offers conveyor systems as well as shiploading and unloading equipment for port handling. It provides efficient solutions that enable the smooth transportation of materials from the pier edge to the storage and point of use.

Loibl's high-performance loading and unloading equipment is specially developed for port handling. They can be used to transport large quantities of bulk goods quickly and safely. It also offers a wide range of conveying solutions that meet the individual requirements of each port. These include feed hoppers and hopper cars, chain conveyors, screw conveyors or belt conveyors that enable the continuous transfer of bulk goods over long distances.

Loibl's shiploading and unloading equipment enables fast and effective material transportation from the ship to the storage or point of use and vice versa. With state-of-the-art technology, Loibl can optimize the handling process to help increase the efficiency of bulk facilities.

Loibl's conveyors are robust and durable to withstand the demanding conditions of the port environment. The company also offers maintenance and support services to ensure that its equipment is always operating at its best.

FEED HOPPERS AND HOPPER CARS

Loibl offers all types of hopper cars. Whether mobile hoppers with their own drive, semi-mobile solutions coupled to another means of traction or stationary solutions, Loibl supplies customized hopper cars for every requirement. Its hopper cars are adapted to the bulk material, whether coarse or fine-grained, light or heavy. It can adapt the size and geometry of its charging and feed hoppers to all requirements and supply appropriate discharge technology.

Charging hoppers and hopper cars usually required for ship-unloading of bulk goods using an excavator or crane. They act as a link between an unloading device or excavator and the subsequent transportation solution for the bulk material. Belt, chain or pan conveyors are used as discharge devices.

Hopper cars can be equipped with additional solutions, including filter systems and dust retention systems or special mechanical constructions and other equipment.

SHIPLOADERS AND UNLOADERS

Every shiploader and unloader from Loibl is uniquely tailored according to the individual requirements. For conveying solutions, Loibl uses different mechanical

and pneumatic technologies which are suitably adapted to the local circumstances and products. The material handling is made as gentle as possible to prevent breakage and abrasion. This is how Loibl achieves best environmental conditions at maximum performance and optimal utilization of the available loading space.

Loibl provides systems which are suitable for the handling of dry and wet bulk materials. Depending on the requirements, its shiploaders and unloaders can be offered as stationary equipment or mobile on rails. They are ideal for the use under challenging climatic conditions. Besides the construction of loaders and unloaders, Loibl can also carry out the planning and manufacture of the steel structure, the electrical engineering, the control system and control rooms, the dust collection, the humidification and the rail construction.

The benefits of Loibl's shiploaders and unloaders include:

- ❖ modular design;
- ❖ low dust and low emission;
- ❖ good accessibility;
- ❖ easy operation;
- ❖ low noise conveying;
- ❖ construction acc. to ATEX Directives possible;

Green grain handling: smarter, cleaner, and on-the-go

Polimak's mobile big bag filling machines are transforming grain logistics with an efficient and sustainable solution. These systems allow for direct filling of grains into big bags at the source, eliminating the need for additional infrastructure and significantly reducing transportation emissions. Their mobility facilitates flexible operations, cutting fuel consumption and supporting net-zero carbon emission goals. By integrating these machines, industries can streamline grain handling while contributing to sustainability and enhancing efficiency across the agricultural and bulk materials sectors.



HOW DOES THIS INNOVATIVE SYSTEM WORK?

WHAT MAKES THIS SYSTEM A GAME-CHANGER FOR GRAIN INDUSTRIES?

These systems operate by vacuuming grain materials into the machine, which are then passed through a jet cyclone to separate air from the grain, ensuring dust-free operation. The controlled transfer via a rotary valve allows seamless filling into large bags. The mobile unit's ability to function directly on-site, whether in fields or processing plants, minimizes the need for additional infrastructure, making it an efficient and sustainable solution.

The closed-loop design also prevents contamination, enhancing material safety and minimizing waste through precise handling. The ability to package grain directly in the field eliminates the need for multiple handling stages, reducing the

carbon footprint. Moreover, the efficiency of this system reduces overall energy consumption by streamlining packaging operations in a single mobile unit.

OPTIMIZED FOR GRAIN MATERIAL HANDLING

Maintaining product integrity is crucial when handling grains like wheat, corn, and barley. These machines are engineered to prevent contamination, moisture, and breakage, ensuring high-quality output. Their design reduces the risk of grain damage while protecting against external contaminants.

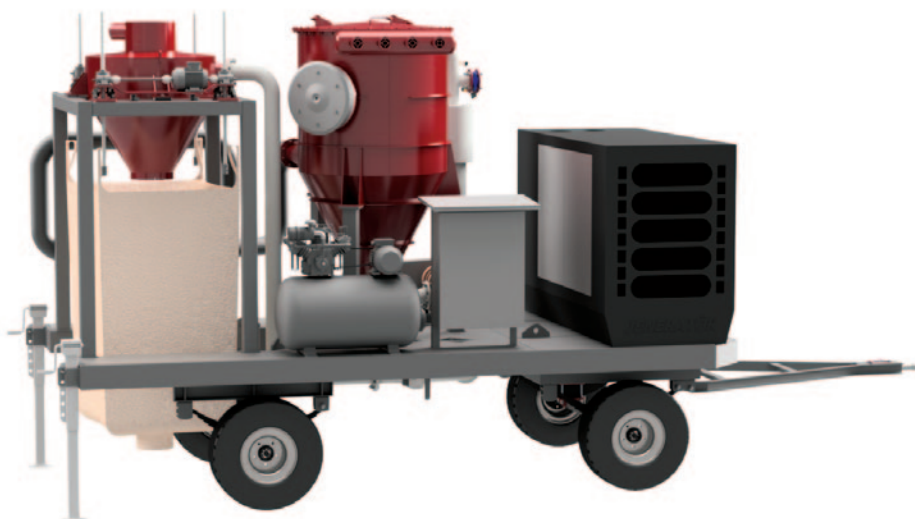
The system's mobility enables quick transitions between locations, allowing operators to fill multiple bags efficiently, minimizing downtime, and increasing

overall productivity.

A GAME-CHANGER FOR GRAIN HANDLING AND NET-ZERO GOALS

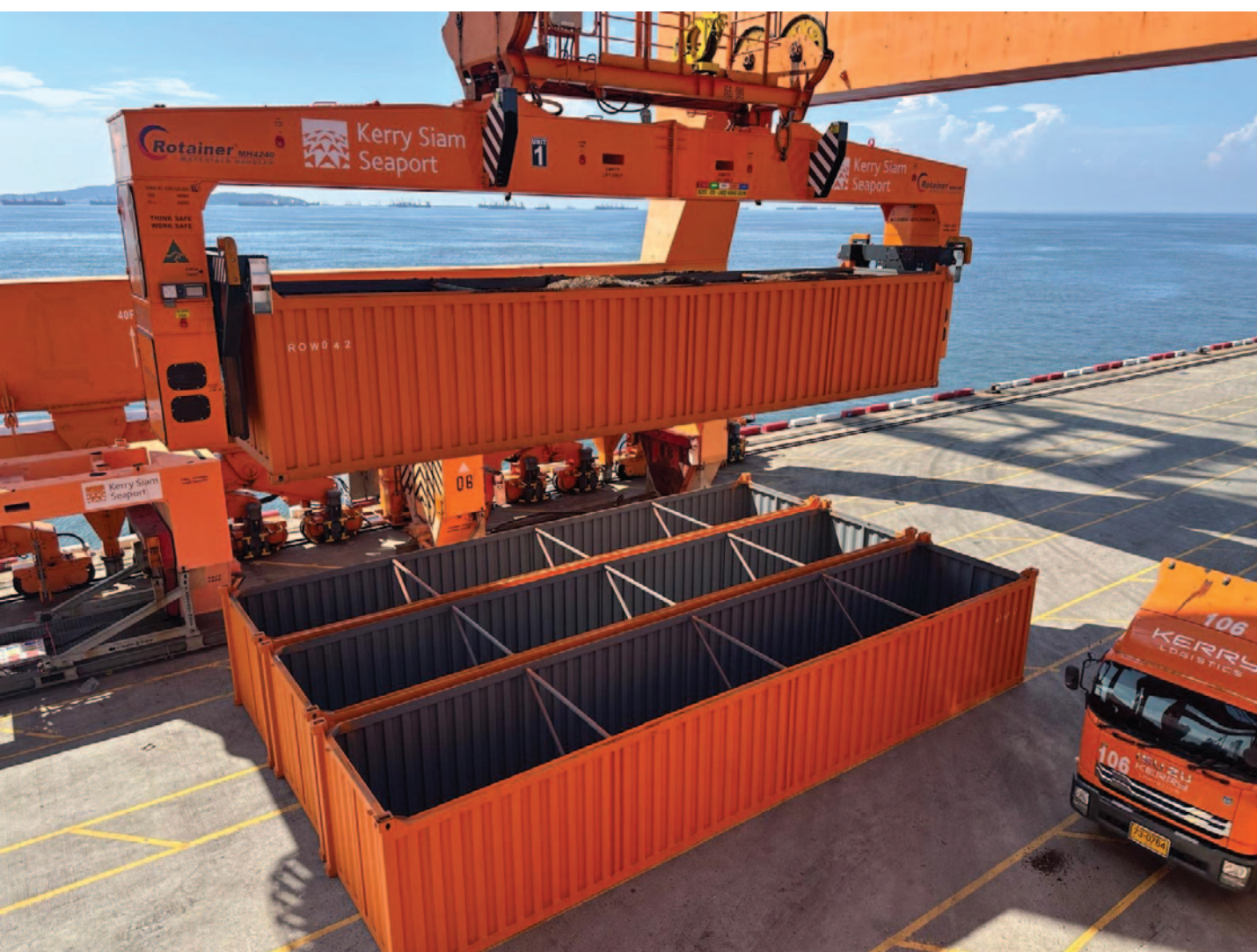
Polimak's mobile big bag filling machines offer great benefits, combining flexibility, efficiency, material integrity, and cost-effectiveness. Their transportable design allows easy adaptation to various environments, from fieldwork to industrial settings. Equipped with advanced vacuum technology, these machines ensure rapid and consistent filling, significantly optimizing time and labour. Additionally, the closed-loop system protects grains from contamination, guaranteeing high-quality output. By minimizing the need for fixed infrastructure, Polimak's solutions also lead to substantial savings on equipment and facility costs, making them an ultimate choice for efficient bulk handling.

In summary, Polimak's mobile big bag filling machines are redefining the grain handling industry. Their ability to efficiently fill large quantities of grain makes them indispensable for businesses looking to enhance productivity while maintaining quality. These machines align with net-zero targets by reducing energy use and carbon emissions. Their adaptability simplifies logistics, further supporting sustainable operations. As global demand for agricultural products grows, mobile big bag filling systems will become essential in modern grain logistics, ensuring that businesses remain competitive, efficient, and environmentally responsible.



Making light of biomass cargoes

handling equipment under scrutiny



A picture is worth a thousand words – another success for CRS

Australian company Container Rotation Systems (CRS) is renowned for its container-emptying system, which offers an efficient solution to the problem of unloading bulk from containers.

This is a concept that is gaining in popularity worldwide, and is in use internationally handling cargoes of vastly different properties, from alumina to coal.

CRS offers a range of customized

solutions — among these are its rotatable containers, which work alongside the Rotainer® range to offer optimum emptying of dry bulk cargoes including: coal, zinc, copper, mineral sands, aluminium, iron ore, sugar and grains.

ASSEMBLY OF ROTAINER EUROSPEC MH4240-360 COMES TOGETHER ON-SITE IS LESS THAN ONE DAY

In mid-September this year, the CRS

engineering team supervised a highly skilled team in Thailand during the assembly of its latest innovative, patent-pending 40ft container rotator. The MH4240 is a 40ft container Rotainer fresh from CRS's cutting-edge Sydney manufacturing facility. This innovative addition to the company's Rotainer line-up reflects 15 years of expertise, delivering top-notch container rotation capabilities for ship-to-shore cranes. Tailored to manage large quantities

of low-cost goods from shore-based stockpiles, the MH4240 boasts a modular, single-beam design that underscores CRS's dedication to advancing containerized bulk handling technology.

CRS is proud of this installation as is another one of its Rotainers supplied with the company's innovative second generation electrics specifically mated to CRS's new 360° multidirectional drive system for super fast discharge — a swift, 15-second rotation is possible. The unit is designed to cater to the biomass, woodchip and waste industry where large volumes of very light materials need to be handled fast and efficiently. This 40ft container rotator is a beast.

Further, this is another first for the containerized bulk handling industry as it will be fitted to a Sany STS crane. It ticks all the boxes, electric or diesel powered, as it fits reachstackers or STS cranes.

A picture is worth a thousand words and these pictures of the Rotainer Eurospec MH4240-360 during the installation and commissioning process clearly demonstrate the efficiency of the unit.

On the second day, the commissioning of CRS's latest addition to the Rotainer product portfolio was completed.

This innovative, patent pending 40ft container rotator turns heads — and containers. This latest model solidifies CRS's standing as pioneers in transforming container handling solutions worldwide.





TRUCK > SHIP



FIND OUT MORE




Telestack®
 Mobile Bulk Material Handling

Telestack were commissioned by their customer to design, build and install a TB 42 All Wheel Travel (AWT) high rise shiploader and x2 Titan dual-feed AWT 800-6 Bulk Reception feeder to load a range of commodities. The introduction of the AWT direct "truck to ship" shiploading system has transformed the flexibility and rapidity given to operators, not only in terms of speed (achieved by faster loading rates) but also the agility achieved through the ability to operate and move large scale shiploaders within the limited space on current jetty/docks.


www.telestack.com

#MOVINGTOMOBILE

Explosion protection by means of venting with Thorwesten Vent GmbH

USING PROPER VENTING TO PROTECT AGAINST EXPLOSIONS IN STORAGE FACILITIES

Every week there are various stories on social media, in print media etc. about explosions and fire incidents in storage facilities housing biomass cargoes, pellets, sawdust, coal etc, as well as in corresponding grinding systems. Whenever a dusty atmosphere is generated — and sufficient oxygen as well as an ignition source are present — the preconditions for an explosion are created.

In order to limit the consequences of an explosion to a manageable, controllable degree, reliable constructional explosion protection methods by means of explosion venting are required.

Today, state-of-the-art constructional explosion protection — e.g. in grinding systems as well as in alternative fuel processing and storage facilities — is regulated by international Rules and Directives.

However, as the grinding system is only one part of a very large equipment scope, less attention is paid to this issue during the overall decision-making process. When badly designed constructional explosion protection systems are used, this can lead to serious consequences such as a big explosion that can result in worker injuries or even fatalities.

In recent years, several severe explosions in grinding systems, as well as in the processed industry of alternative fuels, have emphasized the need for properly working constructional explosion protection. Therefore, corresponding rules and directives should be implemented in the technical specifications from the outset.

European ATEX Directives are helpful but their correct implementation isn't that easy. ATEX compliance has been enabled by installed technology but largely has to be organized by the operator of the systems.

EUROPEAN ATEX DIRECTIVES DIVIDED INTO:

- ❖ **Directive 1999/92 EG** relevant for operators covering the aspects of risk assessment, zoning, technical and organizational measures etc. pursuant to the main target to the protection of health of workers acting in potentially hazardous areas;
- ❖ **Directive 2014/34/EC** relevant for manufacturers of explosion protection devices covering the requirements of autonomous protection systems, components, safety and control equipment. The significance of this



Wood pellets.

Directive is emphasized by the common requirements for equipment and protective systems. The part which is related to constructional explosion protection reads as follows: "Should an explosion occur possibly endangering persons directly or indirectly (or for that matter domestic animals or property), such explosion is to be halted immediately and/or the range of explosion flames and explosion pressures to be limited to a sufficient level of safety". Only ATEX-approved explosion venting devices assure a proper function as well as a correct determined venting area.

EN EUROPEAN/US AMERICAN STANDARDS

- ❖ These standards are of great significance e.g. for grinding systems, storage facilities, etc. in terms of explosion resistant equipment (EN 14460), dust explosion venting protective systems (EN 14491), and explosion isolation systems (EN 15089). Corresponding American Standards issued by National Fire Protection Association are covered mainly referred to NFPA 68 as well as NFPA 69.

The danger of dust explosions is well known. Appropriate measures are usually taken and implemented to protect the systems and plant components. However, there are considerable deficits worldwide with regard to the safe operation of grinding plants, storage facilities, etc. The consequences of an explosion in such poorly protected plants range from massive damage to the plant to the loss of human life. The latter should be prevented at all costs. Operators of such plants should be

aware of their responsibility and act accordingly.

BIOMASS CARGOES IN FOCUS

The replacement of fossil fuels with alternative fuels is gaining more and more importance. The dangers associated with the explosiveness of such fuels are often underestimated or insufficiently known. Many of the alternative fuels used form a dust-laden explosive atmosphere. In the case of closed containers (silos) in which such fuels are stored, constructional explosion protection in the form of pressure relief is definitely required. In addition to the pressure relief devices, the correct design of the silo must be taken into account. In this context, the pressure shock resistance of the silo must be mentioned, which is a mandatory requirement. The pressure shock resistance of the silo should ideally be 2 bar g in accordance with DIN EN 14491. 2 bar g pressure shock resistance as an approved maximum value means that the pressure relief area to be installed is reduced to a minimum.

A static proof of the pressure shock resistance of the silo is required. With regard to the explosion characteristics (KSt/p_{max}) of alternative fuels, it should be noted that these are in some cases considerably higher than those of lignite. If available, reference should be made to characteristic values verified by tests. If no specific values are available, appropriate assumptions must be made.

The storage of wood pellets is of particular importance in connection with the topic of constructive explosion protection by means of pressure relief. This primarily concerns closed storage facilities (silos) with a capacity of more than 100

Discover Proven Biomass Handling Solutions



PEINER SMAG Lifting Technologies GmbH
Windmühlenbergstr. 20-22, 38259 Salzgitter, Germany
T: +49 5341-302 647 E: sales-grabs@peiner-smag.com

www.peiner-smag.com

tonnes. The safe handling and storage of wood pellets from biogenic solid fuels in commercial and industrial applications is defined in the corresponding DIN EN ISO 20024. The above-mentioned DIN EN ISO has been developed over several years by a working group consisting of members from all over the world. As part of the risk assessment, it is made clear that wood pellets can generate an explosive atmosphere and thus trigger a dust explosion. The occurrence of such a dust explosion is illustrated by the explosion pentagon below.

With regard to explosion protection, clear measures for pressure relief are specified. In detail, the pressure relief openings must be closed. There are two reasons for this requirement:

- air ingress after pressure relief must be minimized; and
- loss of inert gas must be avoided.

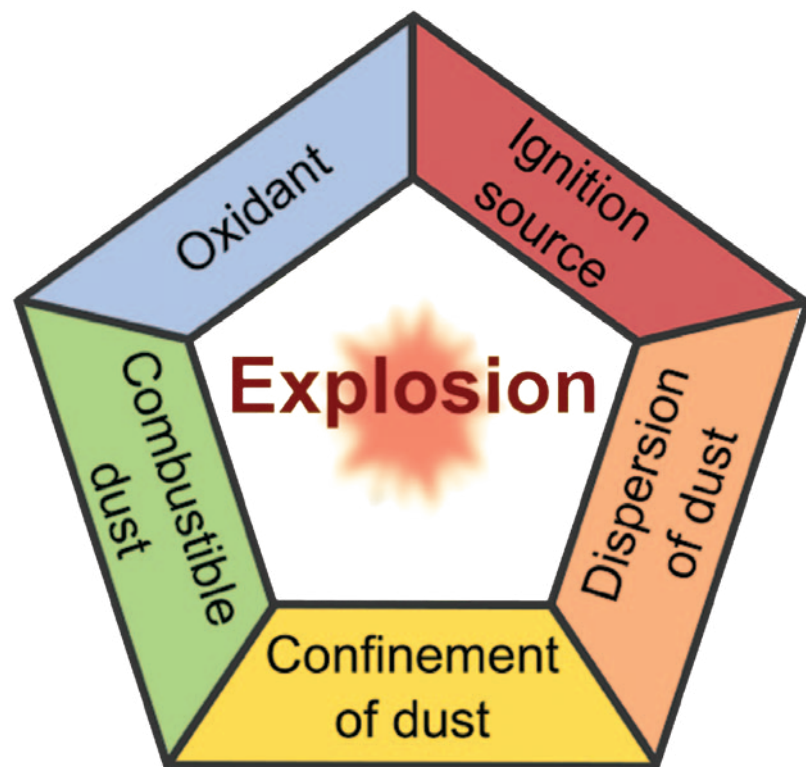
The venting area to be installed must be determined based on the pressure shock resistance of the silo, its corresponding volume and the explosion characteristics.

Past experience has often shown that the measures described are not used. It is therefore important to communicate the relevant DIN EN ISO. This article is intended to contribute to this.

CONSTRUCTIONAL EXPLOSION PROTECTION IN GRINDING PLANTS, STORAGE FACILITIES, ETC. HOW DOES IT WORK?

The issue of constructional explosion protection in grinding plants and storage facilities is very multifaceted and needs attention with regard to the following themes:

- Explosion venting in combination with explosion pressure shock resistance to the relevant degree. This is mainly applicable for:



❖ **Protection of bag houses:** taking the related Rule (EN 14491) into account. Apart from the explosive characteristic values, K_{St} / p_{max} the enclosure's pressure shock resistance is one of the decisive factors to determine the necessary area in order to sufficiently protect the bag house as part of the coal grinding system.

From experience, this value of pressure shock resistance is between 100–400mbar g. Additionally, the obstruction of the

venting path by filter bags should be avoided right from the beginning of the design stage.

❖ **Protection of fuel silos:** taking the related Rule (EN 14491) into account.

As a result of the cylindrical shape of such enclosures, it is quite feasible to reach a



pressure shock resistance of 2 bar g (max. value as stated in the relevant Rule). This max. pressure shock resistance leads to the lowest possible venting area, depending on the efficiency factor of the venting equipment to be installed.

- 2) Explosion venting respectively explosion de-coupling in combination with explosion pressure shock resistance to the relevant degree.

In the past, explosion risks caused by dust explosion transmission through pipes and ducts of interconnected plant in units, have caused serious damages. This scenario is generated by a secondary dust explosion, the so called 'Flame-jet-ignition' which results in very high explosion pressures in the connected enclosure. To limit the extend of dust explosions and to prevent violent secondary explosions due to explosion transmission via pipes and ducts, explosion protection using suitable explosion isolation techniques, are mandatory. In grinding plants, the installation of explosion diverters, designed in accordance to the relevant Rule have proven their efficiency.

Techniques of intelligent concepts are available in order to effectively mitigate flame front propagation in dust-laden ducts. Thorwesten Vent carried out further research in form of various successful field tests with the French notified body Ineris.

The main aim is the mitigation of pressure pushing the flame front into the riser duct, in combination with the diversion of the largest possible portion of flame body. In grinding plants, explosion isolation measures in form of explosion diverters are mainly required. E.g. in riser ducts between mill outlet and bag house inlet as well as in any kind of ducts used as de-dusting pipes. Other mechanically operated explosion isolation devices (e.g. rotary airlocks, double flap systems of a certain pressure shock resistant degree) are necessary as well.

- 3) Self-reclosing, re-usable explosion venting devices

Self-re-closing explosion venting devices have been invented aiming at mitigating a fire inside the equipment. Mitigation respectively extinguishing of fire inside the equipment only works effectively, provided that ingress of oxygen is prevented and the injected inert gas e.g. CO₂, N₂ is kept in the system. Once open, the oxygen in the ambient air will increase the damages

caused by fire while injected inert gas is lost to the atmosphere without being effective. One benefit of this approach is the reusability of this venting device. In other words, no entire exchange of venting device(s) as it is the case for self-destructing devices is required.

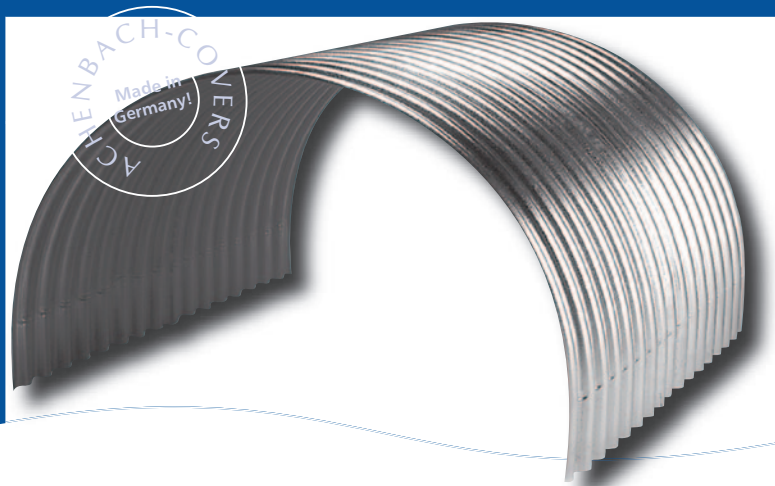
CONCLUSION

The technical design of grinding systems, storage facilities, etc. processing dusty media have to be based on the latest available standards. Any failure to consider relevant, necessary standards may lead to fatal incidents. Scrutinizing a proposed mill protection concept in the earliest stage of the acquisition procedure will prevent incorrect system protection. Investments

in follow-up costs in terms of system's modifications are avoided.

Storage and handling of alternative fuels as well as of biomass products play more and more an important role. The substitution rate of coal by alternative fuels/biomass is steadily increasing, provided the infrastructure of the country concerned is given. This is especially true. with the processing and handling of wood pellets, wood shavings, saw dust, dried sewage sludge, meat and bone meal, etc. which is growing and requires special attention in terms of constructional explosion protection. The explosive specific values of wood pellets are even higher than lignite, which underlines the hazard of a violent explosion.

Perfectly covered - with our hoods.



Achenbach metal hoods for conveyor belts

- The modern classic – in worldwide use
- Steel, aluminium, stainless – the appropriate material at any time
- Four corrugation profiles – suitable and cost-effective

Sale of organit-hard-PVC covers made in EU



ACHENBACH

Achenbach GmbH Metalltechnik
Lindstraße 10 · D-57234 Wilnsdorf · Phone +49 (0) 2737/9863-0
Fax: +49 (0) 2737/9863-10 · www.achenbach-siegen.de

Humber International Terminal evolves to handle wood pellets

The Humber Estuary is the UK's busiest trading estuary with around 40,000 shipping movements taking place each year. Here, Associated British Ports (ABP) operates four ports which handle over £80 billion of trade annually, equal to over 17% of all UK seaborne trade, with the Port of Immingham being the UK's largest by tonnage. Immingham is home to ABP's state-of-the-art Humber International Terminal (HIT) which handles a range of cargoes which include biomass, coal, animal feed, road salt and grains, and is able to accommodate vessels carrying cargoes up to 130,000 tonnes.

HIT was originally built for the discharge and handling of up to 12mt (million tonnes) of coal per year. As coal volumes have dropped significantly in recent years, ABP has adapted to facilitate alternative imports. The Terminal comprises two deep sea berths with a river quayside frontage totalling over 520 metres.

November 2014 saw the evolution of the HIT 1 Berth into an automated cargo handling facility focusing mainly on biomass (wood pellet) but also with the ability to discharge coal. The redevelopment and switch to biomass (wood pellet) has seen this part of the operation renamed the Immingham Renewable Fuel Terminal (IRFT). This was a £175 million project as part of a long-term agreement between ABP and Drax Power, to supply 4mt of biomass per year to Drax's Power Station in Selby, Yorkshire.

The IRFT is for the import, storage and onward transfer of renewable fuels to the regions power generating industry. The first phase of IRFT (July 2014) delivered the capacity to handle approximately 4,000,000 tonnes of cargo per year and store up to 100,000 tonnes on site at any given time, the second phase (October 2015) saw the annual throughput capability increase to 6,000,000 tonnes and onsite storage double to 200,000 tonnes.

The jetty is equipped with two continuous ship-unloaders (CSUs), which have the ability to discharge biomass at a combined rate of 2,400 metric tonnes per hour. The CSUs extract cargo from the ships holds via a series of enclosed screw conveyors, before depositing the cargo onto the first in a series of belt conveyors, which transfer the product to silo storage. At each transfer point, the conveyor system is equipped with dust extraction filters. These filters have the ability to remove airborne dusts during operation of the conveyor, with collected dusts being reintroduced back onto the running conveyor system preventing the need of disposal.

The IRFT conveyor/silo system is also equipped with various pieces of safety equipment including: thermal cameras within each silo which constantly record cargo temperatures; CO₂ and oxygen detectors in each silo, which alarm if deviating from normal levels; 'Fire Fly' spark detection is installed on all conveyors

which, if activated, would trigger the water deluge system dousing the conveyor/cargo at the point of detection; and a nitrogen injection system which can be manually deployed and has the ability to inert any given silo, with the aim of replacing oxygen, thus removing one element of the fire triangle.

The CSUs are also equipped with thermal imaging cameras which can detect any heated product within the vessel holds and with the same spark detection to the conveyors; if activated, an emergency procedure would be implemented whereby the heated product would be discharged to the quay.

All biomass product is delivered onto the rail network again via a series of fully enclosed conveyors before rail loading commences from the rail loading silo. This process also includes dust extraction filters, with collected product being delivered into each rail wagon.

Specialized Drax rail wagons are loaded with up to 1,650 tonnes per train of biomass (typically 25 carriages in length) via the fully automated system which loads each train within 40 minutes. All rail wagons (IIA-D type) that handle biomass/wood-pellet products, have been specifically designed and built by the power generators/freight operating companies, and encompass the use of open/close top doors to prevent uplift of dust during transit as well as protecting against rain due to the cargo sensitivity to water.

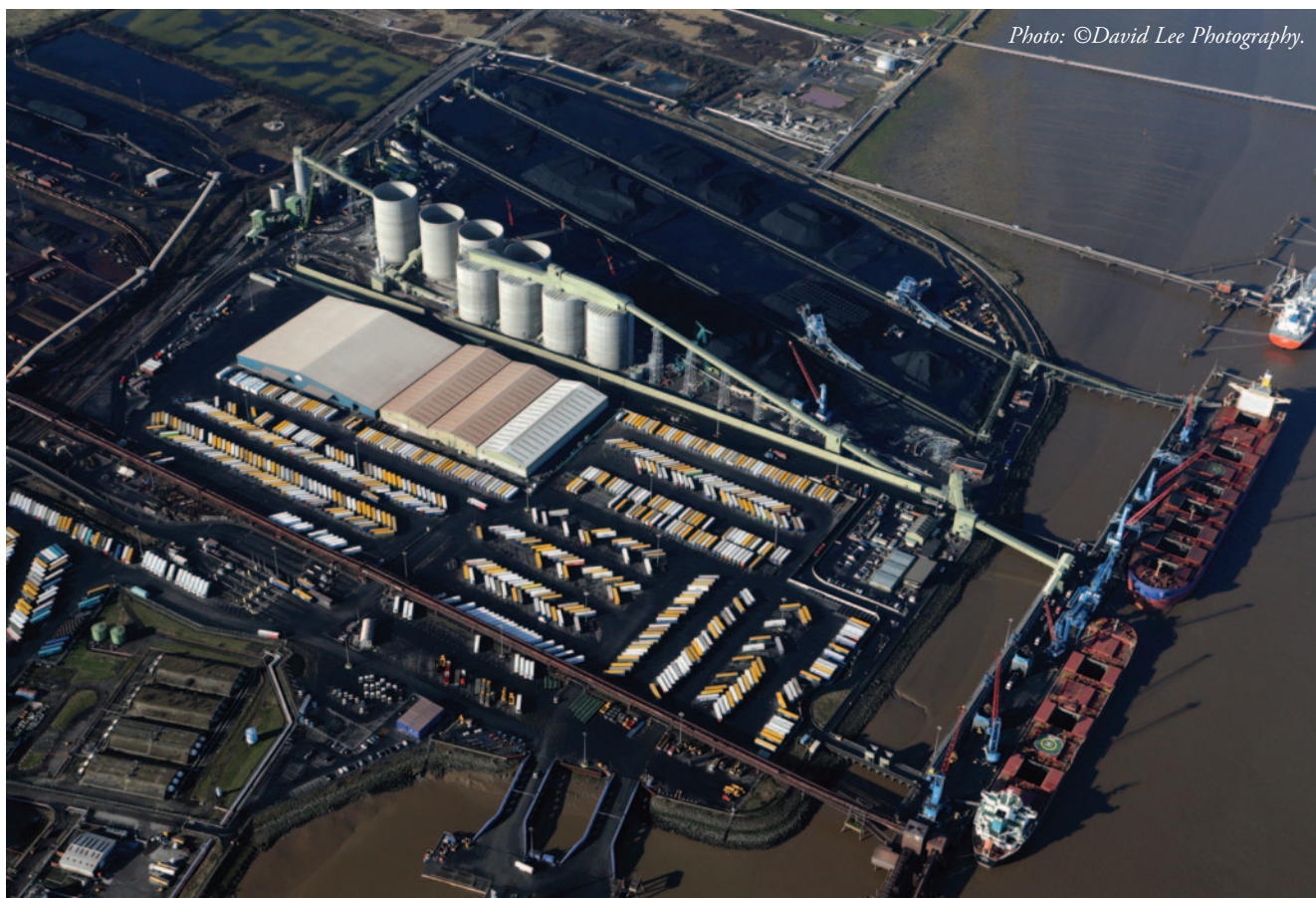
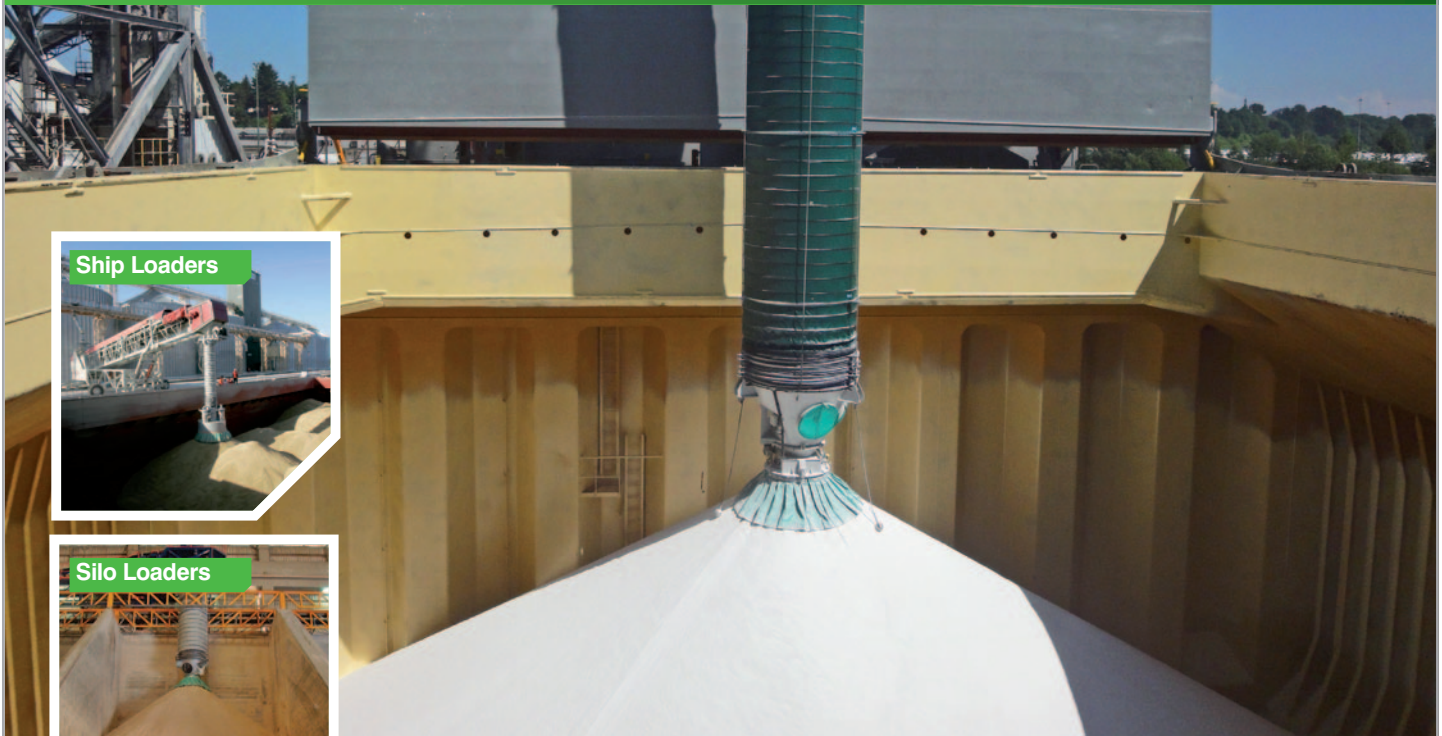


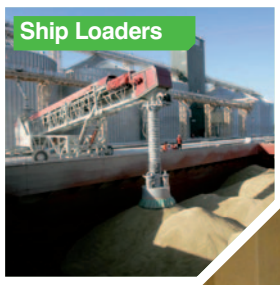
Photo: ©David Lee Photography.

Cleveland Cascades Ltd

Global leader in bespoke dry bulk loading chutes



Ship Loaders



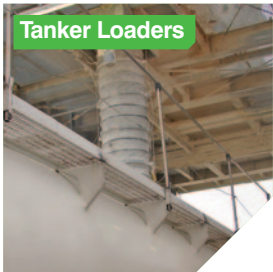
Silo Loaders



Truck Loaders



Tanker Loaders



Cleveland Cascades are Specialists in the design and manufacture of bespoke dry bulk loading chutes.

Our bespoke solutions are designed to meet each customer's specific requirements from a tool kit of proven components, utilising the expertise of a team of specialist in house design engineers.

We lead the loading chute industry & set the standard for dust emissions and environmental pollution control in dry bulk handling.

Our worldwide reputation is built on high quality, well-engineered, robust, high performance chutes, backed up by excellent customer service and global lifetime product support.

Contact Cleveland Cascades Ltd

Unit 22, Dukesway, Teesside Industrial Estate, Thornaby, Stockton-on-Tees, Cleveland,
TS17 9LT, United Kingdom Tel: +44 1642 753260 | Fax: +44 1642 753270

E-mail: enquiries@clevelandcascades.co.uk | Website: www.clevelandcascades.co.uk



INVESTORS
IN PEOPLE

A member of
necc
North East Chamber of Commerce



Tarragona's biomass throughput falls from high of 2017

The evolution of biomass at the Port of Tarragona has shown significant fluctuations over the past years. Since 2017, the volume has dropped considerably, with slight recoveries in 2019 and 2023, but still without reaching initial levels. Tonnages

can be seen in the tables below.

The Port of Tarragona collaborates with several private companies that co-ordinate operational improvement projects, many of which are submitted to calls such as Ports 4.0.

In general, these are technologies that use sensors to monitor the density of this type of cargo to optimize storage, detect high temperatures and combustion risk, and therefore enable preventive measures, etc.

STATISTICS: MAIN DESTINATIONS (TONNES)

Main destinations							
Country	2017	2018	2019	2020	2021	2022	2023
Italy	18,729	—	4,525	7,671	—	—	—
France	8,017	14,500	—	—	4,342	1,641	3,849
Sweden	—	—	12,191	—	—	—	4,946
Denmark	—	4,679	8,335	—	—	1,802	—
Portugal	—	—	—	—	3,711	—	—



BIOMASS TRAFFIC EVOLUTION AT THE PORT OF TARRAGONA

(firewood, sawdust, and wood waste)

Year	Tonnes
2017	26,783.162
2018	19,203.987
2019	25,053.239
2020	7,671.082
2021	8,052.544
2022	3,465.291
2023	8,814.519

About the Port of Tarragona

The Port of Tarragona is located within a privileged Mediterranean city. The coastal city of Tarragona and the port lie on the North-eastern Mediterranean coast of the Iberian Peninsula, at latitude 41° 04' North and longitude 1° 12' East. Located just 50 minutes from Barcelona, the sea, rail and air communications make this territory a privileged region on the Mediterranean corridor, and also a strategic enclave in the North-western European arc. This means that the port is a good choice in terms of logistics for connecting with the rest of the world, with accessibility and good connections with the rest of Europe.

The Port of Tarragona offers a wide range of transport and connections to

ensure that goods reach their destinations in Spain and abroad.

The Port and private companies are working to make new and more efficient storage systems and machinery possible.

Being operational 24/7 makes the Port of Tarragona accessible even on public holidays, and with highly trained workers with experience and specialized know-how. It offers spaces and warehouses for the movement and storage of all types of traffic and goods, and an excellent diversification strategy make it more competitive and brings in new markets.

Sustainability is a major focus for the Port of Tarragona. It strives to improve its activity so that it respects its

surroundings and the environment. It believes that it should be an example and a main actor in the implementation of decarbonization strategies. It will do this through economic transition and environmental sustainability actions, while reinforcing measures for the preservation and recovery of the natural environment, emphasizing green energy generation and enhancing air and water quality monitoring in port zones. It is therefore prioritizing the creation of a port energy community; the electrification of the docks; increasing the generation of photovoltaic energy; promoting a more sustainable cruise activity; and cooperating with the Green Hydrogen Valley, etc.

The Maritime Division of John Good Group prioritizes the environment



The Maritime Division of John Good Group consists of DAN Shipping, Bay Shipping and Arthur Smith, which are major port agents, chartering and renewable service providers across the United Kingdom and beyond. DAN Shipping was established in Hull in 1987, Bay Shipping was established in Wales in 1992 and Arthur Smith, a fifth-generation family business, was established in 1936. Operating jointly, The Maritime Division offers efficient and professional port agency and chartering services worldwide. Handling over 10mt (million tonnes) of cargo every year and working with a range of clients, The Maritime Division of John Good Group ensures the seamless handling of vessels and cargo alike.

As one of the UK's preeminent independent bulk ships agents and charterers, The Maritime Division of John Good Group has seen an unprecedented rise in biomass through its operations. The group has a multitude of respected clients that handle and discharge biomass into the Humber estuary.

The Maritime Division of John Good Group caters to ship owners, operators, port authorities, crew members, and other maritime stakeholders, providing a seamless experience through an extensive range of port agency and chartering services. Its

offerings include vessel clearance documentation, cargo customs clearance, crew changes, ship repairs, and maintenance, amongst others. It is a specialized expert in managing diverse cargo needs, evidenced by its handling of over 10mt of cargo each year.

The group has established relationships within the maritime industry and those with a passion for green energy solutions. The recent acquisition of Arthur Smith signifies a pivotal expansion for the John Good Group's Maritime Division. It gave the group entry into the offshore renewables sector, a growing marketplace within the industry.

As part of the John Good Group, The Maritime Division is working hard within the business to be accountable for its own ESG (environmental, social and governance) responsibilities, and it is equally aware that the wider energy industry is going through the same process, transitioning to a more sustainable future. The Maritime Division of John Good Group is working UK-wide to keep homes powered, stores stocked and keep Britain trading by facilitating the handling and moving of the biomass. The Maritime Division of John Good Group works together in collaboration to deliver exceptional services on a national level.

The Maritime Division of John Good

Group is proudly embracing its Group's ESG strategy, and it is proud to announce that at the end of 2022, it was operationally carbon neutral across all companies within the John Good Group. As an integral part of its business ethos, the division holds itself accountable for the positive outcomes it achieves through its meticulously crafted business plans. With unwavering focus, The Maritime Division of John Good Group strives for credibility through its actions, ensuring that its operations align with its mission of driving meaningful change.

The division is under way on its carbon reduction programme as part of the John Good Group. Examples of the changes and improvements implemented include renewable energy generation, the introduction of hybrid and EV vehicles, and a review of suppliers. Another example is the development of several people-focused initiatives aimed at carbon-contributing factors such as commuting miles.

The Maritime Division of John Good Group is in an industry that has material impacts on the environment, so reducing carbon output is essential. The division knows that reliance on carbon offsets is not the answer to the climate problems it is facing or to be relied upon for the answer to its responsibilities. By engaging

and collaborating with those around, the division has the opportunity to challenge and influence others it operates with to help shape a greener future.

To develop a sustainable future, it is important to think about meeting today's needs and protecting the environment and resources for the future and that's what is happening at The Maritime Division.

The Maritime Division of John Good Group carries forward exceptional service and dedication to community engagement. Through the Matthew Good Foundation, it actively supports charitable causes and local initiatives, empowering its employees to make a positive difference in the world.

The Maritime Division has built a reputation for superb service and attention to detail. It delivers excellent service; in 2023 The Maritime Division of John Good Group won the Customer Care award at the *International Bulk Journal Awards* and in 2018 it won the Bulk Ships Agent Award. The Maritime Division is committed to cutting-edge technology, setting it apart as a major force within the shipping industry. Through ongoing investments, it has fortified its position. With meticulous attention to detail, the division has seamlessly integrated GATSHIP, a state-of-the-art digital platform specifically tailored for its already proficient port agent team, into its existing systems and processes. With the rise in demand for biomass, this technological advancement gives the division's clientèle access to accurate real-time data and communication, ensuring optimal performance and exceptional service delivery.



Biomass handling with SAMMI's high-tech systems

Among the technologically advanced equipment offered by SAMMI is a range of systems to handle biomass cargoes. SAMMI is highly competitive in the complex, selective and extremely demanding sector of bulk handling industry, and it invests constantly to offer solutions that anticipate the needs of its customers.

Several of the company's biomass handling projects are detailed below.

Year: 2014–2015

Location: Italy

Description: Stockyard, bucket elevators, sidewall conveyor; engineering, supply and assembly of carpentries and machines for receiving, classification, storage and refining biomass plant. The project is characterized by the supply of two circular metal silos with a net useful volume of 500m³, with a flat-bottomed and mechanized rotating extraction system.

Customer: Europrogetti S.r.l.

End-user: Unicalce Lecco S.p.a.

Year: 2004

Description: Handling system for biomass power plant; belt conveyor 650mm x 22m; intermediate storage hopper screw conveyor; belt conveyor 650mm x 12m.

System capacity: 500tph

Material handled: wood chips, pine needles

Customer: Tecnocentro S.p.A./Bioter S.r.l. (ex Printer S.r.l.)

Year: 2006

Description: Handling system for drying plant and stockpiling; feed hopper; belt feeder 1,000mm x 11m; belt conveyor 650mm x 19m; belt conveyor 650mm x 21m.

System capacity: 1,000tph

Material handled: wood chips

Customer: Tecnocentro S.p.A./Bioter S.r.l. (ex Printer S.r.l.)

Year: 2012

Description: Handling and dosing system to the lime kiln; pneumatic conveying system; intermediate storage silos.

System capacity: 1,000tph

Material handled: virgin and recovered wood biomass

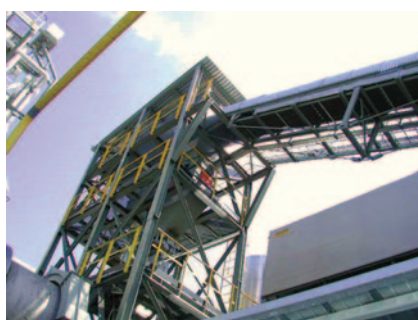
Customer: Unicalce S.p.A.

Year: 2014

Description: Handling and dosing system to the lime kiln; pneumatic conveying system; intermediate storage silos.

System capacity: 1,000tph

In 2015–15, SAMMI supplied two circular metal silos with a net useful volume of 500m³, with a flat-bottomed and mechanized rotating extraction system.



Four small pictures: handling system for biomass power plant, supplied in 2004.



Handling system for drying plant and stockpiling for wood chips (2006).



Material handled: virgin and recovered wood biomass
Customer: Unicalce S.p.A.

Year: 2022

Description: Handling and dosing system to the lime kiln; pneumatic conveying system; intermediate storage silos.

System capacity: 1,000tph

Material handled: virgin and recovered wood biomass
Customer: Unicalce S.p.A.

Handling and dosing system to the lime kiln supplied in 2012 to Unicalce S.p.A.



Explosive biomass cargoes are in safe hands with Loibl systems



Bulk handling equipment specialist Loibl offers a wide range of bulk handling equipment including shiploaders and unloaders, conveyors, scrapers, silos, hoppers and much more.

CASE STUDY – PORT HANDLING WITH EXPLOSION PROTECTION

INNOVATIVE TRANSPORT SOLUTIONS FOR POWER PLANTS

In 2019, Loibl built a biomass transportation system in Copenhagen, Denmark. This project was particularly notable due to the risks of explosions when transporting biomass.

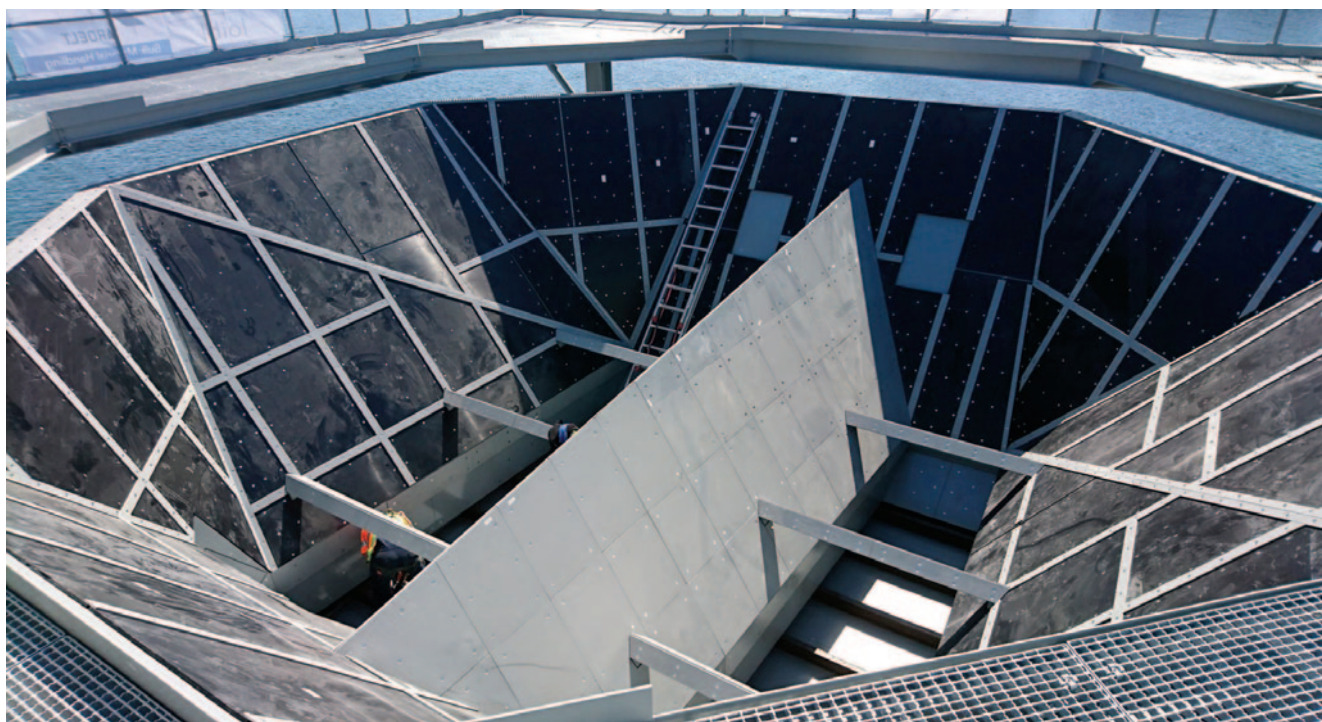
For HOFOR, the largest utility company in Denmark, Loibl designed an economically efficient, individual solution for the

transport of biomass (wood chips) from the port to the incineration plant at the end of 2019. HOFOR supplies around 20% of the entire Danish population with water, heat, electricity and gas. Loibl supplied a facility with a total weight of around 390 tonnes of technical equipment. It forms the interface between ship and stationary conveyor technology. Including two massive hoppers with an octagonal opening and a dust return wall attached. This special shape already reduces the amount of dust during the wood chip loading. Under the hoppers there are trough chain conveyors (LASHCHAINCON®) in a particularly heavy design and with a clear width of 2,000mm. A total of 800m³/h of conveyed goods are withdrawn from each of these

LASHCHAINCON®s.

The feed hoppers are open at the top, this reduces the formation of an explosive atmosphere and ensures pressure relief in the event of an explosion. The material is withdrawn from the hoppers in the upper run of the trough chain conveyor below. A dedusting system automatically sucks up the dust generated during transshipment in the feed hopper and at the subsequent transfer points. Heavier dust particles are reliably transported away with the conveying flow.

Each of the so-called hopper cars removes a total of 1,600m³/h of material. In addition to the dust return, the hopper cars are equipped with dry extinguishing lines including spraying in the feed bunker and





filters. In the event of a fire, the water is fed in by the local fire brigade with the dry fire line on the hopper car. In addition, a fire hose can be connected to a separate riser if necessary to extinguish fires on the hopper car. For cleaning, there are suction and wet cleaning lines on the hopper car, to which the operator can connect the corresponding equipment.

The hopper cars are coupled with the harbour cranes. This means that they can be moved individually and to any ship-unloading position on the pier. During the unloading pauses, the clamshell bucket and multi-section grab can be safely placed on the hopper car.

Loibl's scope of supply and services included:

- ❖ extensive engineering;
- ❖ production in Straubing, Bavaria;
- ❖ delivery of selected components;
- ❖ installation and commissioning on site; and
- ❖ conveyor technology for biomass transport: Feed hoppers, Movable steel construction, **LASHCHAINCON®**: discharge trough chain conveyor; control cabinet including cabling, dry fire line, suction and wet cleaning line, filter system (dedusting) including pressure relief device.


CHP — combined heat and power plants

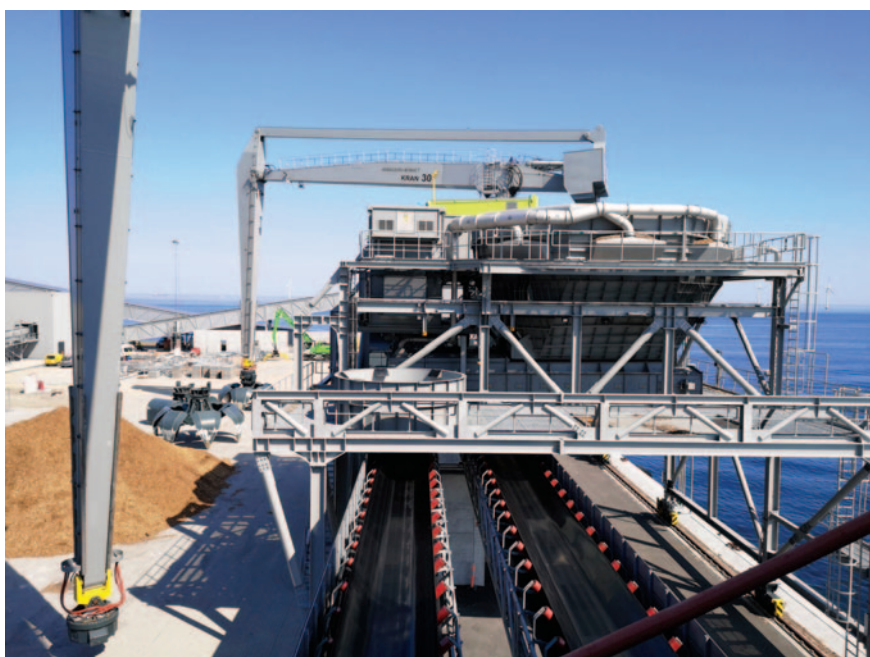
Combined heating and power plants are gaining in importance in connection with

the striven fossil-fuel phase-out. Many power plant operators are already reacting to the ambitious climate targets of politics and are gradually converting their systems to renewable energies.

The transition process works with combined firing from fossil fuels and renewable raw materials, mainly wood. In the long term, there should be a permanent switch to the combustion of renewable energies. In this, it is vital to have an experienced partner who reliably supports the energy producers and industrial users with the changeover.

Loibl's process engineering for a cleaner environment

In the Port of Copenhagen, 3,200m³/h of biomass are handled daily at the Amager-værket power plant. The amount of dust that arises during loading increases the risk of ignition. With over 60 years of experience in individually conceptualized bulk materials transport and as a competent partner in fire-endangered and explosive bulk goods, Loibl developed an innovative, ATEX-compliant conveying concept that more than lived up to the expectations of the largest Danish energy supplier. 



Stockyard systems

and technologies in the spotlight

Louise Dodds-Ely

Stockyards improving operational efficiencies by investing in feed storage automation: moooooove over, conventional thinking!

Save money now? Or save money later? That's the question stockyards around the world are asking themselves as they attempt to sustainably grow their businesses while meeting the needs (and appetites) of a growing world — all at the same time, writes *Mandi Steffey, Laidig Systems Inc.* It's definitely no easy decision to make, but some are getting ahead of the curve early by putting their faith in the future via new process technology.

What was once an industry hyper-focused on cost savings, stockyards today are opening themselves up to new ways of operating. With several million tonnes of dry bulk material running through these facilities every single year, for some companies, making large investments is essential if they want to stay competitive in a tight marketplace.

One often-overlooked area to improve efficiencies at stockyards is feed storage. Cattle have to eat, and that feed takes up space and resources. The material also requires heavy labour to move, handle, and deal with on a daily basis.

The traditional way of handling large amounts of cattle feed ingredients like DDGS (Dried Distillers Grains with Solubles) and others at stockyards usually

comes in three parts:

1. A big, flat storage building
2. A gas-guzzling payloader
3. Several employees tasked with moving and removing that feed

This three-pronged approach made a lot of sense for a long time. For many companies, it was the simplest and cheapest way to get the job done. But as some businesses are starting to realize with growth, when the volume of feed goes up, this old-school method actually becomes expensive, dangerous, and is rendered inefficient in the long run. Instead, these businesses are finding that automation equipment — which may have been out of reach for them in the past — can save them from overspending and taking unnecessary safety risks.

Let's break down an example of one cattle operation in Mexico that came to this realization recently.

This company in particular was embarking on the huge task of essentially doubling its cattle count from 250,000 head to 500,000 head. The business raises the animals for slaughter before selling the meat on the marketplace, and to control costs and quality, many aspects of the

operation are vertically integrated, including the entire feed production process. Operators wanted to inject even more efficiency, however, in an attempt to maintain control of the raw products going into the process and to increase the marketability of the company's unique product lines.

To bring down the feed production cost per ton, operators there needed to reconfigure the batch feed milling process because it took a lot of time and resources to manage. With a goal of producing and mixing 2,400 metric tonnes of feed in eight hours every single day, this was not an easy undertaking with an obvious solution.

The company worked with Laidig Systems, Inc., an automated bulk material storage and reclaim system designer and manufacturer based in the United States, to totally retool how feed is mixed and distributed out to the various corrals, each with a 60–100 head count, across the cattle yard.

"You can't imagine the truck traffic to feed this amount of animals with varying recipes per corral," said John Koorn, International Sales Manager at Laidig. "They need to increase quality and eliminate errors. That happens through automation."

For this project, Laidig designed multiple screw-type silo bottom unloading systems to automatically store and unload large quantities of individual feed ingredients in individual silos. The facility keeps two silos full of DDGS (each with 15 days' worth of storage), as well as two silos each (with one days' worth of storage) of materials like steam-flaked corn, haylage, corn silage, soybean meal, and others.

Operators can then automatically unload those ingredients in specific ratios to create different recipes for their varying animal weights and meat types. For example: for a high-fat beef product, operators utilize more steam-flaked corn in the mix. Those specialized feed mixes then go into their own 'final product' silos equipped with their own automated reclaiming and unloading systems. This streamlined process, which skips the sometimes-haphazard batch mixing process, allows for the ratios to be much more precise, resulting in better feed conversion and, in turn, cost savings.

Along with long-term cost savings, the quality of the material increases with automatic storage systems, cutting down on mold, fungus, insect infestation, and

compaction and flow issues, yielding a safer and better feed product overall for the animals. The higher quality feed results in a better-quality beef, which only increases the marketability of the facility's products. With the new feeding procedures, the company will be able to even further diversify its end-products, enabling them to market specific cuts and kinds of beef to distinct demographics all over the world.

"This company is all about innovation, and they invest in that innovation. This is why they remain in such a strong market position," Koorn said.

The entire material moving process is handled automatically with push-button technology and eliminates antiquated tractors and machinery typically utilized in batching. Laidig's reclaim systems use a patented, heavy-duty advancing and rotating reclaim auger to draw material down and out of silos without anyone ever having to enter the silo at all.

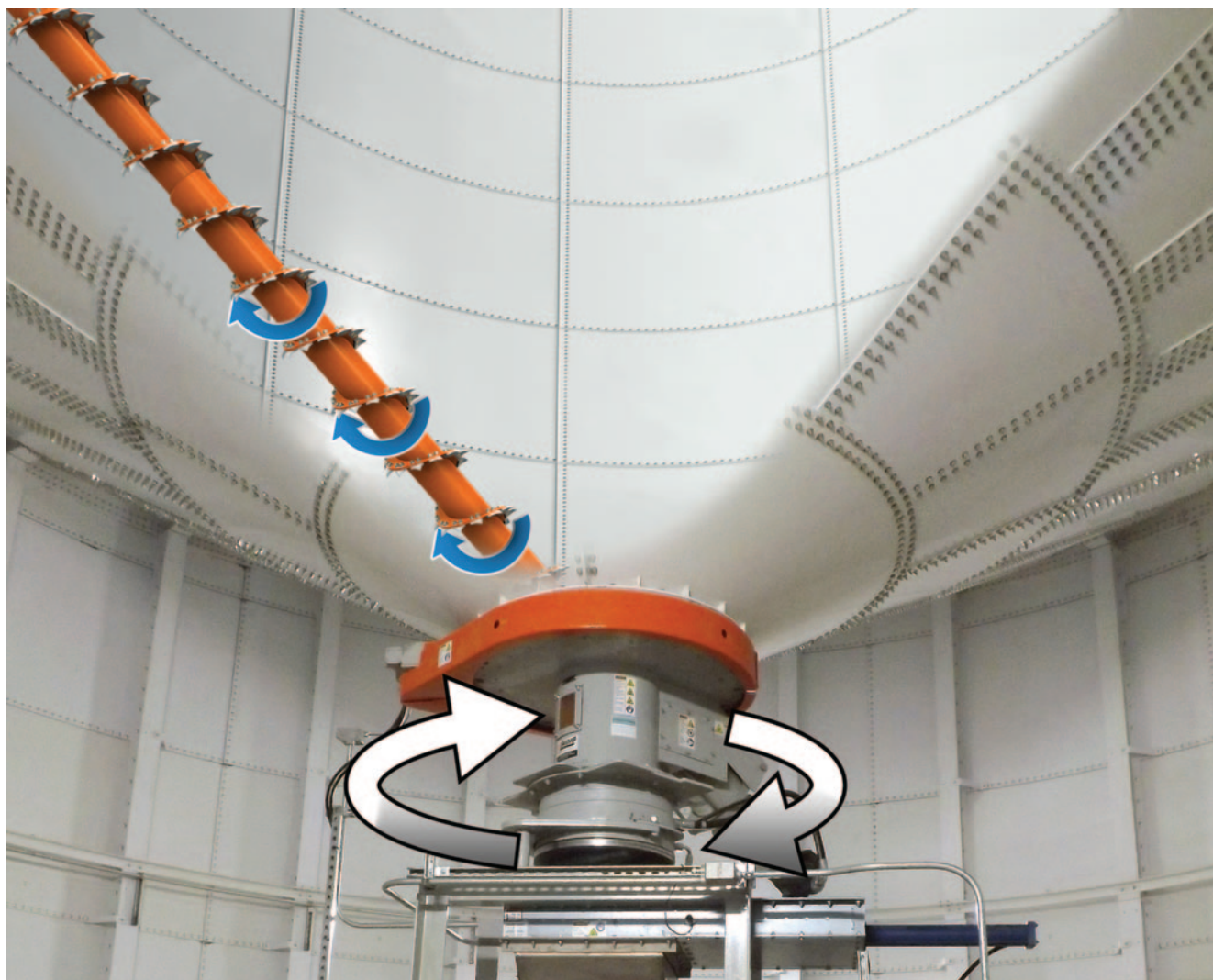
While the process is much different than what the facility was initially used to, it's a welcomed change. The switch from a batch feed process to this new, in-line mixing configuration saves the facility time, man hours, and money in the long run. It's

easier and safer to work with, too.

While this project is still in progress and in the building stages, the benefits can already be clearly seen. Laidig has helped thousands of companies solve storage problems exactly like this one through the last several decades, and has noticed a large uptick in expansion activity with stockyards in particular in recent years, with feed quality and operational efficiencies being the main drivers.

"The companies that are on the cutting edge of this industry are world class. They vertically integrate their processes and commit to quality and efficiency improvements, because those improvements drive them directly to better products and market share," Koorn said. "They aren't afraid to change the status quo and challenge how they've always done things."

As the growth trend continues in this industry, the storage needs at facilities will only become bigger and more complicated. That's why it's very important companies do their research and make smart investments sooner than later to stay competitive in an ever-changing marketplace.



350 kW

EU Stage 5 · U.S. Tier 4
EU Stage IIIA

150 kW

Hybrid Power
Blue Hybrid System

120-150 t

Service Weight
without attachment

27 m

Maximum
Reach

**F120
MH**

**A LEGEND
IS BORN**



FUCHS

A TEREX BRAND

The role of wind fences in modern dry bulk stockyard management



Dust control, inventory management and environmental stewardship are an essential consideration in the management of dry bulk stockyards, writes *Claire Cowie from WeatherSolve Structures*. Technologies used to optimize stockyard operations are diverse and offer the ability to streamline operations, lower costs, and reduce the overall environmental footprint of a site. Of these technologies, wind fences emerge as a transformative asset for stockyards; capable of tackling hazardous dust emissions and reducing the loss of valuable product all while improving safety and regulatory compliance.

UNDERSTANDING WIND FENCES

Wind fences are barriers that are constructed to alter wind patterns and reduce fugitive dust. They are typically constructed by erecting a porous material that acts as a barrier between the wind and the area to be protected. In general, wind fences have two mechanisms of action to reduce dust: an upwind fence or a downwind fence. Upwind fences dramatically lower wind speeds and minimize dust dispersion and movement, while downwind fences act as a 'catch' fence for dust that is still moving. In a downwind fence, there is a small sheltered area in front of the fence that functions as a drop-out zone for dust

when the fence is perpendicular to the wind direction. Some dust also passes through the downwind fence causing dust to drop out in the same manner as an upwind fence in a protected area that extends one to two shelter heights downwind. As dust erosion studies have shown, the majority of dust does not generally exceed 1m above the ground, meaning any height of a downwind fence can be effective, although this is dependent on each individual site and its dust control strategy. It should be noted that with changes in season and wind directions, an upwind fence may function as a downwind fence and vice versa.

The porous material that is used for wind fences allows a small amount of wind to pass through, thus substantially reducing the turbulence which is seen with solid barriers. A quality well-designed wind fence creates a sheltered area on the leeward side where the wind speeds are typically reduced by 50% to 80% depending on the shelter patterns the fence designer is working towards.

The aerodynamic porosity and the porous opening dimensions of the material also impact the effectiveness of the wind fence. The aerodynamic porosity is the porosity the wind 'sees'. It is different than the visual porosity. For example, consider

the 1" x 4" timber slats used on snow fences — a different type of wind fence — (with a slat, then a 4" gap, then another slat). Visually these are 50% porous. Aerodynamically, the porosity is closer to 25% as the corners of the slats create micro-turbulence that decreases the porosity. This is good for slowing wind but bad for controlling dust as dust would pour through the 4" gap. In fact, that is why snow fences are built that way — so snow will go through the gaps and settle out into a mound behind the fence. Clearly fences with large porous opening dimensions are not good for containing dust in a downwind mode though they may be efficient in an upwind mode.

In general, materials with porous opening dimensions greater than 1" and fences that do not go all the way to the ground are very poor at containing dust. Tightly meshed woven fabrics such as high-density polyethylene or polypropylene as tested and utilized by the industry experts at WeatherSolve Structures have been shown to be an effective wind fence fabric choice as they function efficiently in both upwind and downwind mode.

REAL-WORLD SUCCESS STORIES

There is an abundance of real-world examples that illustrate the effectiveness of

PORTABILITY AT YOUR PORT



TELESTACKER® CONVEYOR



As alternatives to more costly stationary ship loading systems, custom-configured mobile conveyors deliver lower capital investment, quick onsite assembly, ease of relocation, and the ability to function efficiently with a limited footprint.



superior-ind.com/ports

BUILDING THE BEST FOR OVER 40 YEARS

Decades of continuous improvement have led to today's AGI Hi Roller Enclosed Belt Conveyors. Dust-tight. Self-reloading. Custom-designed. And delivered with a level of customer service unmatched within the industry.

AGI HI ROLLER



**EXPERIENCE
THE DIFFERENCE**

Contact us at sales@aggrowth.com

[YouTube](#) [Twitter](#) [LinkedIn](#) [Facebook](#) [Instagram](#) @AgGrowthIntl aggrowth.com

AGI 

wind fences in reducing dust emissions and improving operations for dry bulk stockyards. For instance, in one stockyard in Florida, a custom designed wind fence (with a unique stress-release clip system to protect the structure during extreme weather events) was developed to reduce bagasse (dried and pulped sugar cane stalk) erosion and dust. The source of the erosion and dust was due to incoming winds as well as loaders shifting the pile. The stockyard had originally been using a bunker system to control the dust, however; the turbulence created by the wind moving up and around the solid barrier reduced its effectiveness and resulted in a loss of the bagasse product not to mention the dust wreaking havoc on the site and surrounding community.

The stockyard's primary goals were to reduce unwanted dust and product loss, as well as protect the surrounding community from the effects of air borne particulate matter. In this instance, an upwind and a downwind fence were custom designed to meet the needs of the site and effectively reduce dust emissions. The implementation of this wind fence technology resulted in substantial cost savings and a positive impact on the surrounding environment.

Another example of the real-world efficacy of wind fences in optimizing dust suppression in stockyards takes us to Australia where a cement manufacturer maintained multiple stockpiles of limestone. This site had historically used surfactants as their primary method of dust suppression but were plagued with significant dust plumes when the pile was disrupted causing a negative impact on operations and nearby neighbourhoods. In



many cases, a wind fence can be used with other methods of dust suppression such as surfactants, foam, water and other sprays to optimize their effectiveness. When utilized alone, these other methods of control do not provide the dust containment that a well-designed wind fence can provide — especially on a dynamic stock pile. A tailor-made portable wind fence was designed

and implemented that would allow the site to customize wind fence placement based on the shifting location of pile activity and wind direction. When not required for dust suppression, the fence could be moved along the perimeter of the site as not to interfere with operations. The result was a smaller environmental footprint, significant reduction of dust, and happier neighbours.

FINAL THOUGHTS

The integration of wind fences into dry bulk stockyard management represents a reliable and effective way to address the challenges of dust management and operational efficiency. As evidenced by real-world examples, a well-designed custom wind fence that addresses the specific needs of a stockyard can mitigate hazardous dust emissions and reduce the impact of said dust on the surrounding environment.

The adaptability and effectiveness of wind fences showcase their ability to transform dust mitigation strategies even in the harshest environments. As regulatory pressures and environmental concerns continue to rise in industry, the technology of wind fences is crucial for stockyards who prioritize environmental stewardship and safety.



Maintenance & service on conveyor belt cleaners with Martin Engineering

The need for conveyor belt cleaning is well established, write Alan Highton of Martin Engineering and R.Todd Swinderman, President Emeritus. Belt cleaners help reduce accumulations of carryback under the conveyor and minimize the release of dust from buildup on rollers as the carryback dries. A belt cleaning system performing poorly will contribute to build-up on pulleys and idlers on the return run. That material buildup is one of the primary reasons a belt will mistrack, causing damage to its edges, and it can also attack the covers of the belt through abrasion. The belt is typically the most expensive piece of equipment on a conveyor, so by not removing carryback at the discharge it will contribute to premature belt failure.

Excessive fugitive material can reduce component and belt life by as much as 30%, while a multiple belt cleaner system contributes less than 5% to overall belt wear, delivering a significant benefit [1]. Further, the effect of a properly adjusted cleaner on the belt is far less than one that is under- or over-tensioned and allows material build-up to contribute to increased wear. For operators who have 'tried them all' and can't find a cleaner that works, it could be that the problem isn't the equipment, but the maintenance. A managed service relationship from a factory direct, manufacturer-trained technician may be the solution.

It's no secret that belt cleaners require frequent inspection and adjustment to perform at a level that meets or exceeds expectations. The optimum solution must include the right belt cleaners, mounted in the correct positions and proactively serviced to deliver a positive cost benefit month after month. Correctly installed and maintained belt cleaners reduce direct costs by reducing cleanup labor and indirect costs by improving safety, minimizing dust emissions and increasing component life.

A basic question for all conveyor systems is whether maintenance personnel are trained in selecting the proper belt cleaning system, installing it correctly, what to look for on inspection and how to set the proper cleaning pressures. It may sound pretty elementary, but there is a great deal of knowledge and skill required to tune a belt cleaning system to work under varying material, environmental and belt cover conditions, while still operating effectively and economically.

Belt cleaner manufacturers know that if their equipment is not maintained, the



blame typically falls on their components and not on the lack of proper service by in-house maintenance crews. As a result, the money spent on belt cleaning equipment is often wasted. When performance falls to a level that can no longer be tolerated, the equipment is scrapped and another supplier's cleaners installed, only to have the cycle repeat itself.

In contrast, some manufacturers provide factory-trained direct service personnel and replacement parts — delivering expert maintenance for optimum performance and component life. A few will even supply free remote monitoring and reporting equipment that's accessible by wi-fi or cell phone. These managed service technicians, supported by a financially stable, well-established manufacturer and armed with the specific knowledge and equipment to do the job, are often the answer to common belt cleaning problems. For these technicians, who spend every day assessing and servicing belt conveyors, maintenance

and repairs become more of a precise science than a judgement by rule of thumb.

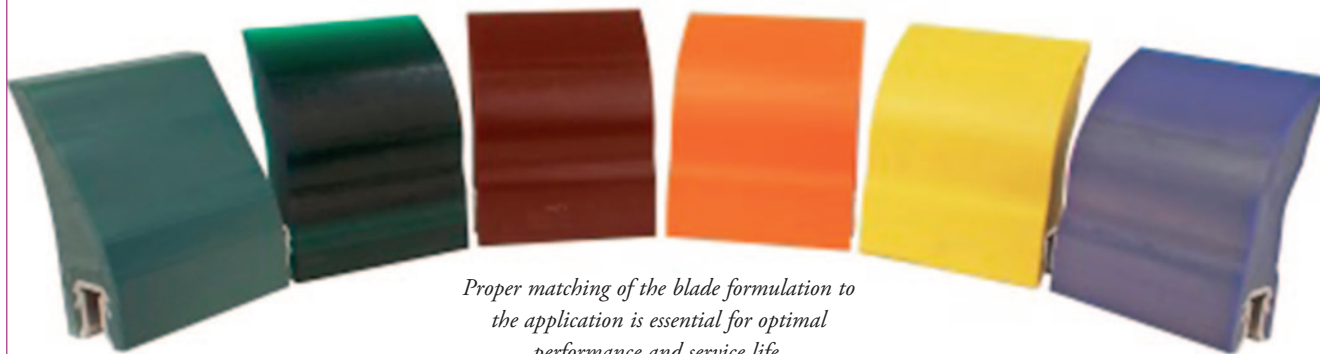
THE PROPER EQUIPMENT

The number and style of belt cleaners depend upon balancing many factors [2]. First, the level of cleaning required for the application must be established. Aggregate mining can often tolerate more carryback accumulation, because an acceptable level of cleanup can be done with mobile equipment and minimal manual follow-up to keep the conveyors operating. Other applications, like coal mining or power generation, cannot tolerate much

[1] Findings from a Study of Belt Cleaner Blades and Belting. R.Todd Swinderman, SME Coal Handling and Storage Conference and Exhibition St Louis, November 2011

[2] Basic Parameters of Conveyor Belt Cleaning; C.A. Rhoades, T.L. Hebble, and S.G.

Grannes; U.S. Dept. of the Interior, Bureau of Mines; Pittsburgh, PA; 1989.



Proper matching of the blade formulation to the application is essential for optimal performance and service life.

carryback because of the potential for accumulation to be the fuel in a fire triangle or explosion pentagon.

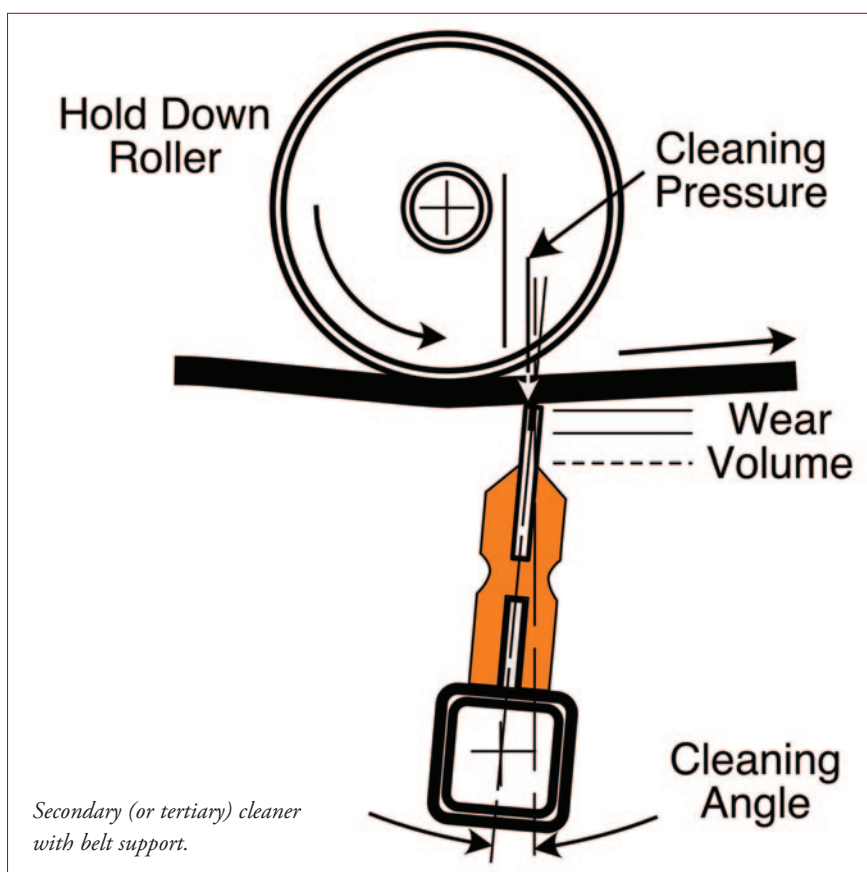
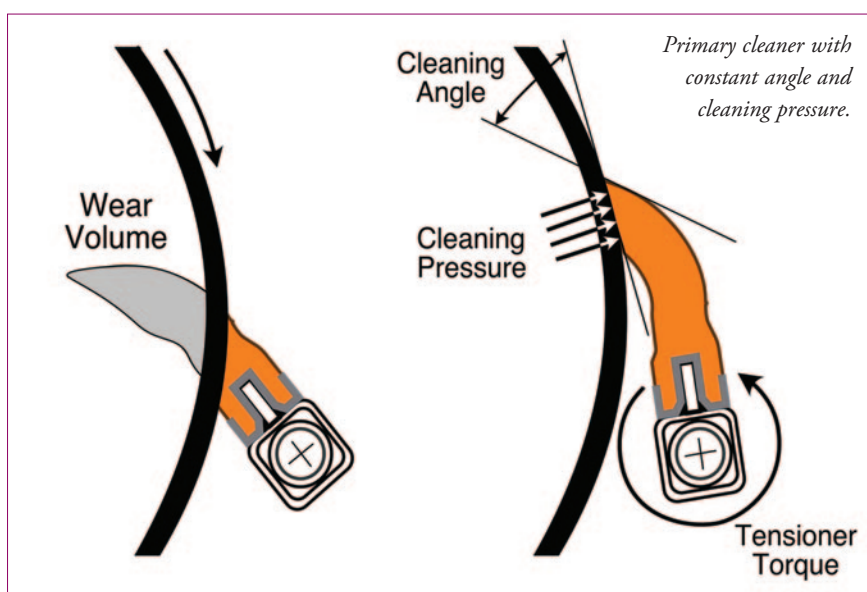
Once the level of cleaning is established, the next task is determining the type and number of cleaners required to do the job. Open pit aggregate mining may achieve acceptable performance with a single cleaner, while coal handling may require three or more cleaners to reach a satisfactory cleaning level. The trend in belt cleaning regardless of application is to plan for two or more cleaners per discharge. In addition to better cleaning from multiple cleaners, there is a redundancy factor that can provide a longer service interval window.

With the level of cleaning and the number of cleaners established, the appropriate materials of construction for the frame and tensioner are evaluated (e.g. stainless steel or powder coated mild steel) and the best blade for the application selected.

EFFECTIVE LOCATION

In chapter two of the seventh edition of its design guide, *Belt Cleaners for Bulk Materials*, the Conveyor Equipment Manufacturers Association (CEMA) specifies the cleaning locations as Primary, Secondary and Tertiary. The most desirable location for belt cleaners is on or very close to the head pulley in the primary position, so the material can fall with the main flow of material and reduce build-up on dribble chutes. If cleaning must be done away from the head pulley, cleaners are preferably mounted in the secondary position. If the secondary position is not accessible, cleaners may be mounted in the tertiary position, but this may require a second dribble chute or collection pit.

Many conveyors are designed without much consideration for belt cleaner location, despite the critical role they play in meeting production goals. Poor





Position indicator with remote monitoring.

conveyor head designs often have the structure obscuring the optimum mounting location or simply not enough room at the head to install or access them so they can be serviced. When faced with these restrictions, just one cleaner or installing it any old way isn't good enough. Facilities need a supplier partner that can make the best decision on equipment and location for their specific situation.

EXPERT SERVICE

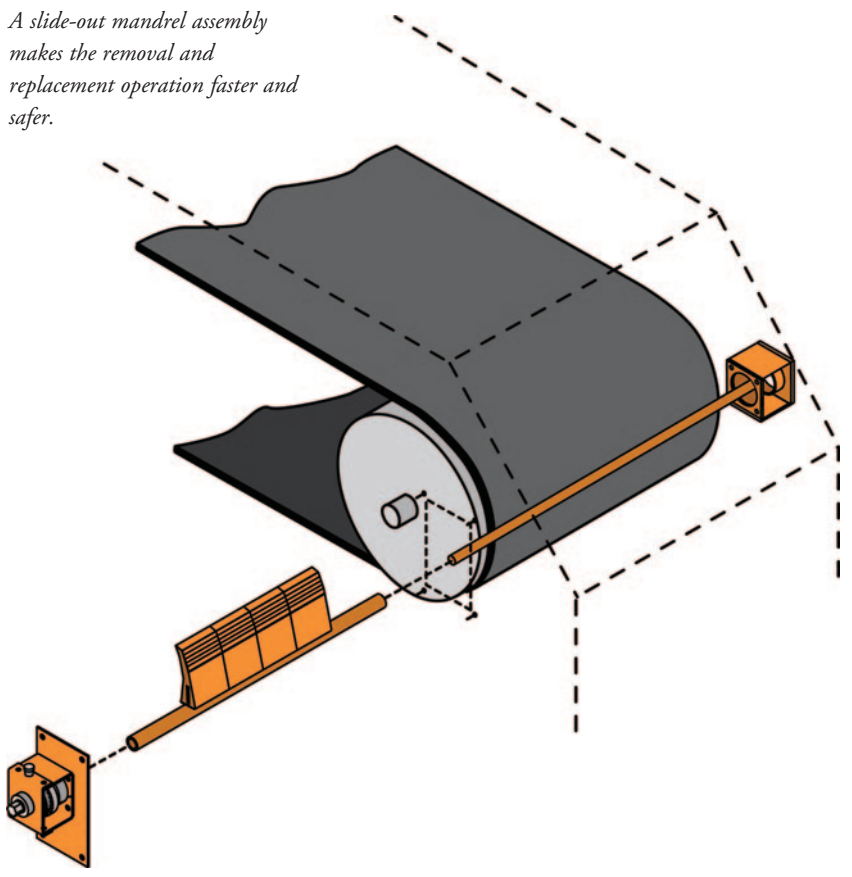
The US Bureau of Mines and several researchers since have established that there are sweet zones for cleaning pressures for different styles of belt cleaners [3]. Outside of these ranges the cleaning performance is lower, while the blade wear, belt wear and power consumption are higher. Reputable manufacturers design their cleaners and tensioners to achieve optimum cleaning performance vs. blade wear. It may seem counter-intuitive, but if the cleaner isn't doing a good job, more cleaning pressure can actually make the problem worse. Maintenance personnel must understand these phenomena and know how and when to adjust each style of cleaner. Some sophisticated users optimize their cleaning

performance vs. blade replacement costs by testing different blade materials at different cleaning pressures and changing blade materials and cleaning pressures for different seasons or ROM (run of mine) conditions.

INSPECTION AND MONITORING

Some manufacturers offer conveyor inspections and cleaner maintenance as part of a managed service relationship. Their monitoring systems can track component wear and update the service

A slide-out mandrel assembly makes the removal and replacement operation faster and safer.



[3] Swinderman, Todd; Marti, Andrew; Marshall, Daniel: *Foundations for Conveyor Safety*; Martin Engineering; Worzalla Publishing Company; Stevens Point, Wisconsin 2016. <https://www.martin-eng.com/content/product/690/safety-book>

Cost of Capital	10%	Year-by-Year Savings & Costs				
Initial Investment	\$7,500					
		Year 1	Year 2	Year 3	Year 4	Year 5
Cleaning Labor Savings		\$30,000	\$30,000	\$30,000	\$30,000	\$30,000
Reduction in Injuries Savings						
Increased Availability Savings						
Increased Component Life Savings						
Reduced Citations Savings						
Managed Service & Parts Cost		\$5,000	\$5,000	\$5,000	\$5,000	\$5,000
Net Cash Flow (Savings – Costs)		\$25,000	\$25,000	\$25,000	\$25,000	\$25,000
Net Present Value of Cash Flows	\$94,770					
Net Present Value of Cash Flows Minus Initial Investment	\$87,270 free cash flow Over 5 years of managed service					

Sample Data for a decision based on Return on Investment calculation

technician and/or operations personnel via wi-fi or cell phone on upcoming service needs. There are some new systems that can even adjust belt cleaner tension automatically. The technology will also send an alert through a mobile app in the event of upset conditions.

Factory-trained service technicians provide an added set of eyes on the conveyors, travelling to and from the equipment to be serviced and logging details in their service reports. Because they see so many different applications, they can often alert on problems that maintenance personnel don't see or have become accustomed to ignoring. With factory-direct managed service, the responsibility for maintenance falls on the manufacturer, allowing the staff to focus on other priorities.

SAFETY

A trained belt cleaner service technician is aware of hazards involved with maintaining belt cleaners. The indirect costs of an injury or accident can be significant. In-house maintenance and cleaning are two job classifications that are exposed to significant potential for muscular or skeletal injuries and are typically involved in more than half of reportable lost time accidents.

In many operations, a supplier's ability to work in the facility is directly related to its safety record. Having a trained provider that focuses on safety but at the same time is more productive than in-house maintenance can be a significant benefit. Keeping the shutdown to a minimum is important in meeting process availability goals. There are specialized systems for servicing belt cleaners where the belt runs

24/7 and can't be shut down, but virtually all other cleaner maintenance must be performed following lockout, tagout, blockout and testout (LO/TO/BO/TO) procedures.

THE RETURN ON INVESTMENT

At first glance it may seem that a plant has the in-house capacity to maintain belt cleaners, and hiring a managed service provider just doesn't make sense. The reality is a conveyor will run with a belt, a head and tail pulley and a drive — maintaining everything else can be put off (and often is) for production at any cost. A 'run till broke' philosophy means more than broken machinery — it can exacerbate financial issues and affect worker morale, too. Then, in the rush to patch things together, maintenance workers are tempted to take shortcuts and work around established procedures, exposing them to greater potential for injury [4].

A common injury for cleaning labourers is a muscle or back strain. The Occupational Safety & Health Administration (OSHA) Safety Pays Calculator puts the direct cost of a muscle strain at \$33,000 and the indirect costs at \$36,000 — for a total cost of a single incident at \$69,000. That's a lot of managed service hours and replacement parts!

Every minute of downtime for cleaner maintenance counts. A managed belt cleaner service program can cut the downtime to a minimum because they have the knowledge, the right tools and parts and are aware of the safety issues involved.

When calculating the return on investment for professionally installing and maintaining belt cleaners, the analysis

should be done over the life of the belt cleaner assembly using a net present value calculation. Many spreadsheet apps have a net present value function in Formulas. For example, if the cost of capital is 10%, the initial investment is \$5,000, cleaning labor savings is \$6,000 per year and service & parts are \$2,000 per year, the NPV of the cash flow (discounted by the cost of capital) is \$15,163. Subtracting the initial investment and the managed service cost, this example generated over \$10,000 in free cash flow over the life of the equipment without considering all the other potential savings. The spreadsheet makes it easy to change the inputs and compare different equipment and savings scenarios.

The following example is based on simply reducing cleanup labor by 2,000 hours per year at \$15 per hour. Other benefits should also be factored in — although not estimated in the example below — such as the savings from avoiding injury, increased equipment availability, improved equipment life or reductions in citations and fines. Facility managers often find that the cash flow values are surprisingly large over the life of the equipment and service relationship.

A typical belt cleaner assembly should last five years with minimal frame or tensioner repairs. Inspections should be done regularly and any problems addressed immediately. Some manufacturers with factory-direct service offer free replacement and upgrades of frames and tensioners as part of their managed service offerings.

Blade wear will vary based on the blade material and abrasiveness of the bulk



materials, along with several other factors such as correct cleaning pressure. Belt wear from the cleaner is typically in the neighbourhood of just 2% per cleaner, so concerns over blade type and cover wear are usually unfounded. The cost of safety is minimized by reducing the frequency and hours of manual cleaning and therefore the exposure to injuries.

A NPV analysis will often show such a large free cash flow that worrying over the cost of service or replacement blades is a misplaced concern. Similarly, a NPV analysis done when designing a new conveyor will often show there is no reason to skimp on the details or costs that improve belt cleaner performance and access for service.

CONCLUSION

Allowing the blade to wear past its limits, having the wrong tension or installing a cleaner system that is hard to access creates hazards for workers and can lead to excessive downtime. Automated tensioning and monitoring equipment mitigates some of the issues with blade wear and provides data and alerts when blades need servicing. This can help lower labor costs and improve safety due to fewer inspections and proactive maintenance.

Belt cleaner maintenance can be time-

consuming and pull labour from other essential tasks, so it's important to choose a supplier with trained and experienced service technicians who know the equipment and safety procedures and can respond quickly to customer needs. Considering a managed service program can make safety and productivity sense and improve profitability with additional positive cash flow.

ABOUT THE AUTHORS

ALAN HIGHTON/NATIONAL SALES MANAGER/ MARTIN ENGINEERING

Alan Highton began his career as a qualified millwright, after receiving his N6 National Certificate in mechanical engineering in South Africa. Highton joined Martin Engineering in 1996 as a service technician and was promoted to a sales position in 1999. He was named the RSA sales manager in 2006 and in 2012 was promoted to North American sales manager. He currently serves as the North American sales manager for Martin Engineering's Wear Components division.

R. TODD SWINDERMAN, PRESIDENT EMERITUS/ MARTIN ENGINEERING

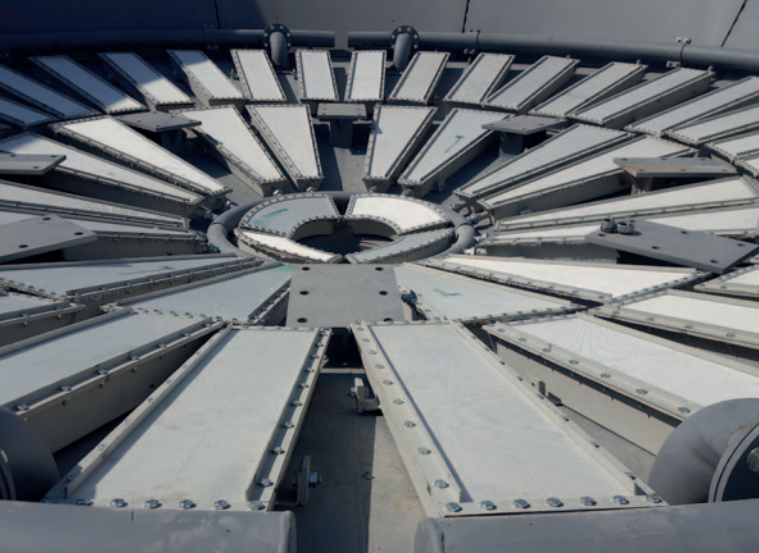
R. Todd Swinderman earned his B.S. from the University of Illinois, joining Martin Engineering's Conveyor Products division in 1979 and subsequently serving as V.P. and General Manager, President, CEO and Chief Technology Officer. Swinderman has authored dozens of articles and papers, presenting at conferences and customer facilities around the world and holding more than 140 active patents. He served as President of the Conveyor Equipment

Manufacturers' Association (CEMA) was the editor of CEMA's 6th and 7th editions of *Belt Conveyors for Bulk Materials*, *The Design Guide for Belt Conveyors*. Swinderman is active on several CEMA committees including Chair of the Bulk Safety Committee and is a member of the ASME B20 committee on conveyor safety which set US conveyor safety standards. Swinderman retired from Martin Engineering to establish his own engineering firm, currently serving the company as an independent consultant.

ABOUT MARTIN ENGINEERING

Martin Engineering has been a global innovator in the bulk material handling industry for more than 80 years, developing new solutions to common problems and participating in industry organizations to improve safety and productivity. 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 17 factory-owned facilities worldwide, with wholly-owned business units in Australia, Brazil, China, Colombia, France, Germany, India, Indonesia, Italy, Malaysia, Mexico, Peru, Spain, South Africa, Turkey, the USA and UK. The firm employs more than 1,000 people, approximately 400 of whom hold advanced degrees.

[4] Swinderman, Todd; Marti, Andrew; Marshall, Daniel: *Foundations: The Practical Resource for Cleaner, Safer, More Productive Dust & Material Control*, Fourth Edition. Martin Engineering; Worzalla Publishing Company; Stevens Point, Wisconsin 2009. <https://www.martin-eng.com/content/page/552/foundations-conveyor-systems-book>



MDG[®]
HANDLING SOLUTIONS



A COMPANY OF
**GAMBAROTTA
GROUP**

EP/EPC/EPCM “TURNKEY” PLANTS

MDG identifies the best technological solutions for customers specific needs, proposing itself as a “one source solution”, and for production systems, development and assistance. MDG Handling Solutions offers engineering, high-quality manufacturing and mechanical handling services.

Via Brennero, 316 - 38121 - TRENTO - ITALY - Ph +39 0461 1637111 - E-mail info@mdghandlings.com

WWW.MDGHANDLINGS.COM



Telestack installs a new Titan W800 truck unloader for dry bulk storage and transshipment



Telestack, in collaboration with its long-term partner Van der Spek Vianen (VDS), has successfully installed and commissioned a brand-new, 70-tonne mobile Titan W800 truck unloader at Lansers Trio in the Netherlands.

The Titan W800 is a versatile, wheel-mounted mobile truck unloader designed to facilitate direct unloading from trucks. It features a robust heavy duty apron chain feeder that allows 50-tonne road dump trucks and wheel loaders to unload material directly into the rear of the unit.

The Titan series of truck unloaders is ideal for eliminating the need for double handling of materials, ensuring a seamless and efficient 'direct' discharge from the

truck. Prior to the installation of the Telestack W800 at Lanser Trio, the operator was required to dump materials onto the ground and then handle them again using wheel loaders, which significantly increased costs per tonne and led to material degradation due to fuel spillage. The new system streamlines the unloading process, reduces operational costs, and preserves the quality of the materials.

The Telestack Titan W800 wheel-mobile was meticulously designed through a collaborative effort involving Lansers Trio (the customer), VDS (the Telestack dealer), and Telestack Ltd. This close partnership ensured that the Titan W800 would fully

meet the customer's diverse application requirements. The project exemplifies how Telestack and VDS, leveraging their custom design capabilities, push the boundaries of innovation to satisfy the demands of even the most challenging applications.

FEATURES OF THE TELESTACK TITAN W800 TRUCK UNLOADER

The W800 is a versatile piece of equipment specifically designed as a wheel-mounted truck unloader, featuring an integrated tow hitch for easy mobility across the site. This design element is crucial, as it allows the truck unloader to be easily repositioned as needed, enhancing its multi-functional capabilities. The W800 can be effectively used for various tasks such as reclaiming materials, feeding auxiliary equipment, and supplying material to shiploaders. This flexibility makes it an essential component in streamlining site operations.

The W800 truck unloader for Lanser Trio was engineered to handle a diverse range of materials, including cokes, coal, and slag. The truck unloader is capable of efficiently managing materials with varying properties, ensuring seamless operation when unloading from 50-tonne trucks. It is designed to process between 600/700 tonnes per hour meeting the demanding requirements of the operation.

This is an all-electric driven unit as requested by Lanser Trio for higher efficiency and lower global footprint. It





Motor Driven Reels

- Monospiral and Level-Wind configurations
- Rugged and dependable magnetic coupler for dusty environments



Cable Festoon

- Corrosion-resistant, long-life rollers; precision sealed bearings
- Systems customized for the application
- Preassembled option, for easy installation



Slip Rings

- Allow infinite rotation
- Combined power, control and media (water, air, oil, vacuum, other)
- Available with ATEX and SIL 3 certification

Rugged Energy & Data Transmission Systems

Conductix-Wampfler has one critical mission: To keep your bulk material handling operations running 24 / 7 / 365. You need proven, worry-free energy solutions - and Conductix-Wampfler has them. Our systems provide reliable electric power and water to stacker/reclaimers, barge and ship loaders/unloaders, bulk conveyors, tripper systems, and gantry cranes. Conductix-Wampfler systems are rugged, low maintenance, and time-tested in tough, dusty environments. All products are backed by the largest sales and service network worldwide!

www.conductix.com

CONDUCTIX
wampfler

features a 'plug and play' system that seamlessly integrates onsite solar power with the main electrical grid, allowing for optimal use of renewable energy. Key electrical features include a blocked chute switch on feeder discharge point, radio remote control for all features on the truck unloader, LED lights and stainless-steel control panel engineered for durability in demanding environments. This is all enclosed with an IP 66 high grade control panel which is essential for protecting the control panel from dust and moisture infiltration, ensuring reliable operation even in harsh conditions.

The W800 is equipped with a variable speed drive, allowing for precise control of belt speed to efficiently handle a variety of materials. To further enhance its performance, the unit has been upgraded with dust suppression covers, significantly reducing airborne dust during operation. Additionally, this mobile truck unloader can be optionally fitted with a radial trimming Telechute. This attachment is specifically designed for managing other types of dusty materials and facilitates direct loading onto barges and coastal vessels, making the W800 a versatile solution for a range of material handling needs. A large ramp was fitted with the W800 by Telestack to provide easy access for the dump trucks to reverse to the rear of the unit. This setup is crucial for optimizing the loading process, ensuring that tonnage rates are maximized and that the operator can meet the capacity goals efficiently. This benefits

both the operator and the customers by maintaining optimal productivity.

A fundamental aspect of the Telestack ethos is that each unit is fully constructed and operational before it is dispatched. This process involves a comprehensive factory acceptance visit with the customer and operators. During this visit, Telestack ensures that all parties are satisfied and that the scope of supply is clearly defined. Additional testing is conducted, and any necessary training is provided to the operators. This thorough preparation is crucial for a smooth installation and commissioning process, which in turn allows for quick and easy set-up times on site. The assembly and commissioning of this unit for Lanser Trio was done by the highly efficient technical service at VDS.

Lansers Trio is a leading expert in the storage, transfer, screening, and processing of dry bulk materials. Whether handling

coal, ores, waste streams, or recyclable products, it provides tailored solutions for every application, utilizing the most suitable machinery and skilled personnel. The recent addition of the Telestack Titan W800 truck-unloader to its extensive equipment fleet, in collaboration with VDS, further enhances its capability to meet the diverse needs of their clients efficiently.

Telestack is renowned throughout the globe for its personalized service. The team of engineering and sales specialists work very closely with customers throughout each stage of the process from pre-sales and pre-engineering to ensure that the equipment is specific to your project. The company's product portfolio is vast as is its application knowledge. Experienced sales personnel will happily discuss projects with customers, and the company has a range of global reference sites in multiple applications.



Robust ultrasonic sensor meets the demands of mobile machinery

The increasing demand for efficient and safe automated systems and machinery is acknowledged by today's engineers and specifiers and applies to just about every industry sector. This includes some of the most demanding mobile machinery applications operating in construction, agriculture, materials handling and logistics applications — and also, of course, bulk handling stockyards. To meet these demands sensor specialist BAUMER continues to develop its range of high-tech smart sensors including options that withstand harsh outdoor conditions and are resilient to chemicals, dust, extreme temperatures and wet environments.

The latest addition to the Baumer range of award winning sensors is the UF401V an impressive, high-performing ultrasonic sensor with proven impermeability exceeding IP68/IP69K which Baumer claims is unique for an ultrasonic sensor. Another indication of the robustness and quality of the UF401V is that it is compliant to industry standards such as; ISO14982, EN13309, ISO13766, ISO5003 and EN60947-5-2/-5-7.

This innovative sensor is ideally suited



to the demands of machinery operating in harsh outdoor conditions, for example; agricultural, construction, bulk stockyards and other similar industries where working platforms and mobile machinery is essential. The non-contact ultrasonic sensing principle minimizes any wear and tear issues to ensure reliable operation at temperatures ranging from -25° to 70°C .

This easily integrated sensor provides reliable positioning and presence monitoring data, such as distance to ground, target position and distance and object detection. Most importantly the

option of the smart UF401F is capable of suppressing the transient effect of plants between itself and the targeted measurement data. This eliminates the concerns about potential interruptions in data collection whilst easing integration at control level.

The performance of the new UF401V sensor has been recognized by a respected European journal *OEM Off-Highway* which selected the sensor for a Top New Products Award, stating that it “represents innovation and ingenuity in product design and development.”

Expertise in Stockyard Technologies

Stacker/Reclaimer (1973) at the former Coal Mine „Zollverein“, Essen/Germany – UNESCO World Heritage

WE CONVEY QUALITY



sales@schade-lagertechnik.com
www.schade-lagertechnik.com



SCHADE
AUMUND GROUP

ScrapeTec introduces its advanced dust suppression systems at MINExpo



ScrapeTec — in conjunction with distributors, BLT WORLD Inc — participated at the recent MINExpo, held recently in Las Vegas.

“This prestigious mining event — the world’s largest mining show — is the perfect platform for players in the mining sector to network, showcase new products and share the latest technologies and trends in the industry,” explains Thortsen Koth, ScrapeTec — manufacturers of advanced equipment, designed for the efficient control of dust and material spills during conveyor handling. “The ScrapeTec and BLT WORLD team was proud to participate at this interactive event and to introduce our advanced dust suppression equipment to mining specialists.

“Companies across the globe are continually looking for more efficient, dependable systems to alleviate problems associated with dust generation and belt spillage, caused by misalignment of conveyor belts. Common difficulties include dust, spills and contamination at the transfer points of conveyor systems. Misalignment, abrasion and subsequent belt damage are other problems industry faces.

“ScrapeTec dust suppression systems

have been developed to mitigate these dust-related issues and to reduce material spills, achieving significant cost savings, reduced energy consumption, improved environmental protection and a safer workplace. In addition to substantial operational efficiency, there is no longer the need for conventional dust collectors that demand high energy consumption.

“Apart from the benefit of cost savings and minimal energy consumption, DustScrape and AirScrape dust suppression systems are highly effective in minimizing exposure of workers to environmental pollution, which is a major problem caused by fugitive dust in dry bulk handling.

“ScrapeTec systems will go a long way to assist operators in the mining industry who need to prepare for the US Department of Labor Mine Safety and Health Administration’s (MSHA) new silica dust regulations. The new silica rules will require aggregates, sand and gravel mine operators to conduct exposure monitoring for crystalline silica, dust sampling and medical surveillance.

“Although the compliance date for the rule is only in April 2026, we believe it is critical that operators begin preparations

now, so they are fully compliant when the new regulations become effective. Our highly experienced specialists offer dependable solutions for specific problems at the transfer points of conveyor systems in many industries, where dust and material spillage are concerns.”

ADDITIONAL INFORMATION

ScrapeTec’s AirScrape and TailScrape conveyor components control dust formation and stop material spill, which enables material control and minimizes the risk of explosion at transfer points along the conveyor route. The PrimeTracker belt tracking systems controls misalignment, thereby reducing abrasion and belt damage.

According to specialists, conventional dust control measures — which include side seals, covers, shrouds or enclosures around a dust source — do help to suppress dust generation and dispersal in the short-term, but many of these measures quickly wear-out as a result of friction and can damage the belt of the conveyor during extended periods of use.

There are substantial benefits when combining ScrapeTec’s AirScrape, TailScrape

and PrimeTracker belt tracker on a conveyor system. The PrimeTracker ensures the belt is constantly in the correct position during operation, thus eliminating problems with belt mistracking, while the AirScrape and TailScrape efficiently control dust, prevent material spill and minimize explosion risks.

The contact-free AirScrape conveyor belt skirting system is an effective side seal that lies over the conveyor belt, without contact and creates negative pressure on the belt, due to its specially-designed blade structure. Because this system hovers freely above the conveyor belt, skirt friction and belt damage are eliminated and service life of every component of the conveyor is extended.

The AirScrape system encompasses inward facing, hardened-steel diagonal blades and operates according to a new principle where it hovers 1–2mm, on the left and right side above the conveyor belt.

These blades deflect larger particles inwards, while using the air-flow of the conveyor belt and conveyed material to create an inward suction, forcing any dust and fine particles back into the product flow. Through these diagonally fitted plates and the speed of the running belt, air is drawn from the outside inwards. As a result, neither the dust nor material can escape.

Conventional skirting is pressed against a conveyor belt to keep dust and material in the middle of the belt, but after a period, wear of the skirting and belt can be so severe, that material and dust escapes. Material spillage at transfer points needs to be removed and regular maintenance of belt



ScrapeTec — in conjunction with distributors, BLT WORLD Inc — participated at MINExpo, held recently in Las Vegas.

skirting and transfer points is necessary.

With the AirScrape dust-free and contact-free, side-sealing system for belt

conveyors, there is no skirt contact and therefore no belt wear or damage. Motor power requirements are reduced, as there is no belt-skirt friction and because there is continuous skirting with no gaps, product loss is minimal.

The durable ScrapeTec system consists of non-flammable and anti-static polyurethane materials and blades made from Stainless Steel. This system is available in different grades of materials that are able to withstand operation in various temperature ranges, depending on the application. Options include standard, FRAS (Fire Retardant Anti-Static), FDA (Food and Drug Administration approved), CR (Chemical Resistance) and HT (High Temperature –135°C).

ScrapeTec specialists and the BLT WORLD team work closely to develop advanced solutions for conveyor systems used in the handling of all bulk materials, including grains, fertilizer, gypsum, cement and mineral ores. A technical advisory and support service enhances performance of every ScrapeTec system.



Stockyard systems from SAMMI around the globe



Conveyor belts at Europe's biggest quarry in Belgium.

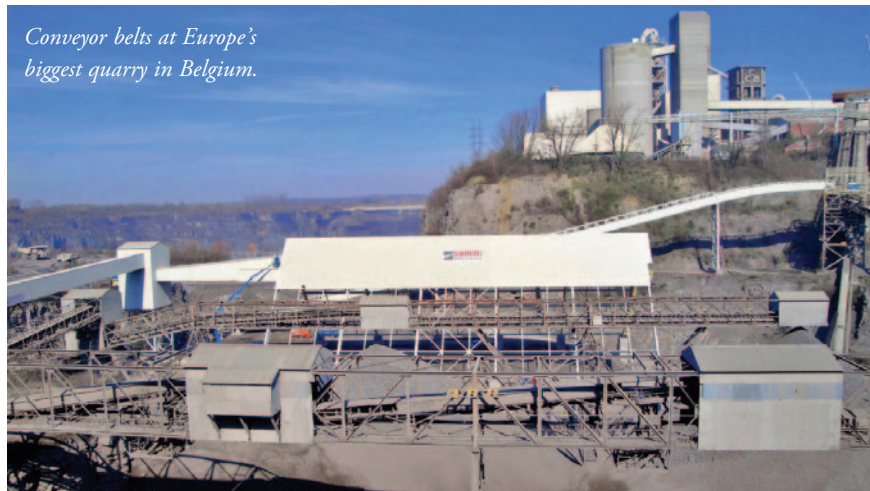
SAMMI s.r.l. specializes in the design and manufacturing of machines for bulk materials handling, providing complete systems and solutions in different fields, including bulk handling stockyards. SAMMI has shared some of its recent stockyard-related products with Dry Cargo International.

STOCKPILE POWER SUPPLY & QUARRY RAISING

Year: 2009–2011

Location: Belgium

Description: Solution for bulk materials, stockyard, belt conveyors, tripper cars; feasibility study, supply, erection and



Conveyor belts at Europe's biggest quarry in Belgium.



250tph conveyor system at Ciments Calcia cement crushing mill in France.

commissioning for conveyor belts from the biggest quarry in Europe with a capacity of 2,500tph (tonnes per hour) of limestone of size up to 300mm and stock-pile capacity 50,000m³ feeding line.

Customer: C.C.B. Italcementi Group

End-user: SA Compagnie Des Ciments Belges C.C.B.

250TPH CONVEYOR SYSTEM TO FEED CEMENT CRUSHING MILL

Year: 2011-2012

Location: France

Description: Solution for bulk materials, stockyard, belt conveyors, spillage chain, hoppers, extractors: design, supply, erection, start up and commissioning of feeding system for coal mill. The aim of the project is to create storage areas for different products and extend the storage capacity up to 12,000m³. This installation meets the requirements of the Atex directives reducing dust emissions.

Customer: Ciments Calcia

End-user: Ciments Calcia — Usine de Couvrot



250tph conveyor system at Ciments Calcia cement crushing mill in France.

RADIAL STACKER FOR MUCK/SPOIL REMOVAL STORAGE ON OPEN AREA AND BARGE LOADING SYSTEM

Year: 2014

Location: Hong Kong

Description: Radial stacker for muck/spoil

removal storage on open area and barge loading system: design and supply of one RS1400 x 26.75 tunneling muck radial stacker for stockpile and barge loading,

slurry muck conveyor with a capacity of 1,800tph, able to withstand typhoon wind limit 250km/h (storm-locked)

Customer: Marti Technics Ltd.



Radial stacker for muck/spoil removal in Hong Kong (and below).



Efficiency in dry bulk handling: the role of conveyor belts in modern ports

Handling dry bulk cargo in ports is one of the most significant logistical challenges in the global supply chain. Every year, millions of tonnes of products such as coal, minerals, and grain pass through ports, requiring highly efficient and reliable systems to ensure a continuous flow of materials. In this context, storage yards play a crucial role as the collection and distribution point for cargo before it is transferred or dispatched. The solutions offered by GBS Colombia SAS, a major player in conveyor belt manufacturing, are essential for optimizing the operation of these yards, ensuring greater efficiency and profitability for ports.

One of the main challenges in bulk cargo handling is operational agility. The speed at which vessels are loaded and unloaded is critical, as each minute a ship remains in port incurs high costs and delays in the global logistics chain. GBS Colombia SAS specializes in designing and manufacturing conveyor belts capable of moving more than 30,000 tonnes of cargo per hour, which allows for faster vessel turnaround, significantly improving port efficiency. With their advanced technology, these conveyor belts not only speed up the loading and unloading process but also reduce downtime, resulting in higher revenues for ports and a more streamlined logistics chain.

In addition to capacity, another key factor is the reliability of the equipment. Conveyor belt failures during port operations can cause major disruptions, negatively impacting profitability. GBS belts are designed to operate under extreme conditions, both in terms of load and environmental factors, minimizing the risk of failures and ensuring continuous operation. This is particularly relevant in storage yards, where material flow must be constant to keep port operations running smoothly.

INNOVATION IN BULK CARGO HANDLING TECHNOLOGY

GBS Colombia SAS excels not only in the capacity of its equipment but also in its ability to innovate and adapt to the changing needs of the market. A notable example of this is the company's

participation in a recent project in Africa, where it designed and helped structure a comprehensive system for the modernization and expansion of a bulk cargo port. This project included over 500 metres of conveyor belts, along with telestackers and feeders, optimized to handle cargo at more than 2,000 tonnes per hour. In addition, GBS designed an open-air storage system using silos and specialized conveyors, increasing the port's efficiency and improving its cargo-handling capacity.

One of the key innovations that GBS has implemented in its projects is the use of steel-cord conveyor belts and scanning systems that monitor the real-time condition of the belts. This technology enables operators to identify potential issues before they develop into major failures, thus enhancing the durability of the equipment and minimizing downtime. Additionally, GBS conveyors feature sensors to measure temperature, humidity, and cargo weight, providing precise, real-time data to optimize port operations.

COMMITMENT TO SUSTAINABILITY

Sustainability is an increasingly important aspect of the cargo handling industry, and GBS Colombia SAS has taken a proactive role in this area. The disposal of used conveyor belts, which are mostly made from vulcanized rubber, poses a significant environmental challenge. To address this issue, GBS has developed strategies for recycling and reusing its belts, thereby minimizing the environmental impact of its products. Moreover, the company has adopted the use of eco-friendly adhesives in belt manufacturing, reducing the environmental footprint of its production processes.

This approach to sustainability not only meets regulatory and market demands but also reflects GBS's commitment to developing technological

solutions that are both efficient and environmentally friendly. This commitment is reinforced by its collaboration with CI Global Traders, a company within the group dedicated to the research and development of technologies aimed at reducing the carbon footprint of port operations.

HIGH-TECH MAINTENANCE AND AFTER-SALES SERVICE

Another key factor in GBS's success is its robust maintenance and after-sales

service programme. The company not only provides high-quality equipment but also offers tailored maintenance plans that meet the specific needs of each client. Using an advanced system based on artificial intelligence (AI), GBS is able to carry out predictive, preventive, and corrective maintenance, optimizing the lifespan of its equipment and ensuring



continuous operation in ports. The use of methodologies such as RCM (Reliability-Centred Maintenance) allows for maximizing operational efficiency and minimizing unplanned disruptions.

INTERNATIONAL EXPANSION

GBS Colombia SAS is undergoing significant international expansion, with the creation of Global Belting Solutions LLC in the United States, enabling it to take on global projects with greater capacity and flexibility. This expansion is complemented by ongoing technological innovation and the development of new sustainability solutions, positioning GBS as a leader in bulk cargo handling not only in Latin America but also globally.

In conclusion, the conveyor belts manufactured by GBS Colombia SAS are a key component in the operation of modern ports, improving efficiency in bulk cargo storage yards and ensuring reliable operations. With a focus on technological innovation, sustainability, and international expansion, GBS is well-positioned to retain its position in the bulk cargo handling market in the years to come.

Innovative Weba transfer point solutions reduce costs and enhance safety

In the bulk material handling applications transfer points are critical locations where materials are moved between different conveyor belts or from conveyors to storage areas. The efficiency of these transfer points plays a pivotal role in maintaining a steady flow of materials, reducing downtime and minimizing operational costs. As these applications evolve, several significant trends are shaping the design and functionality of transfer points, reflecting a focus on reducing spillage, optimizing material flow and enhancing safety.

Weba Chute Systems has been at the forefront of addressing these evolving trends with its innovative approach to transfer point technology. The company's chutes are custom-engineered to ensure smooth material flow, reducing impact angles and directing materials in a controlled manner.

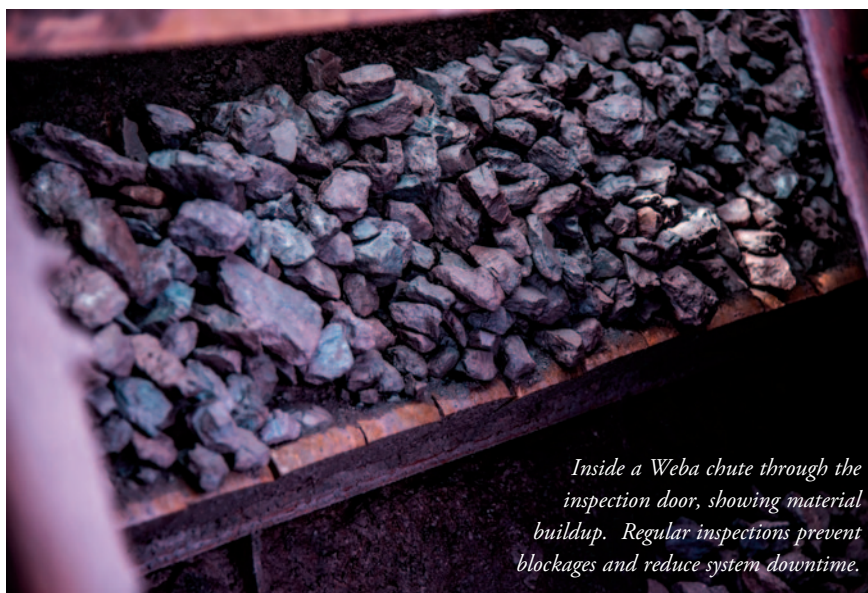
Mark Baller, CEO of Weba Chute Systems, explains that this design philosophy pioneered by his father, the late Werner Baller, minimizes wear and tear on both the chutes and downstream conveyor systems, significantly lowering downtime and maintenance costs.

Reducing material spillage is a challenge that has driven innovation in transfer point technology. Spillage not only results in material loss but also increases maintenance and poses safety risks.

"We also incorporated advanced dust and spillage control features into our designs, and specifically the controlled flow



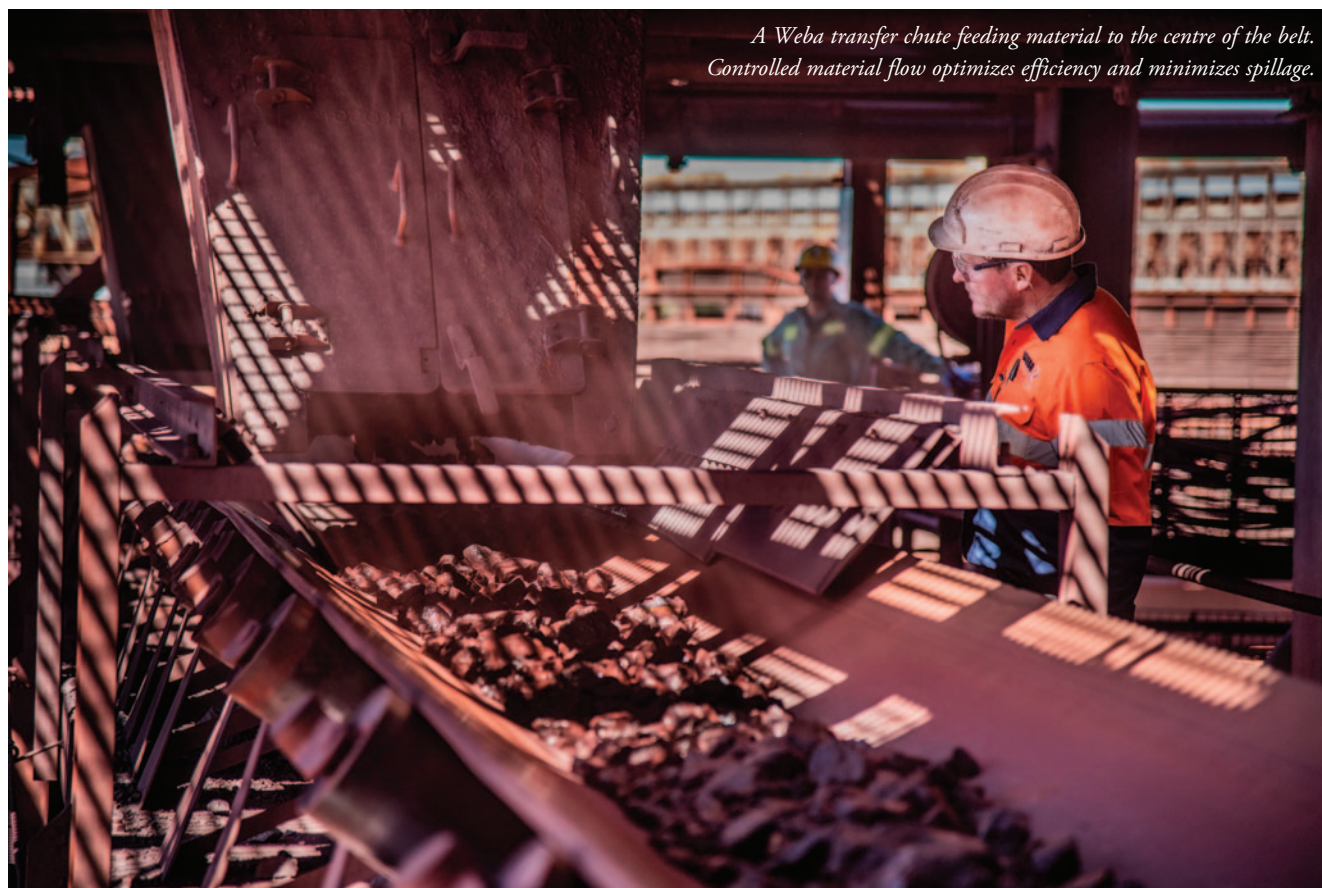
A Weba Chute Systems manager assessing dust at a transfer point. Dust control solutions improve safety and minimize environmental impact.



Inside a Weba chute through the inspection door, showing material buildup. Regular inspections prevent blockages and reduce system downtime.

A Weba head chute installed at an iron ore mine. Durable designs extend the lifespan of conveyors by reducing wear and tear.





A Weba transfer chute feeding material to the centre of the belt. Controlled material flow optimizes efficiency and minimizes spillage.

achieved by Weba chutes reduces turbulence and material scatter help to contain dust and minimize environmental and health risks,” he says.

Safety is another critical area where Weba Chute Systems excels, with chute designs that provide easy access for

maintenance and robust safety barriers to protect workers. The integration of new technologies, such as sensors and remote monitoring systems, enables real-time data collection on chute performance, allowing operators to anticipate maintenance needs and avoid unexpected downtime.

Baller explains that the use of advanced computational fluid dynamics (CFD) modelling, something which the company has been doing for many years, allows the company’s engineers to simulate and analyse material flow at transfer points with great precision.



A Weba Chute Systems site manager inspecting a sampler chute. Easy-access chute designs facilitate quick and efficient inspections.

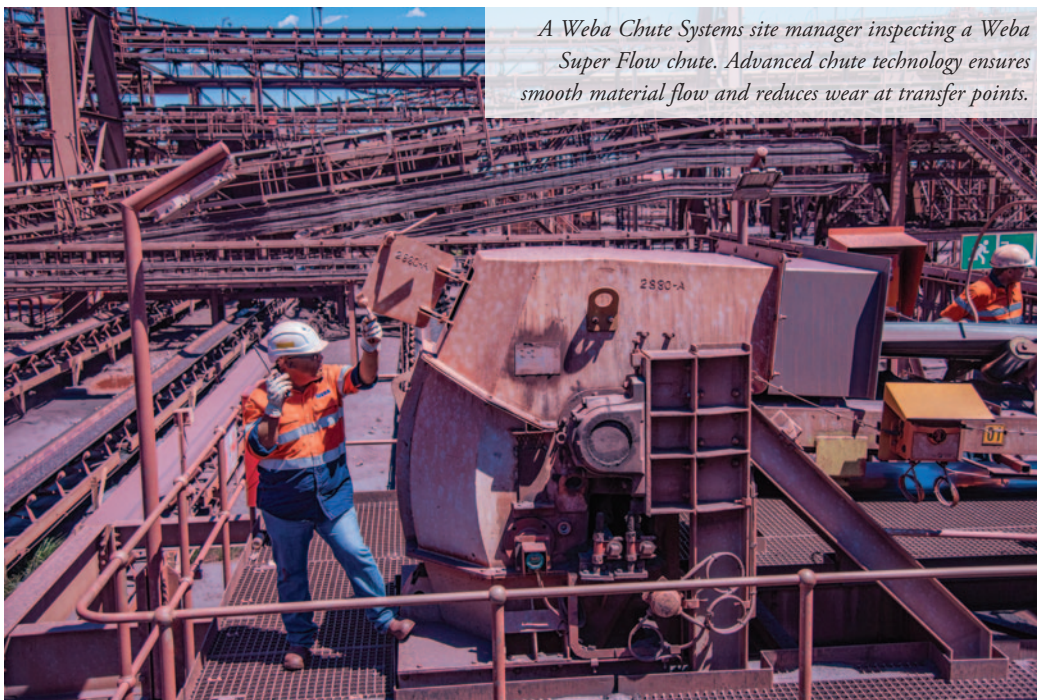
"By understanding how materials behave as they pass through these junctures, our engineers can identify potential problem areas, such as blockages or high wear zones, and adjust the design to ensure a smoother, more controlled flow. This approach helps to reduce impact and abrasion, extending the lifespan of the equipment and minimizing maintenance requirements," Baller continues.

Material choice is also a critical factor, with a growing emphasis on wear resistant materials that can withstand the harsh conditions typical of bulk material handling environments. High quality abrasion resistant steel, ceramic liners and composite materials are increasingly being used to line chutes and other components exposed to high impact or abrasive materials. These materials not only

enhance the durability of the equipment but also reduce downtime due to less frequent repairs or replacements.

As the demand for more efficient, durable and safe transfer point solutions continues to grow, companies like Weba Chute Systems are well-positioned to meet

these evolving requirements. By continuing to set new standards for performance and longevity, Weba Chute Systems is ensuring that material handling operations run smoothly and efficiently, maximizing productivity and reducing costs for bulk materials handling operations.



A Weba Chute Systems site manager inspecting a Weba Super Flow chute. Advanced chute technology ensures smooth material flow and reduces wear at transfer points.

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

– Henry Ford



To find out how you can benefit from advertising in the world's only monthly dry bulk publication contact Andrew Hucker-Brown on: **T:** +27 31 583 4360;
E: info@dc-int.com **W:** www.drycargomag.com

Tinamu AI stockpile offering continues to develop and expand



In the world of ports and terminal operations, Tinamu is making waves as an innovative player, pioneering the realm of robotics and AI-powered stockpile volumetric measurements.

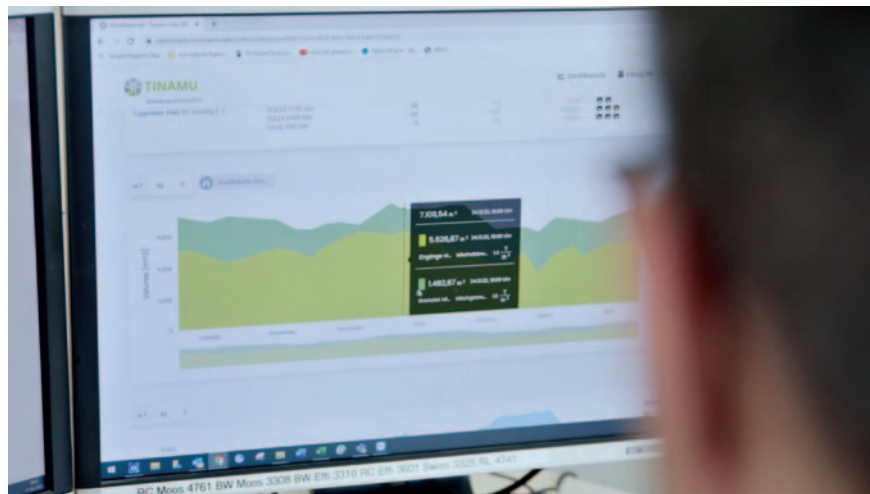
A spin-off from the Swiss Federal Institute of Technology (ETH), Tinamu has introduced a ground-breaking automation workflow that is changing how industries monitor stockpile inventory.

Traditionally, stockpile volume measurement was a painstaking and error-prone manual task that often struggled to keep up with the fast-paced dynamics of the industry. The intricate process of handling cargo in ports and terminals necessitates numerous stages, from sampling and preparation to weighing and final verification — all prone to inaccuracies and inefficiencies.

Keeping accurate and up-to-date inventory records of dry bulk is a daily challenge. Weighbridges, conveyor scales, draught surveys, and the rest of the existing solutions have their limitations and rarely deal effectively with the dynamics of ports, terminals, and warehouse operations. Inspections cannot be done multiple times a week, nor can regular human-piloted drones, as both have a high incurred cost and long turnaround to provide results. As a result, recency and confidence about the inventory are low and lead to logistic and operational inefficiencies. And the lack of visibility leaves room for fraud.

Tinamu's game-changing solution is an AI-powered autonomous drone system that captures high-resolution images of

stockpiles, analyses the data, and delivers precise volumetric measurements in a matter of hours. This creates a much-



Urs Fischer, Site Manager at KIBAG, launching the drone.



needed breath of fresh air in ports and terminals, especially where fraud detection and rapid, accurate inventory management are paramount.

Tinamu's technology combines autonomous drone navigation, cloud-based and AI-driven data processing, and a user-friendly platform to deliver periodic volume measurements of stockpiles with below-centimetre precision. As the drones gather data, it is uploaded to the cloud, processed with AI, and then returned to the user within a few hours via a web interface and visualized in easily digestible dashboards.

These interfaces enable tracking of changes in material distribution, analysis of inventory trends over time, and provision of detailed inventory data for each stockpile that's been surveyed, enhancing monitoring and logistics planning and maximizing warehouse utilization.

This innovative solution expands the limitations of traditional bulk inventory technology, like weighbridges and conveyor belts, and resolves issues associated with fixed sensors, including fine dust and blind spots. And critical for ports and terminals, this technology also amplifies fraud detection capabilities, enabling early identification and resolution of discrepancies.

Where traditional methods take days, Tinamu's system reduces this to mere hours. The platform ensures that from the moment the drones take flight, the collected data is swiftly processed and delivered to the client, maximizing efficiency and reducing waiting time.

Marco Rodzynek, the founder of NOAH

Conference, praises Tinamu's fully automated solution as "more flexible and up to 90% more cost-efficient than traditional methods." The company claims the ease of use, fast data turnaround, and increased accuracy of Tinamu's automated processes provide improved 24/7 visibility for end-to-end automated monitoring and control over warehouse inventories, offering reliable and precise measurements at the push of a button without the need for a pilot.

Already validated by leading players in the mining industry, Tinamu's technology is also making significant inroads across various other sectors — including chemicals, construction, and agriculture — that handle dry cargo, thus transforming the landscape of port and terminal operations. For instance, companies dealing with various bulk goods can leverage Tinamu's solution to streamline their inventory management, enhance logistics planning, and increase operational efficiency. And financed cargo under a collateral management agreement in remote areas can benefit from secure, trusted measurements for early fraud detection and operational verification.

A case in point is KIBAG, a large Swiss building materials group. KIBAG is highly dependent on reliable stock levels and needs to constantly monitor how much free space it has and how much inventory is available for sale. But like many in the industry, it was estimating these stockpile volumes visually, and the reporting was done in Excel. Because of the lack of accuracy, there were issues in planning and

co-ordination that made the system totally unreliable.

Incorporating Tinamu's solutions into its operations led to a radical improvement in stockpile measurements and a significant boost in operational efficiency that built trust back into the system with technology. "We push a button, the drone automatically flies indoors, outdoors and we get real-time stock data," says Urs Fischer, Site Manager at KIBAG. "Now that we use Tinamu's solution, I can't imagine our operations without it."

Not only does Tinamu's technology deliver efficiency and accuracy, but it also contributes to a more sustainable world. By automating the process, human error, waste, and carbon emissions are significantly reduced, leading to better utilization of resources and safer inspection methods.

In 2023, Tinamu entered a technological partnership with globally recognized European drone manufacturer Parrot. The synergistic partnership provides a software layer to transform Parrot's hardware into autonomous, self-navigating drones capable of operating in challenging indoor environments and has further amplified the scope and impact of Tinamu's solutions.

The ANAFI Ai's robust features such as 4G connectivity, reliable indoor mission execution, and obstacle avoidance fit perfectly with Tinamu's needs. However, intensive testing of Anafi or the first AI versions has revealed that the units are not yet sufficiently able to cope in the rough and dusty industrial environments in which Tinamu works. Nonetheless, Tinamu is still

working with the Parrot Bebop 2 platform from 2012, while it is constantly getting access and assessing any of Parrot's latest platforms before they are even announced to the markets. This all unlocks new possibilities for service delivery.

Tinamu's proficiency in indoor autonomous flight sets it apart from the competition, and Tinamu's automation workflow now enables Parrot's drones to provide reliable and precise measurements at the push of a button without the need for a pilot.

Tinamu anticipates improvement in service delivery, enhancing safety, speed, and accuracy, which will substantially improve their customers' experience. Chris Roberts, VP and Chief Sales & Marketing Officer of Parrot, also echoes these sentiments, marking the automation of drones as the future for scaling professional drone usage.

Another crucial aspect of this partnership is its adherence to the highest cybersecurity standards. The ANAFI Ai drone is compliant with the European Union General Data Protection Regulation (GDPR), includes a Secure Element to protect the embedded software, provides for strong authentication, and supplies a digital image signature. This strong focus on data privacy makes it an optimal choice for Tinamu, especially considering the sensitive nature of warehouse inventory data.

RECENT DEVELOPMENTS

- ❖ Tinamu has won and just onboarded a global leading copper producer in Germany, doubling its recurring service fee for data as a service. Tinamu offers recurring inventory monitoring on several warehouses and sites.
- ❖ Tinamu has established its data as single source of truth with a new standard inventory procedure, starting with its data and only doing manually inspections where necessary to clarify gaps to internal data.
- ❖ Tinamu has been able to reconcile exact densities, showing substantial differences from effective to the ones measured by standardized sampling and laboratory tests.
- ❖ Tinamu has also now initiated discussions to roll out its solution to more warehouses and sites — the name of the client remains confidential at this stage.
- ❖ In late October, Tinamu won the first Commodities Technology Innovation Award from Bilan and Ampersand World recognizing its transformative



Tinamu won the first Commodities Technology Innovation Award from Bilan and Ampersand World.



- impact on the commodities sector.
- ❖ Tinamu has also been officially certified by InnoSuisse as ready for scalable growth as successful finish of the core coaching.
- ❖ Tinamu has onboarded a new customer producing graphite and carbon in Switzerland, where it does recurring monthly inventory spot inspection. Already at the first

inspection, Tinamu identified up to 50% error on internal data.

- ❖ In corporate terms, the company has been reset to get ready for scale. Thomas Götschmann joined Tinamu on 1 May as the new CEO, to lead scale-up together with Tobias Nägeli, now in charge of Product and Technology.
- ❖ Tinamu initiated growth to serve its customers globally, currently planning pilots in Mozambique, Australia and Chile/Latin America.
- ❖ Tinamu is expanding its services to offer more insight beyond accurate volumes towards production excellence support (full material flow transparency, enabling planning

certainty and lean logistics).

PLANS FOR THE FUTURE

With an operational footprint in several European countries, including Switzerland, Belgium, France and Germany, Tinamu is rapidly expanding its reach. The company is continually enhancing its platform, keeping it ready for technological advancements and adapting to the industry's changing needs.

It plans to continue its journey to break-even and to reach the crucial, emotional CHF 1 million annual recurring revenue milestone, assuring successful sales traction, by the end of 2025

Tinamu is successfully funded until Q3 2025 and is preparing for a growth

acceleration series-A in 2026. It is searching for a strategic investor to lead global acceleration and the expansion of its vision to build a platform of flexible sensors.

Tinamu's future plans include adding additional sensors to its platform, such as thermal imaging, further adding value to indoor inventory monitoring. By having drones fly autonomously and repeatedly monitor the temperature of stockpiles, Tinamu should be able to provide early detection of moisture in grains and self-combustion in coal.

By creating a new way of doing periodic stockpile monitoring, Tinamu is reinventing the standard for innovation in ports, terminals, and beyond.



Parrot drone flying over a stockpile.

Thank you

...for proving us right. Advertising really does work.

To find out how you can benefit from advertising in the world's only monthly dry bulk publication contact:

Andrew Hucker-Brown on T: +27 31 583 4360

E: info@dc-int.com W: www.drycargomag.com



Innomotics' DigiMine Yardmaster proves its worth in today's stockyards



Stockyard equipment is just one aspect of the many products made by Innomotics. The company manufactures and supplies a wide range of products, services and solutions for many industries, including oil & gas, water, mining, cement and car-making.

With regards to dry bulk stockyards, Innomotics' electric motors and large drive systems are deployed in conveyor systems, mine winders, transportation infrastructure and bulk material handling machines.

Additionally, Innomotics supplies leading solutions in Digitalization, Automation and Electrification which allow companies to operate their existing assets as efficiently and sustainably as possible.

These include the DigiMine YardMaster, Innomotics' stockyard management solution. Yardmaster is designed to provide operators and planners with extensive knowledge about their stockyard inventory in real-time so that they can make the best decisions possible.

DigiMine Yardmaster also incorporates the Advanced Stockyard Planning (ASP) application which uses algorithms and real-time data integration to advise planners on how to schedule and optimize the movement of bulk materials in order to achieve defined production targets.

The DigiMine Yardmaster solution is

configured to handle any kind of dry bulk material, including copper concentrates, iron ore, coal and lime stone.

The DigiMine Yardmaster is the result of two decades of experience in developing automated stockyards. Innomotics designed the world's first driverless material handling system at the Bexbach power plant in Saarland, Germany.

So far, Innomotics has automated around 60 machines across Europe, Africa, and Asia with its Yardmaster solution. Over the last decades, it has deployed the technology at steel plants in China and Italy, phosphate mines in Morocco and a coal mine in South Africa.

Innomotics is redefining reliable motion for a better tomorrow, which will help it to remain competitive in a tight market. The company's solutions are highly efficient, dependable, low-maintenance, sustainable and digital.

Furthermore, excellent service is a top priority for Innomotics.

That is why Innomotics works very closely with its customers to conceive, design and implement solutions that meet their needs as closely as possible in a way that impacts their bottom line and the environmental profile of their operations.

Innomotics is constantly developing and refining its solutions, and keeps up with the

latest developments in technology. Its solutions in Digitization and Automation offer major efficiency improvements in the handling of bulk materials.

Additionally, electrified and gearless direct-drive systems can significantly reduce maintenance costs and downtime as well as CO₂ emissions.

ABOUT INNOMOTICS

Innomotics GmbH is a globally renowned provider of electric motors and large drive systems that combines deep technical expertise and leading innovation in electrical solutions across industries and regions.

With its more than 150 years of experience in developing electric motors, the company is the backbone for reliable drive technology in industry and infrastructure worldwide.

Innomotics is a thought leader in the areas of industrial efficiency, electrification, sustainability, and digitalization. The company is headquartered in Nuremberg (Germany) and employs around 15,000 people worldwide. Annual revenue exceeds €3 billion. With 17 production sites and a comprehensive sales and service network in 49 countries, Innomotics has a balanced global presence in a growing market.

Italian pedigree gives Meccanica Center the edge in machining



Meccanica Center (MC), based in Italy, offers a range of on-demand machine services and products, many of which are in use in today's bulk handling stockyards.

All products are 100% tailor made in Italy. The range includes a wide range of crane components: wheels, pulleys, drums, guide rollers, hook blocks, bogies and gearboxes. As a part of the Tonoli Group, MC boasts a history spanning three generations, during which the Tonoli family has played an active role in the Italian industrial community. In business for 45 years, MC has had many successes, and has shown commitment and an ability to overcome challenges; this approach has made Tonoli the esteemed company it is today. MC is a modern organization guided by principles and values. It is a strategic partner in the steel, ports and railways sectors, as well as in crane manufacturers one.

The company's flagship product, its 'FIRMA' wheel, is a tangible example of MC's key principles: "Quality, Technology, Efficiency". Years of research, dedication and improvement have been dedicated to creating the ideal component for the main applications which translate into maximum efficiency, safety, appreciable savings in maintenance and plant downtime.

DC



FROM PIT TO PORT, SOLVING PROBLEMS AND SAVING BUDGETS WITH HIGH VALUE USED AND SURPLUS EQUIPMENT



**Specializing in Crushing, Screening,
Wet Process, Conveying and Storage Solutions**
DISMANTLING - MOVING - ERECTING - SALVAGING - PROJECT MANAGEMENT

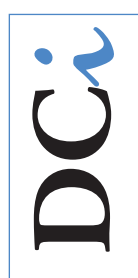
Serving the U.S. Gulf Coast and Ports Beyond

Contact information:
Mike Bandas, MGB & Company, Caldwell, Texas U.S.A.
Cell or Signal app: 512-734-2996 Skype: mgbandas
Email: mike@mgbandcompany.com
Web: www.mgbandcompany.com



INDEX OF ADVERTISERS

Company	Page	Company	Page
Achenbach GmbH Metalltechnik	77	Navtor AS	13
AGI	92	Negrini Srl	135
ASGCO "Complete Conveyor Solutions"	Inside Cover Coal Directory	NK Tehnologija SIA	59
Bedeschi SpA	41	ORTS GmbH Maschinenfabrik	56, 57
Cleveland Cascades Ltd	79	PEINER SMAG Lifting Technologies GmbH	75
Conductix-Wampfler GmbH	101	Port of Hamburg Marketing	7
CRS - Container Rotation Systems Pty Ltd	3	RIKON A/S	Front Cover Coal Directory
DCL, Incorporated	52	RULMECA HOLDING S.P.A.	139
DSM Shipbrokers / Shiptrade	11	Scantech International	138
EMS-Tech Inc	17	SCHADE Lagertechnik GmbH (AUMUND Group)	103
Geometrica Inc	127	SENNEBOGEN Maschinenfabrik GmbH	Inside Back Cover
Häggglunds	39	Shi.E.L.D. Services srl	27
Italgru S.r.l.	61	SIBRE - Siegerland Bremsen GmbH	9
J & B Grijpers b.v.	131	Steelpaint GmbH	Front Cover
KOCH Solutions GmbH	Back Cover	Superior Industries, Inc.	91
Konecranes Port Solutions - Konecranes GmbH	25	Telestack Limited	73
LD Ports & Logistics	23	Terex Deutschland GmbH	89
Lion Bulk Handling b.v.	21	The CSL Group Inc.	19
Listenow GmbH & Co.	51	TMPB (Terminal de Multiusos do Poço do Bispo)	33
Martin Engineering	Inside Front Cover	Tobu Jukogyo Co, Ltd.	37
MDG Handling Solutions S.r.l.	99	Van Aalst Bulk Handling BV	50
MGB & Company	117	Van Beek	55
Morska Agencja Gdynia Sp. z o.o.	31	Verstegen Grijpers BV	145
MRS Greifer GmbH	53	Vigan	49



DRY CARGO *international*

www.drycargomag.com

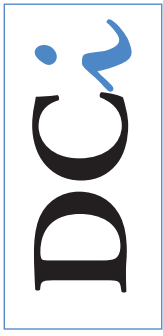
FREE ACCESS to up-to-date news affecting the dry bulk and breakbulk industries

FREE ACCESS to over 200 digital issues of *Dry Cargo International* magazine

FREE ACCESS to the *DCi* online archive search utility

FREE ACCESS to *DCi*'s unrivalled global market coverage

The world's leading and only monthly magazine for the dry bulk industry



COAL HANDLING *directory*

2024

RIKON



- ❖ Shiploaders ❖ Grab Loaders ❖ Grab Unloaders ❖ Grabs ❖ Continuous Ship Unloaders
- ❖ Barge Loaders ❖ Barge Unloaders ❖ Self Unloaders & Equipment ❖ Belt Conveyors/Loaders
- ❖ Stackers ❖ Reclaimers ❖ Stacker Reclaimers ❖ Conveyors & Conveyor Accessories
- ❖ Front-End Loaders ❖ Hoppers ❖ Crushing ❖ Screening ❖ Blending ❖ Weighing
- ❖ Sampling & Inspection ❖ Dust Control & Suppression ❖ Drives, Controls & Automation
- ❖ Enclosed Storage ❖ Stockyard Systems ❖ Railcar Loaders & Unloaders ❖ Containerized Bulk Handling ❖ Engineering Consultants ❖ Coal Handling ❖ Other



PROVIDING THE WORLD'S MATERIAL HANDLING INDUSTRY WITH
EFFICIENT, SAFE AND PRODUCTIVE
COMPLETE CONVEYOR SOLUTIONS



SUPER-SKALPER® BELT CLEANER



GRIZZLY™ SCREW-SPLICE



TRU-TRAINER® TAPERED TROUGH IDLER



“FROM THE
TAIL PULLEY
TO THE
HEAD PULLEY
AND EVERYTHING IN BETWEEN...”

*Ask about our
Conveyor Training
Programs!*

- BELT CLEANERS
- IDLERS
- LOAD ZONE SUPPORT SYSTEMS
- POINT CLOUD SCANNING
- PULLEY LAGGING
- SAFETY EQUIPMENT & GUARDING
- SKIRTBOARD & SKIRTING SYSTEMS
- TRANSFER POINTS DESIGN & FABRICATION
- VULCANIZING EQUIPMENT
- WEAR LINERS



BC-2 CONVEYOR BELT CLEANER



SAFE-GUARD® CONVEYOR GUARDING



ENGINEERED LOAD ZONES

Need Solutions...to improve efficiency, safety and productivity? **ask... ASGCO®**
www.asgco.com | 800.344.4000 | info@asgco.com



RIKON RPS-640 coal handling crane

JSC RIKON — one of the leading suppliers of fully electric double jib level luffing cranes for multipurpose cargo handling, including bulk, general and containers.

E: sales@rikon.lv

W: www.rikon.lv

RIKON



2000 ENGINEERING

Heiligenbloem 8
Nootdorp
Zuid-Holland
The Netherlands
Contact: Mr Edwin Alewijnse
Job Title: President
T: + 31 153 101 144
F: + 31 153 101 145
E: info@2000engineering.com
W: <http://www.2000engineering.nl/>

4B BRAIME COMPONENTS LTD

Hunslet Road
Leeds
West Yorkshire
LS10 1JZ
UK
Contact: Mrs Simone Block
Job Title: Marketing Manager
T: + 44 113 246 1800
F: + 44 113 243 5021
E: 4b-uk@go4b.com
W: www.go4b.com
A leading manufacturer of material handling components for the agricultural and industrial sectors. We provide components for bucket elevators and conveyors, such as steel and plastic elevator buckets, elevator bolts, elevator belting, drop forged chains as well as electronic monitoring equipment, such as level monitors, misalignment switches, bearing temperature monitors, etc.

A.E. AUTOMATION PVT LTD (FACTORY)

DP-307, Sidco Industrial Park
Kattur
Thirumullaivoyal
Chennai
Tamil Nadu State
600 062
India
Contact: Mr Karthikeyan
Job Title: Deputy General Manager
T: + 91 44 2486 2002
E: info@aeauto.net
W: www.aeengineer.net
We are specialized in Bulk material handling and specialized steel design works. Our scope includes design, supply, fabrication and installation. We have local services in South east Asia and

supply worldwide. We serve industries such as Port, Power plants, Fertilizer, sugar plants and Automation Industries. We are also specialized in Wood chip mills Basic engineering, consultancy and full plant supply and installation.

A.E. ENGINEERS (S) PTE LTD

No 42 Upper Dickson Road
Singapore
207499
Singapore
Contact: Mr SM Subra
Job Title: Director
T: + 65 6908 6791
F: + 65 6908 6792
E: info@aeengineer.net
W: www.aeengineer.net
Specialized in bulk material handling systems - Consultancy, Engineering, Procurement, Construction and Commissioning for Plant automation in material handling such as in Port, Cement, Sugar, Fertilizer, Wood chip and Paper mills, Automation and Process industries etc.

AAF INTERNATIONAL

Bassington Lane
Cramington
Northumberland
NE23 8AF
UK
Contact: Mr Stuart Blackburn
Job Title: Marketing Leader
T: + 44 1670 713477
F: + 44 1670 566312
E: apc@aaifgb.com
W: www.aaifintl.com
AAF International is a global leader in environmental solutions that provides dust collection equipment to resolve all types of industrial dust control issues.

AB VOLVO PENTA

Global Marketing Communication
Göteborg
SE-405 08
Sweden
Contact: Ms Anne Bast
Job Title: VP Corporate Communication
T: + 46 16 5415906
F: + 46 31 661271
E: anne.bast@volvo.com

W: <https://www.volvopenta.com/>

ABB AB

Crane Systems
Tvarleden 2
Västerås
72159
Sweden
Contact: Ms Anna Westman
Job Title: Marketing Communication Manager
T: + 46 21 32 14 11
F: + 46 21 34 02 90
E: cranes.sales@se.abb.com
W: www.abb.com/cranes
GPO for fully automatic unloading. Electrical drive and control systems for harbour cranes, including fully digital AC and DC powered drives.

ABBEY ROLLERS LIMITED

Togher Industrial Estate No. 2
Pouladuff Road
Cork
Ireland
Contact: Mrs Martha Murphy
Job Title: Sales and Marketing
T: + 353 21 496 2745
F: + 353 21 431 4898
E: sales@abbeyrollers.ie
W: www.abbeyrollers.ie

ABC ENGINEERING LLC

No.2 Minjiang Rd
Tongshan District,
Xuzhou
Jiangsu Province
China
Contact: Mr Sunny Wang
Job Title: Sales Director
T: +86-138 1443 0017
E: chwanghong@gmail.com
W: <https://abccepc.com/>

ABIAC

Delta House
Meadows Road
Queensway Meadows
Newport
NP19 4SS
UK
Contact: Mr Joe Dudman
Job Title: Director
T: + 44 117 329 4841 / + 44 1633 293000
E: admin@ashtonbulk.com

W: www.ashtonbulk.com/
www.iac-ltd.co.uk

ABILITY ENGINEERING LLC

17852 NW Solano CT
Portland
Oregon
97229
USA
Contact: Mr Ramesh Krishnan
Job Title: President
T: + 1 503 213 4944
E: info@aeengineer.net
W: www.aeengineer.net

ACHENBACH GMBH METALLTECHNIK


Lindstrasse 10
Wilnsdorf
D-57234
Germany
Contact: Mr Uwe Achenbach
T: + 49 2737 98 63 0
F: + 49 2737 98 63 10
E: u.achenbach@achenbach-mt.de
W: www.achenbach-mt.de
Conveyor covers - Achenbach is manufacturing hoods made of metal (steel, aluminium, stainless) for covering standard or special belts. Hoods made of hard-PVC and fixings round up the Achenbach range.

ADVANCE CONVEYING TECHNOLOGIES, LLC

171 Kings Road
Kings Mountain
North Carolina
28086
USA
Contact: Mr Robert Decker
Job Title: General Manager
T: + 1 704 710 4001
E: info@act.us.com
W: <https://www.act.us.com>

ADVANCED CONVEYOR TECHNOLOGIES INC (AC Tek)

19415 594th Avenue
Mankato
Minnesota
56001
USA
Contact: Mr David Kruse
Job Title: Vice President
T: + 1 507 345 5748
F: + 1 507 345 4012
E: info@actek.com
W: <http://www.actek.com/>

AFM INTERNATIONAL INC.

Summerland House
Prospect
St. James
BB24003
Barbados
Contact: Ms Camille Merritt
T: + 246 426 2084
F: + 246 426 2087
E: cmerritt@afminternational.com
W: www.afminternational.com
World leader in steel cord belting technologies. Inventor of high angle Autostable Belt® and fully enclosed Square Belt®. Special elastic steel cords, with rubber covers, offer unique solutions to bulk handling problems, eg impact, ripping, high angle troughing, tracking, flexibility, elongation etc.

AG GROWTH INTERNATIONAL (AGI)



1020 East 19th Street
Wichita
KS
67214
USA
Contact: Mr David Wernsing
Job Title: General Manager
T: + 1 316 264 4604
F: + 1 316 264 7965
E: david.wernsing@aggrowth.com
W: www.tramcoinc.com
Manufactures enclosed belt, drag chain and bucket elevators for industrial markets. The JetBelt conveyor is a belt

supported by a cushion of air between the belt and the pan and offers an entirely new level of operating efficiency for dry bulk handling of coal.

AGRICO SALES, INC.

14900 Intracoastal Drive
New Orleans
Louisiana 70129
USA
Contact: Mr Bob Rieck
Job Title: Vice President - Sales
T: + 1 504 436 9400
E: brieck@agricosales.com
W: www.agricosales.com
Design and build turnkey projects for handling a wide range of bulk commodities. Specializes in the manufacture of shiploaders, conveyor systems and storage facilities.

AGUDIO

Via T. Agudio 8
Leini
Torino 10040
Italy
Contact: Mr Daniel Pérez
Job Title: Sales Area Manager
T: + 39 011 072 12 00
E: daniel.perez@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.

AIR SPECTRUM

Spectrum House
Checketts Lane Industrial Estate
Checketts Lane
Worcester
Worcestershire WR3 7JW
UK
Contact: Ms Charlotte Walters
Job Title: Marketing Manager
T: + 44 1905 362100
+44 (0) 1905 362100
E: marketing@airspectrum.com
W: airspectrum.com

AJ EDMOND COMPANY

1530 W 16th Street
Long Beach
CA 90813
USA
Contact: Mr Jignesh Panchal
Job Title: Technical Director
T: + 1 562 437 1802
F: +1 562 590 0482
E: JPanchal@ajedmondco.com
W: www.ajedmondco.com

ALEKON CRANES OÜ

Jaama tee 6
Maardu
74114
Estonia
Contact: Mr V Kuznetsov
Job Title: Sales
T: + 372 6 388 954
E: alekon@alekon.ee
W: alekon.ee

ALEX STEWART INTERNATIONAL CORPORATION LTD

2b Sefton Business Park
Netherton
Liverpool
Merseyside
L30 19SD
UK
Contact: Mr Graham Stewart
Job Title: Managing Director
T: + 44 151 541 1390
E: graham.stewart@alexstewartinternational.com
W: www.alexstewartinternational.com

The Alex Stewart International network of companies provides inspection and delivers fast, reliable and accurate analytical services covering base metals, nonferrous ores and concentrates, minor and precious metals, ferro-alloys, recycled scrap metal, complex materials and plastics, solid fuels including coal and coke, agricultural commodities and also for the environment. Alex Stewart International's inspections include trustworthy supervision, weighing, and sampling services.

ALFRED H KNIGHT

Kings Business Park
Kings Drive
Prescot
Merseyside
L34 1PJ
UK
Contact: Mrs Helen Dunning
Job Title: Head of Marketing and Communications Manager
T: + 44 151 4824 283
E: helen.dunning@ahkgroup.com
W: www.ahkgroup.com/
As a leading provider of inspection and testing services for the solid fuels sector, Alfred H Knight provides specialist services for a wide range of commodities including auditing, sampling, chemical and compositional analysis.

ALMEX GROUP / SHAW**ALMEX INDUSTRIES**

17 Shaw Almex Drive
PO Box 430
Perry Sound
ON
P2A 2W8
Canada
Contact: Ms Susan Moir
Job Title: Vulcanizer Sales
T: +1 800 461 4351
E: sail@almex.com
W: www.almex.com

ALS INSPECTION UK LIMITED

Caddick Road
Knowsley Business Park
Prescott
Merseyside
L34 9HP
UK
Contact: Ms Stacey Bradley
Job Title: Business Development & Marketing Manager
T: + 44 151 548 7777

F: + 44 151 548 0714
E: Stacey.Bradley@alsglobal.com
W: www.alsglobal.com
Alex Stewart are suppliers of quality commodity inspection and laboratory analysis offering cargo supervision, quality and quantity inspection, weighing, sampling, assaying, testing, verification and certification services for the facilitation of international trade.

ALTRA INDUSTRIAL MOTION

300 Granite Street
Suite 201
Braintree
MA
02184
USA
Contact: Mr David Brooksbank
Job Title: Marketing Director (Head Office)
T: + 1 781-917-0600
E: david.brooksbank@altramotion.com
W: altramotion.com

AMECO GROUP

Am Dreispitz, 6
Binzen
79589
Germany
Contact: Mr Alexandre Giess
Job Title: Head Of Global Sales
E: sales@ameco-group.com
W: www.ameco-group.com
Founded in 1932, AMECO Group focuses on the advanced and robust quality design of bulk handling equipment including stackers, reclaimers, and shiploaders. Manufacturing in Europe, we have extensive references on every continent in the cement, commodity food, fertilizer, mining, power generation and pulp and paper industry. AMECO Group - The Power of Know-How.

ANINDYA

Apartemen Mediterania Palace
Residence
Ruko B/OR/C
Jalan Landasan Pacu Utara-Selatan
Kemayoran
Jakarta
Special Region Jakarta
10630
Indonesia
Contact: Mr Irvan Rahman
Job Title: Coal & Mineral Operation Head
T: + 62 21 300 43757
E: irvan.rahman@anindya.biz
W: www.anindya.biz
PT. Anindya Wiraputra Konsult (Anindya) is an Indonesian independent surveying company specializing in Coal Commodity with branches in Jambi, Bengkulu, South Sumatra, South Kalimantan (Banjarbaru and Batulicin), East Kalimantan, North Kalimantan, Central Kalimantan and Jakarta. Our Head Office is located in Bandung, West Java. Anindya is supported by experts in Coal Sampling, Lab Analysis, Marine Survey and Geology. We are confident to deliver superb services to our clients.

ANVIL ATTACHMENTS

PO Box 216
261 Highway 19
Slaughter
Louisiana
70777
USA
Contact: Mr Donnie Fontenot
Job Title: President
T: + 1 225 654 8223
E: dfontenot@anvilattachments.com
W: www.AnvilAttachments.com
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
F: + 1 909 350 4982
E: esunseri@groupactinc.com
W: www.groupact.com
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
F: + 603 5569 2935
E: info@aeengineer.net
W: http://www.aeengineer.net/
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
F: + 49 3334 8193699
E: uwe.gruenhagen@ardelt-kranbau.de
W: https://ardelt-kranbau.de/
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
F: + 27 31 205 9835
E: steve@arlona.co.za
W: www.arlona.co.za
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

27 Skanstes Street
Riga
LV-1013
Latvia
Contact: Mr Kristis Leiskalns
Job Title: Marketing & PR Spokesman
T: + 37 167 334 012
E: kristis.leiskalns@lnk.lv
W: www.lnk.lv

ASGCO "COMPLETE CONVEYOR SOLUTIONS"

730 Bangor Road
Nazareth
PA
18064
USA
Contact: Mr Aaron Gibbs
Job Title: President
T: + 1 610 821 0216
F: + 1 610 778 8991
E: info@asgco.com
W: http://www.asgco.com/
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
South Liberty Lane
Bristol
BS3 2ST
UK
Contact: Mr Joe Dudman
Job Title: Director
T: + 44 117 329 4841
E: admin@ashtonbulk.com
W: www.ashtonbulk.com

ASPEC

PO Box 3075
Queen Brisbane
QLD
4101
Australia
Contact: Mr Richard Morgan
Job Title: Director
T: + 61 7 3193 0400
E: rmorgan@aspec.com.au
W: https://aspec.com.au/

ASTEC

700 West 21st Street
Yankton
South Dakota
57078
USA
Contact: Ms Holly Anderson
Job Title: Marketing Director
T: + 1 423 208 5552
E: HAnderson@astecindustries.com
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: http://www.astecbulk.com/

ATLAS-SSI Co. Inc

PO Box 1969
622 East McPherson Drive
Monticello
Mississippi
MS 39654
USA

Contact: Mr Ashley Watson
Job Title: Sales Manager - Buckets
T: + 1 601 587 4511 ext 212
F: + 1 601 587 5393
E: ashley@atlas-ssl.com
W: www.atlas-ssl.com
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
F: + 49 2843 60270
E: info@aumund.de
W: www.aumund.com
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

Level 10
55 Grenfell Street
Adelaide
South Australia
5000
Australia
Contact: Mr Stephen Symons
Job Title: Development Manager
T: + 61 8 8237 9905
F: + 61 8 8237 9778
E: SymonsS@ap.aurecongroup.com
W: www.aurecongroup.com

AURECON

PT Aurecon Indonesia
Sequis Tower, 6th Floor, Unit 6
Jalan Jenderal Sudirman Kav. 71,
SCBD Lot 11B
Jakarta
12190
Indonesia
Contact: Mr Jeff Tuttici
Job Title: Project Engineering Consultant
T: + 62 21 5099 1060
F: + 62 21 5087 6767
E: Jeff.Tuttici@aurecongroup.com
W: www.aurecongroup.com
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

7-9 Zinonios
Athens
10431
Greece
Contact: Mr Tassos Lainas
Job Title: Managing Director
T: + 30 6983419474
E: axi1@otenet.gr
W: www.axiochos.gr

B.V. BECO

Industrieterrein "De Biezen"
Vianen
Utrecht
4131 - NR

The Netherlands
Contact: Mr Henk van Vuren
Job Title: Managing Director
T: + 31 347 323 100
F: + 31 347 377 780
E: h.vanvuren@beco-group.com
W: www.beco-group.com
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.

BASIC MACHINERY Co. Inc.

PO Box 688
1220 Harold Andrews Road
Siler City
NC
27344
USA
Contact: Mr Hal Milholen
Job Title: Vice President of Sales & Marketing
T: + 1 888 522 7420
E: hm@basicmachinery.com
W: www.basicmachinery.com

BATEMAN MANUFACTURING

5 Winstar Rd
Oro-Medonte
ON
L0L 2L0
Canada
Contact: Mr Mark Vandenberg
T: + 1 705 487 5020
E: mail@batemanmanufacturing.com
W: http://batemanmanufacturing.com

BAUER GEAR MOTOR GmbH

Eberhard-Bauer-Str. 37
Esslingen
73734
Germany
Contact: Mr Philip Crowe
T: + 49 711 3518276
F: + 49 711 3518381
E: info@bauergears.com
W: www.bauergears.com/

BEDESCHI SPA

Via Praimbole, 38
Limena
Padova
35010
Italy
Contact: Ms Elena Marcato
Job Title: Marketing & Communication Manager
T: + 39 049 766 3100
F: + 39 049 884 8006
E: marketing@bedeschi.com
W: www.bedeschi.com
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.

Room 511, No.3 Building
Unit 2, Xingmao Center,
Greenland Central Plaza
Xinghua Street
Daxing District
Beijing
102627
China
Contact: Ms Selena Bai
Job Title: International Sales
T: + 86 010 6342 3819
F: + 86 010 6349 7906

E: sales5@hscdtech.com
W: http://www.hscdtech.com

BELT CONVEYOR GUARDING

3478 Penetanguishene Rd
Barrie
Ontario
L4M 4Y8
Canada
Contact: Ms Christine Allen
Job Title: Business Development
T: + 1 866 300 6668
E: safety@conveyorguarding.com
W: https://conveyorguarding.com

BELT TECH INDUSTRIAL

1996 S 300 W
Washington
IN
47501
USA
Contact: Mr Jordan Russell
Job Title: CEO
T: + 1 812-258-5959
F: + 1 812-674-4192
E: Jordanr@belttech1.com
W: www.belttech1.com

BELTSCAN SYSTEMS

PO Box 10457
Southport
Queensland
4215
Australia
Contact: Mr Robert Janevski
Job Title: Director – Beltscan Systems.
T: +61 0 404 865 466
F: +61 7 5532 0100
W: beltscan.com
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
Contact: Mr Andrés Bendezu
Job Title: General Manager
T: +34 952 807 144
E: info@bendezu.com
W: www.bendezu.com

BENETECH GmbH

Karl Liebkrecht Str 27
b. Leipzig
Deuben
DE-06682
Germany
Contact: Mr Frank Lippert
Job Title: Managing Director
T: + 49 34441 445 0
F: + 49 34441 445 20
E: benetech@gmx.de

BENETECH USA

2245 Sequoia Drive
Suite 300
Aurora
Illinois
60506
USA
Contact: Mr Christopher F Blazek
Job Title: Vice President, Marketing
T: + 1 630 844 1300 x 214
F: + 1 630 844 0064
E: info@benetechusa.com
W: www.benetechusa.com
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
Beckum
North-Rhine Westphalia
D-59269
Germany
Contact: Mr Alexander Tigges
Job Title: Director Sales
Conveying and Loading Systems
T: + 49 2521 24 0
F: + 49 2521 24 280
E: info@beumer.com
www.beumer.com
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
The Hague
Zuid-Holland
2593 BJ
The Netherlands
Contact: Ms Katharina Schönebeck
Job Title: Manager Group Communications
T: + 49 0621 459-0
F: + 49 621 459-2366
E: katharina.schoenebeck@bilfinger.com
W: www.tebodin.bilfinger.com
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

Raiffeisenstr.3a
Langenfeld
40764
Germany
Contact: Mr Michal Bedarczyk
Job Title: Managing Director - Sales
T: + 49 162 69 52 563
E: michal.bedarczyk@bitner-kabel.de
W: http://www.bitner-kabel.de/

BLESTE SIA PORT EQUIPMENT

Sloka T122 (p/b №56)
Jurmala
Sloka
LV-2011
Latvia
Contact: Mr Dinis Hruscovs
Job Title: CEO
T: + 371 29 235 197
E: info@bleste.lv
W: https://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
Azpetia
Guipuzcoa
20730
Spain
Contact: Mr Oscar Oteiza
Job Title: Marketing Manager
T: + 34 943 810 150
F: + 34 943 815 665
E: marketing@blug.es
W: www.blug.es
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 0421
F: + 32 52 30 01 98
E: info@bogaert-transmission.com
W: www.bogaert-transmission.com
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 Bomporto (Modena)
41030
Italy
Contact: Mr Francesco Thione
Job Title: Senior Sales Manager
T: + 39 059 909 412
E: francesco.thione@borghiassali.it
W: http://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.

BOSCH REXROTH AB

Västerselsvägen 12
Mellansel
SE-895 80
Sweden
Contact: Mr Uno Sundelin
Job Title: Director, Industry Sector Management
T: + 46 660 87000
F: + 46 660 87160
E: info@boschrexroth.se
W: www.boschrexroth.com
Hydraulic direct drives from Hägglunds give you a straight

path to high performance, through shaft-mounted hydraulic motors, freely placed drive units and intelligent control. Powerful, compact and utterly reliable, our drive systems change the game in the toughest applications. But their greatest strength is the team behind them, committed to your productivity.

BOSCH REXROTH AG

Zum Eisengießer 1
Lohr am Main
97816
Germany
Contact: Mrs Julia-Jacqueline Klein
T: + 49 9352 18 4401
F: + 49 9352 40 4885
E: Julia.Jacqueline.Klein@boschrexroth.de
W: www.boschrexroth.com

BOSSTek

1607 W. Chanute Rd.
Peoria
IL
61615
USA
Contact: Mrs Brooke Carlson
Job Title: Marketing Manager
T: + 1 309 693 8600
F: + 1 309 693 8605
E: brookec@bosstek.com
W: https://bosstek.com/
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
Houston
TX
77041
USA
Contact: Mr John D. Ellis
Job Title: Global Marketing Director
T: + 1 281 517 5400
E: john.ellis@bray.com
W: https://www.bray.com/

BRELKO CONVEYOR PRODUCTS

PO Box 62392
Marshalltown
Johannesburg
Gauteng
2107
South Africa
Contact: Ms Sharon Padayachee
Job Title: Sales & Marketing
T: + 27 11 013 4000
F: + 27 11 013 4150
E: sharon@brelko.com
W: www.brelko.com
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.

Molendijk 167
Nieuwe Tonge
3244 AM
The Netherlands
Contact: Mr Jaap Abresch
Job Title: Managing Director
T: + 31 187 651432
E: joost@breston.nl
W: http://www.breston.com

BRIDON-BEKAERT ROPEFS GROUP

GLOBAL HQ

Bekaertstraat 2
Zwevegem
BE 8550

Belgium
Contact: Mr Ward van Rijckeghem
Job Title: Director Group Branding & Communications
T: +32 56 766 610
E: Ward.vanrijckeghem@bekaert.com
W: www.bridon-bekaert.com
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

Box 46
Arbrå
SE-821 27
Sweden
Contact: Mr Bo Ljung
Job Title: Sales Manager
T: + 46 70 348 41 18
E: bo.ljung@bruks.com
W: http://www.bruks-siwertell.com/

BRUKS SIWERTELL AB

Angsvägen 5
Bjuv
Gunnarstorp
Bjuv
SE-267 90
Sweden
Contact: Ms Malin Pekberg
Job Title: Marketing Manager
T: + 46 428 5880
E: malin.pekberg@bruks-siwertell.com
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.

BRUKS SIWERTELL AB

5975 Shiloh Road
Suite 109
Alpharetta
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.

BSP ENGINEERING S.R.L

Via Apollo 11, n 39
Frazione Santa Maria di Zevio (VR)
Verona VR 37050
Italy
Contact: Ms Daniela Viviani
T: + 39 045605 1199
F: + 39 045605 1196
E: info@bspengineering.it
W: www.bspengineering.it

BTW PLANT SOLUTIONS - A

DIVISION OF BT-WOLFGANG BINDER GmbH

Wolfgang Binder Str. 4
Eggersdorf bei Graz
8200
Austria
Contact: Ing. Johann Buchgraber
Job Title: Head of Sales
T: + 43 3117 25152 2272
E: office@btw-plantssolutions.com
W: www.btw-binder.com

BULK CARGO HANDLING BVBA

Nijverheidskaai 28
Bus 9
Brussels 1080
Belgium
Contact: Mr Nicola Samyn
Job Title: CEO
T: + 32 477 44 98 81
E: bch.belgium@gmail.com

BULK MATERIAL EQUIPMENT

8122 Threadtail
Conroe
Texas 77385, USA
Contact: Mr Thomas Meade
Job Title: President
T: + 1 214 601 2577
E: thomas@bulkmaterialequipment.com
W: bulkmaterialequipment.com

BULK STORAGE INC

28101 S Yates Av
Beecher
Illinois 60401-3603
USA
Contact: Mr Zack Deery
T: + 1 708 946 9595
F: + 1 708 946 7898
E: zack@bulkstorageinc.com
W: www.bulkstorageinc.com/

BUREAU VERITAS

Unit D1
Wheaton Road
Witham
Essex CM8 3UJ
UK
Contact: Mr Mehmet Günsur
Job Title: Global Sales & Marketing Manager
T: +44 1376 536 849
E: Mehmet.Gunsur@inspectorate.com
W: commodities.bureauveritas.com
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.

BUREAU VERITAS

12000 Aerospace Avenue
Suite 200
Houston
Texas 77034
USA
Contact: Mr Marlon Guillery
Job Title: Assistant Manager - Metals & Minerals
T: + 1 504 418 1362
E: MM_Marketing@inspectorate.com
W: www.inspectorate.com

BUTTIMER ENGINEERING

Cahir Business Park
Cahir
Co. Tipperary
E21 W240
Ireland

Contact: Mr Declan McGrath
Job Title: Sales Director
T: + 353 52 744 1377
E: info@buttimer.ie

W: https://www.buttimer.com
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.

BVS CRANES

Organize Sanayi Bölgesi
Oğuz Cad. No:21
Sincan
Ankara
06935
Turkey

Contact: Mr Akin Önder Topuz
Job Title: Business Development & Marketing Manager
T: +90 312 267 29 29
F: +90 312 267 02 95
E: akin@bvs.com.tr
W: https://www.bvs.com.tr/

C SPENCER LTD

One Humber Quays
Wellington Street West
Hull
HU1 2BN
UK

Contact: Mr Ian Atkinson
Job Title: Engineering Director
T: + 44 1482 766 340
E: marketing@thespencergroup.co.uk
W: https://thespencergroup.co.uk

CABLE FACTORY BITNER

Zakady Kablowe BITNER
SP.z.o.o
3/3 Józefa Friedleina Street
Kraków
30-009
Poland
Contact: Mr Marcin Strojny
Job Title: Export Sales Director
T: + 48 500 048 664
E: marcin.strojny@bitner.com.pl
W: http://www.bitner.com.pl/

CACHAPUZ - WEIGHING & LOGISTICS SYSTEMS, LDA

Parque Industrial de Sobreposta
Apartado 2012
Braga
Braga
4701-952
Portugal
Contact: Mrs Juliana Silva
Job Title: Marketing Assistant
T: + 351 253 603 480
F: + 351 253 603 485
E: marketing@cachapuz.com
W: www.cachapuz.com
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
F: + 90 216 399 79 71
E: info@calimkepc.com.tr
W: www.calimkepc.com.tr
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.

CAMBELL 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@campbell.com
W: www.cambell.com
Campbell 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: Ms Eva Barrilero
Job Title: Sales Manager
T: + 34 91 634 71 92
F: + 34 91 636 21 15
E: barrilero@capotex.com
W: www.capotex.com

CATERPILLAR (UK) LTD.

Peckleton Lane
Desford
Leicester
LE9 9JT
UK
Contact: Ms Kim Dunn
Job Title: Technology Marketing Communications Consultant
E: Dunn_Kim@cat.com

CATERPILLAR SARL

Route de Frontenex 76
Geneva
12017
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
F: + 41 91 922 54 00
W: www.cavotec.com
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

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
F: + 1 763 428 9701
E: sales@cdmsys.com
W: www.cdmsys.com
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.

CENTRIC

2325 N. Hullen Street
Metairie
LA
70001
USA
Contact: Mrs Mariana Coudrain
Job Title: Marketing Coordinator
T: + 1 5042672800
E: info@centricgc.com
W: www.centricgc.com

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
F: + 86 731 4012074
E: susanky@chs5e.com
W: www.cckic.net

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
F: + 86 10 63919548
E: chenq@chec.com.cn

W: www.hhi.com.cn;
www.chec.com.cn
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
F: + 39 039 53200 24
E: jelena.pavlovic@cicsa.com
W: www.cicsa.com
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@agcocorp.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: http://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 LLC

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.

CIVETTINI 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
F: + 49 4161 706 270
E: projects@claudiuspeters.com
W: www.claudiuspeters.com
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 Hoffert
Job Title: Sales Director
T: + 33 389 31 33 19
F: + 33 389 61 95 25
E: technologies@claudiuspeters.com
W: www.claudiuspeters.com
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
F: + 44 1642 753270
E: enquiries@clevelandcascades.co.uk
W: www.clevelandcascades.co.uk
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 Shouti South Road
Beijing
100048
China
Contact: Mr Wang Lin
Job Title: Bulk Handling Division Manager
T: + 86 10 68796130
F: + 86 10 68796029
E: cbmie@cbmie.com
W: www.cnbmengineering.com/

COAL CONTROL

Reisholzstraße 15
Hilden
40721
Germany
Contact: Mr Ronald Salzmann
T: + 49 21 03 951 882
F: + 49 21 03 951 839
E: info@coal-control.de
W: http://www.coal-control.com

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.

COLES ASSOCIATES

PO Box 5096
Dalkeith
Western Australia
6009

Australia
Contact: Mr Richard Coles
Job Title: Manager Business Development
T: + 61 8 9389 8484
F: + 61 8 9386 5700
E: rcoles@colesassociates.com.au
W: www.shiploader.com.au
Specialising in acquisition, divestment and relocation and of pre-owned mining and infrastructure equipment worldwide.

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
F: + 61 3 9794 9298
E: sales@conductix.com.au
W: www.conductix.com.au
Conductix-Wamfler 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
F: + 1 402 339 9627
E: ernesto.heller@conductix.com
W: www.conductix.us
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
F: + 49 7621 662 144
E: info.de@conductix.com
W: www.conductix.com
Conductix-Wamfler 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
F: + 1 901 388 2534
E: mail@continentalconst.com
W: www.continentalconst.com
Continental Construction Company, Inc. is a general contractor specializing in slip form concrete construction, pile driving, structural steel erection, lightweight 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
F: + 421 42 461 3365
E: dusan.michalko@matador.sk
W: www.matador.sk
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
F: + 612 8708 0280
E: iburrell@controlsystems.com.au
W: www.controlsystems.com.au/
CST design and manufacture 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: https://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. Ožekienės 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: https://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.

COOPER MARINE & TIMBERLANDS

24371 Saxson Ct
 Daphne
 AL
 36526
 USA
Contact: Mr Windell Landry
Job Title: Senior Vice President
T: +1 225 362-6633

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

58, rue de la Terrasse
 Geneva
 1207
 Switzerland
Contact: Ms Coline Quinty
Job Title: Operations & Marketing Officer
T: +41 22 849 78 44
E: Communication@cotecna.com
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
F: + 27 31 466 4399
E: banzi@cpsprojects.co.za
W: cpsprojects.co.za
Port related services offered by CPS Projects as IF: -Maintenance Contracts (including labour supply) - Electrical and automation services -Structural repairs, equipment overhauls and upgrades -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
 Xincheng Industrial Park
 Xuejia
 Changzhou
 Jiangsu
 China
Contact: Mr Kaisen Xu
Job Title: Manager
F: + 86 519 8188 6887
E: info@craneschina.cn
W: www.craneschina.cn

CROMEX MAKINE VE DIS TICARET LTD. STI.

Ayşe Cavus Caddesi No: 17/1
 Süadiye
 Istanbul
 34740
 Turkey
Contact: Mr Ozan Ozkan
Job Title: General Manager
T: + 90 216 415 47 00
F: + 90 216 417 47 65
E: info@cromexgrab.com
W: https://www.cromexgrab.com

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
F: + 86 21 6539 7400
E: info@tts-huahai.com

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
F: + 1 936 539 5355
E: kmathis@cstindustries.com
W: www.cstcovers.com
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
F: + 1 913 621 2145
E: sales@cst-storage.com
W: www.cstindustries.com
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
F: + 1 604 637 2276
E: dave.lidder@cwaengineers.com
W: www.cwaengineers.com
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 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
F: + 86 411 86852398
E: wangchang@dhdicw.com
W: http://www.dhhi.com.cn/

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
F: + 86 13555915570
E: lanwenliang@dlstarteng.com
W: www.dlstarteng.com
More than 20 years of experience in bulk material handling system. Our expertise, your success.

DCL, INCORPORATED



08660 Ance Road
 Charlevoix
 MI
 49720
 USA
Contact: Mr Kyle Smith
T: + 1 231 547 5600 Ext 3124
F: + 1 231 547 3343
E: sales@dcclinc.com
W: www.dcclinc.com
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
F: + 31 115 481 234
E: peter@dereggt.com
W: www.dereggt.com
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
Job Title: Marketing
T: + 49 2741 9488 0
F: + 49 2741 9488 44
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
F: + 1 610 695 9724
E: sales@DeltaDucon.com
W: http://www.deltaducon.com/
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
F: + 49 2335 92 7676
E: reiner.derhardt@demagcranes.com
W: www.demagcranes.com

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
F: + 1 815 344 2223
E: Sales@DeMarcoVacuums.com
W: www.DeMarcoVacuums.com
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.

DEMCOTECH 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
F: + 27 11 608 4251
E: info@DemcoTECH.com
W: www.DemcoTECH.com
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
F: + 49 381 4407 10 931
E: info@dgwl.de
W: www.dgwl.de

DISAB VACUUM TECHNOLOGY AB

Akermans väg 24
Box 170
Eslöv
241 23
Sweden
Contact: Mr Hampus Patronen
Job Title: Marketing Coordinator
T: + 46 413 55 43 14
E: hampus.patronen@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.

DMN-WESTINGHOUSE

Gieterij 3
Noordwijkerhout
Zuid-Holland
NL-2211 WC
The Netherlands
Contact: Mrs Tonneke Krempel
Job Title: Manager Marketing Services and PR
T: + 31 252 361 800
F: + 31 252 375 934
E: dmn@dmn-nwh.nl
W: www.dmnwestinghouse.com
Other equipment: Rotary Valves, Diverter Valves. Designs and manufactures rotary valves, diverter valves

and other components. Optionally pressure shock resistant to 10 bar, flame proof also suitable for handling Si2 powders. ATEX compliant to Directive 2014/34/EU. Extensive sales and distribution network, ensures global service and support.

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
F: + 44 1302 881000
E: sales@donvalleyeng.com
W: www.donvalleyeng.com

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: Michel.Reichert@Donaldson.com
W: www.donaldson.com/en-bel/

DONALDSON FILTRATION DEUTSCHLAND GMBH

Industriestraße 11
Dülmen
48249
Germany
T: + 49 2594 781 0
F: + 49 2594 781 21
E: IAF-de@donaldson.com
W: www.DonaldsonToritDCE.com
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.

DOPELMAYR TRANSPORT TECHNOLOGY GMBH

Konrad-Doppelmayr-Str. 1
Wolfurt
Vorarlberg
6922
Austria
T: + 43 5574 604 1800
E: dtl@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.

DPC HYDRAULIC

Via Giulio Natta 1
Reggio Emilia
42124
Italy
Contact: Ms Monica Messori
Job Title: Global Product Marketing Manager
T: + 49 6172 102 450
F: + 49 6172 102 8807
E: monica.messori@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.

DRY-BAG A/S

Dalagarde 1
Aarhus C
DK 8000
Denmark
Contact: Mr Soren
Job Title: Marketing
T: + 45 86 19 0500
F: + 45 86 19 0577
E: production@dry-bag.dk
W: www.desiccant.com

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, Gotthard, 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
F: + 34 985 199 059
E: dfmh@durofelguera.com OR angel.pelegry@durofelguera.com
W: www.durofelguera.com/en/
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
F: + 1 843 846 3701
E: sales@nodust.com
W: www.nodust.com
Manufacturers Dry Fog Dust Suppression Systems for bulk material handling - conveyors, truck & rail dumps, hoppers, feeders, crushers, ship loaders/unloaders. 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, E-Crane Group of Companies
T: + 32 9 3780 444
E: lieven.bauwens@e-crane.com
W: www.e-crane.com
E-Crane International USA offers the E-Crane (Equilibrium Crane) in capacities ranging from 5.5 to 39 (metric) tons and outreach ranging from 24.8 to 47.8 metres (82 to 157 feet) for efficient offloading of bulk commodities.

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
F: + 44 2887 747244
E: info@edgeinnovate.com
W: https://edgeinnovate.com/
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: https://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: Mr Ben Koch
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

F: + 39 0522 951851
E: valentina.magnani@eletrotekkabel.com
W: www.eletrotekkabel.com/

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
F: + 49 27 62/6 12 237
E: Uwe.wurster@emg-automation.com
W: https://www.emg-automation.com/en/

EmiCONTROLS

Via Copernico 6 A
Bolzano
I-39100
Italy
Contact: Ms Monika Zipperle
Job Title: Marketing Manager
T: + 39 0471 089 100
F: + 39 0471 089 110
E: Monika.Zipperle@emicontrols.com
W: https://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
F: + 1 613 966 6710
E: sales@ems-tech.net
W: www.ems-tech.net
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.

EMTICI ENGINEERING Co Ltd

68 Sarat Bose Road
Calcutta
West Bengal
700025
India
Contact: Mr D Sen
T: + 91 33 24761861
F: + 91 33 24761831
E: info@emticon.com
W: www.emticon.com

ENBL (KUNSHAN) MACHINERY Co. Ltd

No. 235 Weijing Road
Qiangdeng 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: https://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: https://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: https://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
F: + 971 4 268 2217
E: sales@equipo.ae
W: http://www.equipoilc.com/
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 EUROPE

Bedwas House Industrial Estate
Bedwas
Caerphilly
CF83 8YG
UK
Contact: Ms Gareth Meese
Job Title: Marketing Executive
T: + 44 29 20 868 501
F: + 44 29 20 851 314
E: Gareth.Meese@eriezeurope.co.uk
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 316566
E: info@eschgroup.nl
W: www.eschgroup.nl/nl/home
A manufacturer (production) of transport rollers, drive and tension drums and import bearings and bearing blocks.

ESI EUROSILO BV

Newtonstraat 26-28
Purmerend
1446 VR
The Netherlands
Contact: Mr Richard Spaargaren
Job Title: Commercial Director
T: + 31 299 630 730
F: + 31 299 630 737
E: sales@eurosilo.com
W: www.eurosilo.com
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 (Eurosilos) 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/

EUROMECC S.R.L.

Via Visano 78/80
Isorella
BS
25010
Italy
Contact: Mr Alessandro Gervasio
Job Title: Head of Sales and Co-owner
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
F: + 31 33 4558149
E: sales@tramco-europe.com
W: www.tramcoinc.com
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
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
F: + 91 22897919
E: nirav_shah@harleygrp.com
W: www.harleygrp.com
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
F: + 971 4 883 5126
E: info@fabtech.ae
W: https://www.fabtechint.com/

FAIRPORT ENGINEERING

Market Place
Adlington
Lancashire
PR7 2QP
UK
Contact: Mr Neil Hyde
Job Title: Managing Director
T: + 44 1257 484000
F: + 44 1257 483312
E: info@airport.co.uk
W: www.airport.co.uk
FEL is the UK market leader in the successful development and delivery of major projects for the coal, quarrying & aggregate and building and concrete product sectors is a company and is continually enhancing its position within the power, alternative fuels and recycling markets.

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
PL 46-200
Poland
Contact: Mr Robert Rulkiewicz
Job Title: Chairman of the board
T: + 48 77 40 70 100
F: + 48 77 418 15 45
E: famak@famak.com.pl
W: www.famak.pl
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 (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
F: + 31 512 585 433
E: info@dunlopbc.com
W: www.fennerdunlopemea.com
Manufactures a full range of textile, aramid and steelcord conveyor belting systems.

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 EUROPE

Marfleet
Hull
Yorkshire
HU9 5RA
UK
Contact: Mr Jim Jones
Job Title: Managing Director
T: + 44 1482 785450
F: + 44 1482 785438
E: jim.jones@fennerdunlop.com
W: www.fennerdunlop.com
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
F: + 44 1482 626522
E: david.fowler@fennerdunlop.com
W: http://www.fenner.com

FLENDER GMBH

Alfred Flender Strasse 77
FLE STR&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
F: + 1 630 971 1180
E: kclancy@flexco.com
W: www.flexco.com
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
F: + 49 7428 9406260
E: europe@flexco.com
W: www.flexco.com
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
F: + 1 610 814 0600
E: sales@flexicon.com
W: https://www.flexicon.com/

FLEXOVEYOR CONVEYOR

3795 Paris St., Unit D
Denver
Colorado
80239
USA
Contact: Mr Bill Priddy
T: + 1 303 375 0200
F: + 1 303 373 5149
E: billpriddy@flexoveyor.com
W: www.flexoveyor.com

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
F: + 91 1166173981
W: www.frigate.in

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
F: + 90 312 4094360
E: industry@gama.com.tr
W: www.gama.com.tr
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: https://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:T.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

CALLE 44B No. 86A-09 INT 202
MEDELLIN
Antioquia
055032
Colombia
Contact: Mr Johny Correa
Job Title: CEO
T: + 57 301 1144826
E: info@gbscolumbia.com
W: https://gbscolumbia.com/
We are a company providing solutions for material transport through conveyor belt systems, equipment as telescopic, 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
F: + 1 815 455 2285
E: info@generalkinematics.com
W: www.generalkinematics.com

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
F: + 91 22 663 83800
E: s.chakraborty@geochem.net.in/
anisa.s@geochem.net.in
W: www.geochem.net.in
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: Sales and Marketing Manager
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
F: + 39 0 2 91 84 31 47
E: info@gfms.it
W: www.gfms.it
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: Director of Operations

T: + 1 501 3747416
F: + 1 501 3767147
E: zjanosky@globalmanufacturing.com
W: www.globalmanufacturing.com
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.

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
Emakulam
Bengaluru
Kerala
683105
India
Contact: Mr A.M Sherif
Job Title: CEO
T: + 91 8048764863
E: essarinds@gmail.com
W: http://grapplersindia.com

GRUPO NAVEC

c/Peña Sal6n 33, Llanera,
Asturias, Spain
Llanera
Asturias
33192
Spain
Contact: Mr Arturo Fernandez
Job Title: Bidding Handling Engineer
T: + 34 661440288
E: aferandezr@gruponavec.com
W: www.gruponavec.com

GÜNTER JUNG GMBH

BiggestraÙe 43
Olpe
57462
Germany
Contact: Mr Günter Jung
Job Title: Owner
T: 02761/5285
E: info@steinbruch-jung.de
W: http://www.steinbruch-jung.de

GURTEC GMBH

Gurtecstrasse 3
Schöppenstedt
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 Doug Anderson
Job Title: Sales and Marketing Manager
T: + 44 1775 765300
F: + 44 1775 765304
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
F: + 90 262 743 1141
E: info@guvengrab.com
W: www.guvengrab.com
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

Heerstrasse 66
Herne
44653
Germany
Contact: Mr Björn Peters
Job Title: Head of Marketing
T: + 49 2325 9220
F: + 49 2325 71110
E: bjoern.peters@vulkan.com
W: https://www.vulkan.com/

HANGZHOU HUAXIN MECHANICAL & ELECTRICAL

ENGINEERING Co., LTD.
No. 315 Jimpeng Road
Xihu Science and Technology Economic
Town Sandun
Hangzhou
310030
China
Contact: Mr Min Rui
Job Title: Vice General Manager
T: + 86 571 28251588
F: + 86 571 28251388
E: huaxin@huaxinhz.com
W: www.huaxinhz.com

HAPMAN

5944 East N Avenue
Kalamazoo
MI
49048
USA
Contact: Mr Matt Richardson
Job Title: Vice President
T: + 1 269 343 1675
F: + 1 269 349 2477
E: sales@hapman.com
W: www.hapman.com
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
Yakacak Kartal
Istanbul
81100
Turkey
Contact: Mr Osman Nuri Mete
Job Title: Manager
T: + 90 216 452 9787
F: + 90 216 452 9790
E: osman.mete@hasel.com
W: www.hasel.com

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: Director BMH Products
T: + 49 1602832662
E: matthias.goeking@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

Eichwiesening 11
Stuttgart
70567
Germany
Contact: Mr David Sasko
Job Title: CEO
T: + 49 711 725 89-0
F: + 49 711 725 89-50
E: david.sasko@hauk-sasko.de
W: http://www.hauk-sasko.de/en/

HAULDER S.A.

Pasaje Echevarriarza 3535
Torre A-Oficina 1602
Montevideo
11300
Uruguay
Contact: Mr Paul Idzerda
Job Title: Comercial Manager
T: + 54 911 70080449
E: paul.idzerda@haulder.com
W: www.haulder.com

HAYER & BOECKER NIAGARA

225 Ontario St.
St. Catharines
Ontario
L2R 7B6
Canada
Contact: Mrs Karen Thompson
Job Title: President
T: + 1 905 688 2644
F: + 1 905 688 6940
E: info@haverniagara.ca
W: www.haverniagara.com
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
MAINTSINEN 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
F: + 49 23 77 1028
E: weber@heko.com
W: http://www.heko.com

HENAN SRON SILO ENGINEERING Co., LTD.

F10, Xin'ao Plaza,
No.2 of Commercial Inner Loop road,
Jinshui district,
Zhengzhou
Henan
450000
China
Contact: Ms Xing Fang
Job Title: Brand manager
T: + 86 371 63253880
E: brand@srn.cn
W: https://www.grainsilo.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
F: + 1 724 758 1558
E: heylpatterson@hallindustries.com
W: http://www.heylpatterson.com
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 Sencini
Job Title: Managing Director
T: + 39 0522 1756 017
F: + 39 0522 271 015
E: info@hitsrl.com
W: https://www.hitsrl.com

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
F: + 31 20 33 44 045
E: info@hitachim.eu
W: www.hitachim.eu
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, manufactures, 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, Hayseeh Road
Halesowen
West Midlands
B63 3PD
UK
Contact: Mr Alan Bowler
Job Title: Managing Director
T: + 44 121 550 2218
F: + 44 121 550 2243
E: rollersales@conveyor-units.co.uk
W: www.horizonconveyors.co.uk
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
F: + 49 2361 5898 40
E: mail@hosch.de
W: www.hosch-international.com
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.

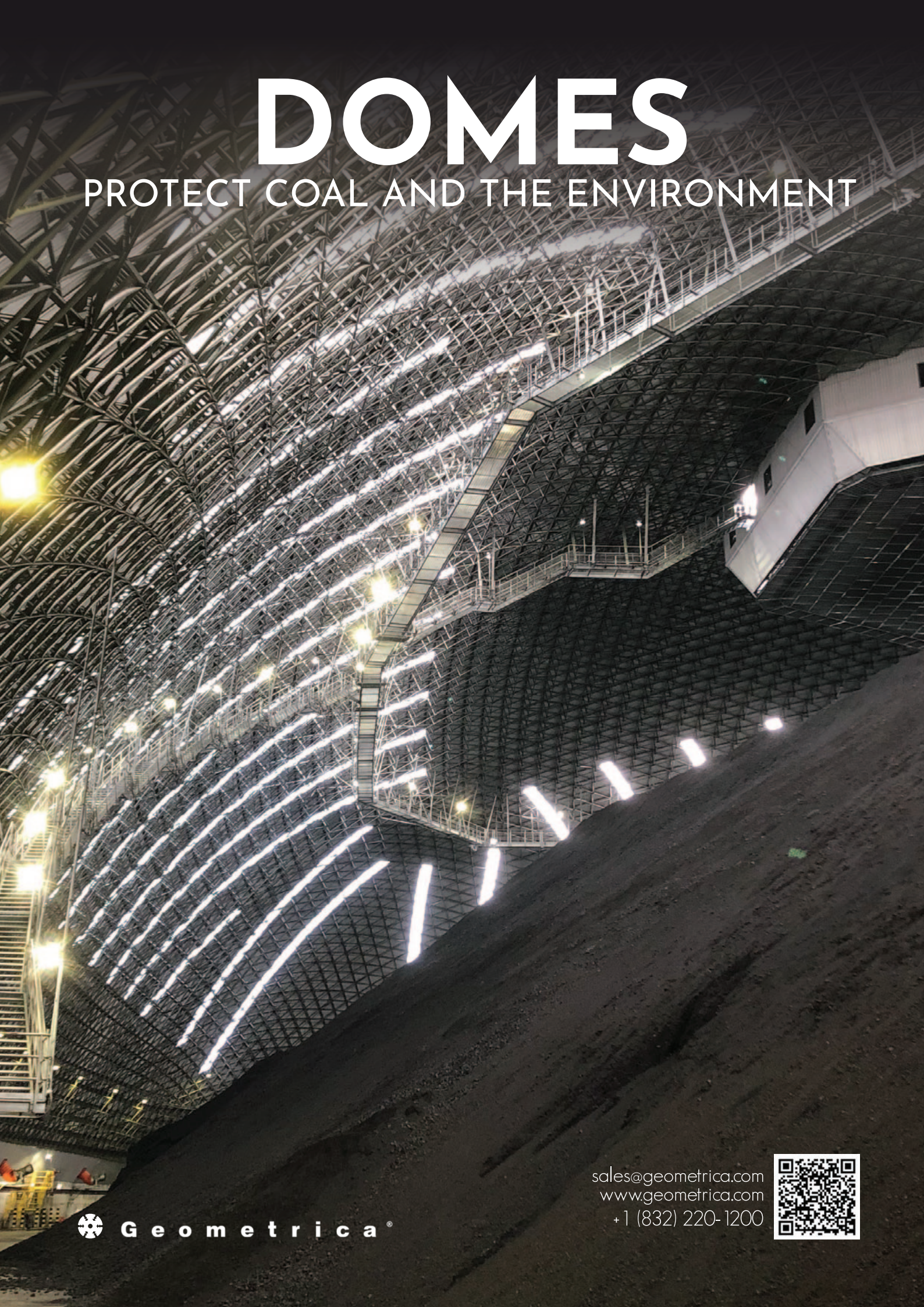
20 Park Road
Richmond
Johannesburg
2109
South Africa
Contact: Mr Derek Colyn
Job Title: Managing Director
T: +27 11 482 0088
F: +27 11 482 8939
E: derek.colyn@huebner.co.za
W: www.huebner.co.za


HYCONTROL LIMITED

Larchwood House
Orchard Street
Redditch
Worcestershire
B98 7DP
UK
Contact: Mr Mark Stevenson
Job Title: Marketing Administrator
T: + 44 1527 406800
F: + 44 1527 406810
E: sales@hycontrol.com
W: www.hycontrol.com
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

DOMES

PROTECT COAL AND THE ENVIRONMENT



 **Geometrica**®

sales@geometrica.com
www.geometrica.com
+1 (832) 220-1200



YOU ARE RUNNING A TIGHT SHIP

Now let's tell the world.



To find out how you can benefit from
advertising in the world's only monthly
dry bulk publication contact

Andrew Hucker-Brown on:

T: +27 31 583 4360

E: info@dc-int.com

W: www.drycargomag.com

measurement, silo protection.

IBAU HAMBURG

Roedingsmarkt 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
W: www.icc-commonwealth.com

ICCE D.O.O.

Oblakovska 21
Belgrade
11000
Serbia
Contact: Mr Filip Sisko
Job Title: Business Development Director
T: + 381 11 3691 690
F: + 381 11 3691 777
E: filip.sisko@icce.com
W: www.icce.com
Other equipment also includes: Ehouses, operator cabins, MV switchgear, LV Switchgear, everything electrical

IEM FÖRDERTECHNIK GmbH

IndustrieStraße 1
Kastl (Kemnath)
D-95506
Germany
Contact: Mr Ralf Zander
Job Title: Managing Director
T: + 49 96 42 800
F: + 49 9642 80101
E: info@iem.eu
W: www.iem.eu

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
F: + 49 2203 9649 222
E: cranes@igus.de
W: https://www.igus.com/
Products include E-ChainSystems - in operation on Ship to Shore Cranes, RTGs, RMGs, Goliath Cranes, Spreaders, Reach Stacker etc. More than 3.000 port equipment applications are running world-wide with igus®

E-ChainSystems.

IHI TRANSPORT MACHINERY Co., Ltd. (IUK)

8-1 St Luke Tower
Akashi Cho
Chuo-Ku
Tokyo
104-0044
Japan
Contact: Mr Jin Xingyu
Job Title: Overseas Sales Department
T: + 81 3 5550 5375
F: + 81 3 5550 5366
E: jin9169@ihi-g.com
W: www.iuk.co.jp
*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.*

IMA ENGINEERING LTD

Sinikalliontie 3 B
Espoo
02630
Finland
Contact: Mr Ville Hakala
Job Title: VP, Sales & Marketing
T: + 358 07 049 290
E: ville.hakala@ima.fi
W: https://ima.fi/

IMASA

Palacio Valdes 1
Oviedo (Asturias)
33002
Spain
Contact: Mr Amancio Garcia
T: + 34 985 22 71 78
F: + 34 985 22 25 98
E: amancio.garcia@imasa.com
W: www.imasa.com

IMECA CRANES

Kruisweg 643
Hoofddorp
2132 NC
The Netherlands
Contact: Mr Mattijs Faber
Job Title: Business Development Manager
T: +31 20 6556385
F: +31 20 6550040
E: contact.imeca@reel.fr
W: www.imeca-reel.com
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
Bavaria
91350
Germany
Contact: Mrs Christina Straubmeier
Job Title: Executive Assistant Sales
T: + 49 9193 6395 1481
F: + 49 9193 6395 1140
E: mail@imo.de
W: https://www.imo.de/en/

IMPERIAL CONVEYING SYSTEMS

4155 Martindale Rd., NE
Canton
OH
44705
USA
Contact: Mr Jason Landes
Job Title: Sales
T: + 1 330 491 3200
F: + 1 330 491 3204
E: jlandes@imperialconveyingsystems.com
W: www.imperialconveyingsystems.com
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
F: + 31 1866 10552
E: leo@incolab.com
W: www.incolab.com
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
52070
Germany
Contact: Dr Christian Augustin
T: + 49 241 538 0700
E: christian.augustin@indurad.com
W: www.indurad.com
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 SAC

Calle Germán Schreiber
Gulsmanco 276 San Isidro
Lima
15021
Peru
Contact: Mr Dan Hidalgo
Job Title: Ingeniero Eléctrico
T: + 51 993532560
E: dhidalgo@inenco.pe
W: www.inenco.pe

INNOMOTICS GmbH

Vogelweiherstr. 1 – 15
Nuremberg
90441
Germany
Contact: Ms Julia Ebenberger
Job Title: Communications
T: + 49 911 958 0
E: julia.ebenberger@innomotics.com
W: https://www.innomotics.com/

INOCON INDUSTRIAL PLANTS

Industriestraße 18
Attang-Puchheim
A-4600
Austria
Contact: Mr Reinhard Eder
Job Title: Managing Director
T: + 43 7674 / 21800 – 290
E: r.eder@inocon-ip.at

W: www.doubrava.at

INSTRAL B.V.

Platinastraat 33
Lelystad
Flevoland
8211AR
The Netherlands
Contact: Mr Nils Janbroers
Job Title: General Manager
T: + 31 3 2041 5591
E: contact@instral.com
W: http://www.instral.com/
*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.*

INTERMODAL SOLUTIONS GROUP

Núñez de Vela N36-193 y NNUU
Edificio Doral 2
Quito
Pichincha
EC170135
Ecuador
Contact: Mr Gustavo Delgado
Job Title: Ecuador & Colombia Country Manager
T: + 593 981944957
F: + 61 2 8883 5195
E: gdelgado@isgpts.com
W: www.pittoship.com
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 gyrotary 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.

INTERMODAL SOLUTIONS PTY LTD

Building Unit 210
33 Lexington Drive
Bella Vista
Sydney
NSW
2153
Australia
Contact: Mr Garry Pinder
Job Title: Managing Director
T: + 61 400 035 548
E: gpinder@isgpts.com
W: www.pittoship.com/

INTERNATIONAL CRANE FACTORY

8 Patrice Lumumba St.,
Latin District
Alexandria
Egypt
Contact: Mr Hassan Mokhless
Job Title: Commercial Director
T: + 2 03 4953925
E: hmokhless@icfi.com
W: https://icfeg.com/

ISAM AG GESELLSCHAFT FUER ANGEWANDTE KYBERNETIK

Alexanderstrasse 46
Mülheim an der Ruhr
45472
Germany
Contact: Mr Christian Hacks
Job Title: Chief HR & Operating Officer
T: + 49 208 495 85 0
E: info@isam-ag.de
W: www.isam-ag.de
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.

ISKAR MÜHENDISLIK LTD

Ilke Sok. 7/6 Bostanci - Kadikoy
Istanbul
34744
Turkey
Contact: Mr Taner Güneş
Job Title: General Manager
T: + 90 216 3733224
F: + 90 216 3724959
E: iskarltd@iskarltd.com
W: www.iskarltd.com
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

Rua Cristiano Franca Teixeira
Guimaraes, 265
Bairro Cinco
Contagem
Minas Gerais
CEP 32010-130
Brazil
Contact: Mr Jose Rubem Almeida
T: + 55 31 2128 2600 / 2641
F: + 55 31 2128 2690
E: info@isomont.com
W: www.isomonte.com.br
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

ITALGRU
PORT & OFFSHORE CRANES

4 Via Briantea
Ambivere
(BG)
24030
Italy
Contact: Mr Fabrizio Bonfanti
Job Title: C.E.O.
T: + 39 035 4932 411
F: + 39 035 4932 409
E: info@italgru.com
W: www.italgru.com
Italgru - more than 60 yeears of crane design and manufacturing experience



J & B GRIJPEERS B.V.

Rijksweg 32
Utrecht
Utrecht
3545 NA
The Netherlands
Contact: Mr Edgar Jousstra
Job Title: Director
T: + 31 3066 21616
E: info@jb-grijpers.nl
W: https://jb-grijpers.nl/
Designs, engineers and manufactures mechanical and hydraulic grabs for all kinds of bulk material.

JACOBS

1100 112th Avenue NE
Suite 500
Bellevue
Washington
98004
USA
Contact: Mr Christopher Best
Job Title: Maritime Global Technology Lead for Dry Bulk
T: + 1 206 434 1699
E: christopher.best@jacobs.com
W: http://www.jacobs.com
Jacobs leads global professional engineering services, delivering solutions for a more connected, resilient, and sustainable world. Our talent force of more than 55,000 provides broad capability across project delivery, technical, environmental, and scientific areas to our clients.

JAMES A. REDDING COMPANY

733 S. Center Avenue
Somerset
PA
15501
USA
Contact: Mr Brian Putman
T: + 1 814 444 7200
F: + 1 814 445 1320
E: salesinfo@jamesaredding.com
W: www.jamesaredding.com/

JANSEN & HEUNING

Bulk Handling Systems
Duinkerkenstraat 11
Groningen
9723 BN
The Netherlands
Contact: Mr Bart Klomp
Job Title: Marketing & Sales
T: + 31 50 312 64 48
F: + 31 50 313 80 18
E: bk@jh.nl
W: www.jh.nl

JENIKE & JOHANSON INC.

400 Business Park Drive
Tyngsboro
MA
01879
USA
Contact: Ms Sinah Watts
Job Title: Marketing Manager
T: + 1 978 649 3300 (ext. 127)
E: swatts@jenike.com
W: www.jenike.com
Jenike & Johanson is the world's leading company in powder and bulk solids handling, processing, and storage technology. Over the past almost 60 years, we've tested over 19,000 unique powders and bulk solids and worked on more than 9,000 projects, giving our team the broadest real-world and in-depth experience in the industry to address a wide variety of bulk material handling and engineering needs.

JFE ENGINEERING CORPORATION

Marunouchi Trust Tower North
1-8-1 Marunouchi
Chiyoda-ku
Tokyo
100-0005
Japan
Contact: Mr Hayato Nakazono

Job Title: Manager
T: + 81 3 6212 0800
F: + 81 3 6216 0802
E: nakazono-hayato@jfe-eng.co.jp
W: www.jfe-eng.co.jp/en/

JIANGSU QUNSHUO HEAVY INDUSTRY EQUIPMENT CO

No.95, QianLuo Road
QianQiao Street
HuiShan District
Wuxi City
JiangSu
China
Contact: Miss Alice Chen
Job Title: Sales Department Manager
T: + 86 510 8321 2288
E: marketing@qshi-china.com
W: https://www.qshi-cn.com/

JIANGSU RAINBOW HEAVY INDUSTRIES Co., Ltd.

NO.9,Zhenxing West Road
Nantong Economic & Technological Development Zone
Nantong
Jiangsu
China
T: + 86 513 85328000
F: + 86 513 85328261
W: http://en.rainbowco.com.cn/

JIANGSU ZDPM MANUFACTURER Co.,Ltd

No. 38, Fuchun River Road
Changshu City
Jiangsu Province
215533
China
Contact: Jin Fumin
T: + 86 0512 529 36333
E: jszdgj@163.com
W: http://www.zdpmchina.com/

JIMWAY ENTERPRISE Co., Ltd

No.17 Chang Tai Street
Hsiao Kang Dist.
Kaohsiung
81266
Taiwan
Contact: Mr Guillermo Su
Job Title: Int'l Sales Section Manager
T: + 886 7 8718126
F: + 886 7 8718128
E: jw@roller.com.tw
W: www.roller.com.tw
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.

JOHANNES HÜBNER FABRIK ELEKTRISCHER MASCHINEN GMBH

Siemensstrasse 7
Giessen
D-35394
Germany
Contact: Mr Maja Seibert
Job Title: Marketing Manager
T: + 49 641 79 69 0
E: info@huebner-giessen.com
W: www.huebner-giessen.com
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

100 East Wisconsin Avenue
Milwaukee
WI
53202

USA
Contact: Ms Caley Clinton
Job Title: Director of Corporate Communications
T: + 1 414 319 8500
E: caley.clinton@global.komatsu
W: www.joyglobal.com/

KALENBORN KALPROTECT GmbH & Co. KG

Asbacher Str 50
Vettelschoss
D-53560
Germany
Contact: Mr Thomas Serr
Job Title: Head of Corporate Communication and Marketing
T: + 49 26 45 18 201
F: + 49 26 45 18 112
E: info@kalenborn.com
W: www.kalenborn.com
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.

KENZFIGEE GROUP B.V.

PO Box 235
Zaandam
1500 EE
The Netherlands
Contact: Mr Jan Willem van Bloois
Job Title: Manager Business Development
T: + 31 75 6810 410
E: Sales@kenzfigee.com
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.

KIEPE ELECTRIC GMBH

Kiepe-Platz 1
Düsseldorf
40599
Germany
Contact: Mrs Birgit Sacha
Job Title: Group Leader/Product Manager Kiepe Industry
T: + 49 211 7497 637
F: + 49 211 94259 332
E: info@kiepe-elektrik.com
W: www.kiepe.knorr-bremse.com
Kiepe Electric is a German manufacturer of pull rope switches, belt drift switches and speed monitoring devices for the control of belt conveyor systems. The trade mark KIEPE / KIEPE ELEKTRIK is worldwide a synonym for proven products of highest quality. The Division Bus & Train is specialized in e-mobility equipment to go green.

KILIC ENGINEERING

PO Box 2035
Regency Park
SA
5010
Australia
Contact: Mr Jason Kilic
Job Title: Managing Director
T: + 61 8 8268 5333
F: + 61 8 8268 2944
E: jasonkilic@kiliceng.com.au
W: www.kiliceng.com.au

KINDER AUSTRALIA PTY LTD

PO Box 1026
Braeside
Victoria
3195
Australia
Contact: Mr Sam Veal
Job Title: Marketing Manager
T: + 61 3 8587 9111
F: + 61 3 8587 9101

E: conveyorsolutions@kinder.com.au
W: www.kinder.com.au
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

Cradley Business Park
Overend Road
Cradley Heath
West Midlands
B64 7DW
UK
Contact: Mr John Connolly
Job Title: Managing Director
T: + 44 1384 410777
F: + 44 1384 410877
E: jconnolly@kingfisher-industrial.com
W: www.kingfisher-industrial.co.uk
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

Raiffeisenstrasse 12
Holzkirchen
Bavaria
D-83607
Germany
Job Title: Sales
T: + 49 8021 8899 0
F: + 49 8021 8899 37
E: info@kinshofer.com
W: https://www.kinshofer.com/
The Kinshofer Group is the one-stop shop for attachments for cranes, excavators, skidsteers and telehandlers worldwide, offering tools for general construction, material handling, demolition, recycling, forestry, landscaping, rail construction/maintenance and mining.

KIRUNA WAGON AB

Truckverkstaden
Kiruna
981 86
Sweden
Contact: Mr Daniel Kangas
T: + 46 70 226 26 56
E: daniel.kangas@heedmark.com
W: http://kirunawagon.com/

KLEEMANN GMBH

Hildenbrandstr.18
Göppingen-Faurndau
D-73035
Germany
Contact: Mr Mario Linnemann
Job Title: PR
T: + 49 7161 206 0
F: + 49 7161 206 100
E: mario.linnemann@wirtgen-group.com
W: www.kleemann.info

KNIGHT INDUSTRIAL EQUIPMENT

3701 Airfield Drive West
Lakeland
FL
33811-1244
USA
Contact: Mr Jason Rainboth
Job Title: Director of Operations
T: + 1 (863)646-2997
F: + 1 (863)647-2745
E: sales@knightindustrial.net
W: www.knightindustrial.net

KOCH SOLUTIONS GmbH

Karl-Koch-Str. 1
Waggassen
Saarland
66787
Germany
Contact: Mr Thomas Lesch
Job Title: Design & Proposal Engineer
T: + 49 6834 470 0
E: info@koch-solutions.com
W: www.koch-solutions.com
KOCH Solutions has developed a worldwide reputation for supplying innovative, fully-mobile material handling equipment solutions including mobile conveyors, stackers, loaders and unloaders, stockyard systems, and crushing and sizing equipment.

KOMATSU MINING CORP. GROUP

Unit B2
Bridgewater Avenue
Bolton
Greater Manchester
BL5 1EE
UK
Contact: Mr Matthew Forrest
Job Title: Key Account Manager
T: + 44 7866 197533
E: Matthew.forrest@mining.komatsu
W: https://mining.komatsu/
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
France
T: + 33 825 855 865
E: equipement.france@konecranes.com
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

PO Box 662
(Koneenkatu 8)
Hyvinkää
FIN-05801
Finland
Contact: Mr Jari Itäcodes
Job Title: Product Manager, Shipyard and Bulk Handling Cranes
T: + 358 20 427 11
F: + 358 20 427 2099
E: jari.itakodes@konecranes.com
W: www.konecranes.com
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

Forststrasse 16
Düsseldorf
D-40597
Germany
Contact: Mr Giuseppe Di Lisa
Job Title: Sales & Marketing Director
T: + 49 211 7102 3771
F: + 49 211 7102 3651
E: ps.info@konecranes.com
W: www.konecranes.com
FOR GREATER BULK HANDLING PRODUCTIVITY Reach out and grab it with eco-efficient Konecranes Gottwald Mobile Harbor Crane technology. Depending on site and operating conditions, our four-rope grab cranes, also available as rail-mounted portal and floating cranes, achieve handling capacities of up to 2,200 tph in continuous-duty bulk handling. Our broad range of products with their smart crane features is supported by dedicated planning and consultancy services and backed by a global service network.

KOTTA CONTAINER COMPANY LTD

Room 77, office 18H, bld 86,
letter A, Sredny Pr.
Vasilievsky Island
Saint Petersburg
Russia
Contact: Ms Olga Cherednikova
Job Title: Executive Director
T: +78123311230
F: +78123311331
E: office@kotta-container.com
W: www.kotta-container.com

KRECH OJARD & ASSOCIATES

227 W 1st St
Suite 500
Duluth
Minnesota
55802
USA
Contact: Mr Kevin Ehrenreich
Job Title: Director Infrastructure Services
T: + 1 218 727 3282
F: + 1 218 727 1216
E: kevin.ehrenreich@krechojard.com
W: www.krechojard.com

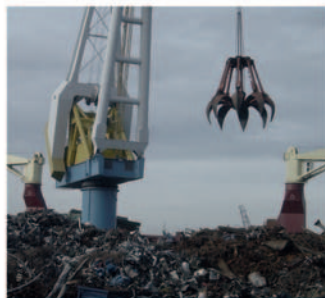
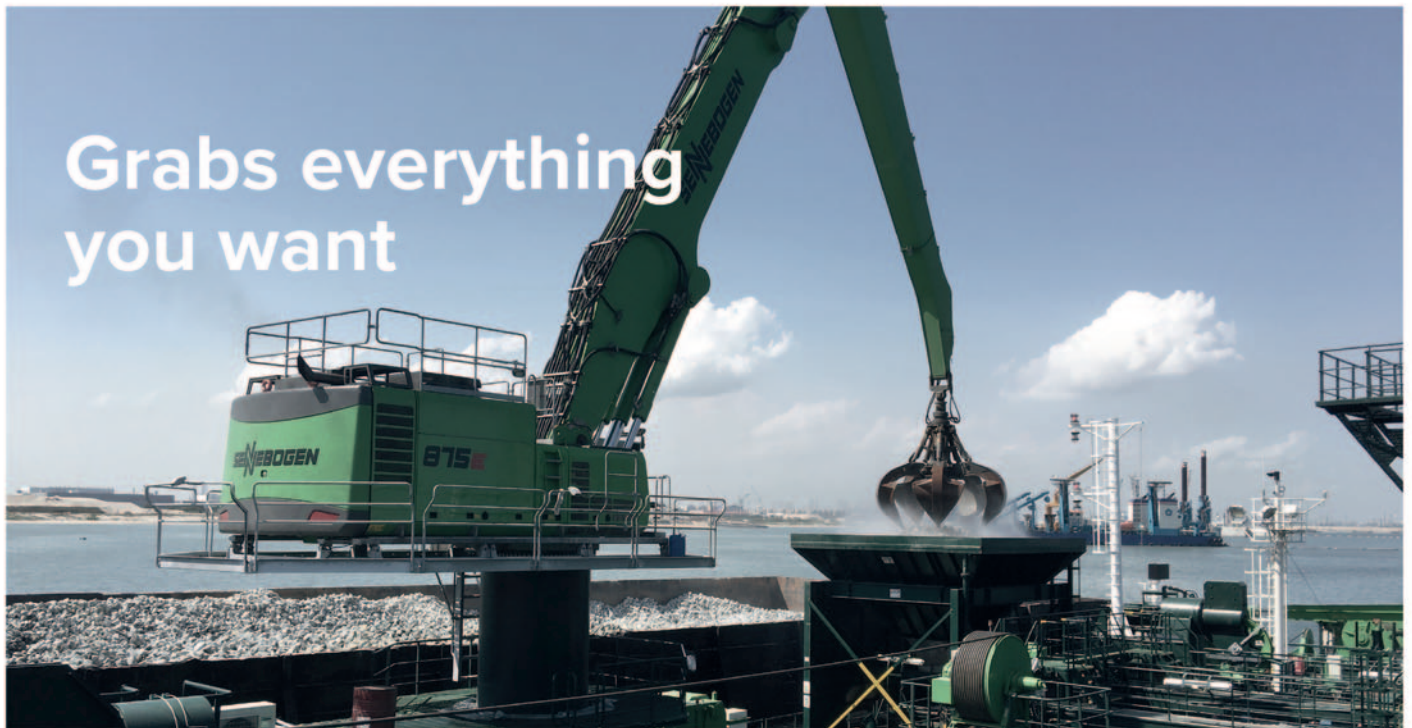
KRÖGER GREIFERTECHNIK GmbH & Co. KG

Steinheide 1-9
Sonsbeck
D-47665
Germany
Contact: Mr Daniel Boos
Job Title: Senior Engineer
Gripper Technology
T: + 49 2838 37 0
F: + 49 2838 37 39
E: daniel.boos@metzen.org/
daniel.boos@metzen.org
W: www.kroeger-greifertechnik.de
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.

KUMERA CORPORATION

Kumerankatu 2
Riihimäki
FI-11100
Finland
Contact: Mr Hannu Mäki
Job Title: Chief Engineer
T: + 35 820 755 4200
E: hannu.maki@kumera.com
W: http://www.kumera.com/

Grabs everything you want



Our products

For all kinds of bulk handling

- Cactus Rope Grabs
- Clamshell Rope Grabs
- Hydraulic Cactus Grabs
- Hydraulic Clamshell Grabs
- Hydraulic Log Grabs
- Hydraulic Demolition & Sorting Grabs
- Quick Change System
- Multipurpose Spreader

All our grabs are custom made, designed and produced to our customers requirements.

J&B Grabs are highly efficient for large volume and low deadweight handling.

We grab everything you want!

J&B Grabs The Netherlands



Take a look at our website jb-grippers.nl

KUMERA GETRIEBE GmbH

Bonner Strasse 38
Troisdorf
53842
Germany
Contact: Dr Heinz-Peter Ehren
Job Title: Managing Director
T: + 49 2241 988 0
F: + 49 2241 988 200
E: kumera.getriebe@kumera.com
W: www.kumera-getriebe.de

KUMERA GETRIEBE GmbH

Bonner Strasse 38
Troisdorf
D-53842
Germany
Contact: Mr Mario Grelha
Job Title: Head of Sales
T: + 49 2241 988 0
E: mario.grelha@kumera.com
W: https://kumera.com/factory/kumera-getriebe-gmbh/

LA STEPHANOISE

Zone Molina La Chazotte
76 D rue de la Talaudière
Saint Etienne
42000
France
Contact: Mr Thomas Giarrana
Job Title: New Equipment
T: + 33 4 77 32 67 20
F: + 33 4 77 89 30 27
E: t.giarrana@stephanoise.com
W: https://la-stephanoise.com/

LAIDIG SYSTEMS INC

14535 Dragoon Trail
Mishawaka
Indiana
IN 46544
USA
Contact: Mr Mike Schuster
Job Title: Vice President - Sales
T: + 1 574 256 0204
E: sales@laidig.com
W: www.laidig.com
The coal industry presents many challenges for the storage and reclaim of hard to handle materials. Laidig designs and manufactures fully automated reclaim systems to effectively handle the rugged and abrasive materials associated with these types of heavy-duty applications.

LAING O'ROURKE

Level 21, 100 Mount Street
North Sydney
NSW
2060
Australia
Contact: Ms Victoria Kougias
Job Title: Marketing I
Communications
T: + 61 9903 0777
E: media@laingorourke.com.au
W: www.laingorourke.com.au
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

2nd Floor, TC 1 Building
Mount Poonamallee Road
Manapakkam
Chennai
600 089
India
Contact: Mr Sanju John
T: + 91 44 2252 6000
F: + 91 44 2249 3317
E: info@intec.com
W: www.larsentoubro.com

LASSING DIBBEN CONSULTING

ENGINEERS LTD
PO Box 472
Trenton
Ontario
K8V 5R6
Canada
Contact: Mr David J. Jesse
Job Title: Director - Projects & Business Development
T: + 1 613 398 0007
F: + 1 613 394 4173
E: info@lassingdibben.com
W: www.lassingdibben.com
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.

2921 Esat 400 South
Columbia City
Indiana
46725
USA
Contact: Mr Kerry McAtee
Job Title: Sales Engineer
T: + 1 260 432 9693
E: kmcatee@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
T: + 33 6 73 99 85 06
E: Mathieu.muzeau@ldpl.com
W: www.ldpl.com

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
Kirchdorffiller
88457
Germany
Contact: Mr Andreas Scheuerl
Job Title: General Manager
Sales - Materials Handling
E: info@lhb.liebherr.com
W: www.liebherr.com
A member of the Liebherr Group and manufacturer of hydraulic material handlers.

LIEBHERR-MCCTEC ROSTOCK GmbH

Liebherrstr. 1
Rostock
18147
Germany
Contact: Mr Leopold Berthold
Job Title: Sales Director
T: + 43 50809 41725
F: + 43 50809 41447
E: maritime.cranes@liebherr.com
W: www.liebherr.com
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 Marcel van Rangelrooij
Job Title: CEO
T: + 31 180 440 720
F: + 31 180 516 064
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
F: + 49 7152 509050
E: c.lohr@listenow.com
W: www.listenow.com
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
F: + 49 9421 9256 25
E: info@loibl-group.com
W: www.loibl-group.com
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 Hennopsriver St.
Sunderland Ridge
Centurion
0157
South Africa
Contact: Mr Martin Granig
Job Title: Sales & Marketing
T: + 27 12 666 9121
F: + 27 12 666 9187
W: https://www.lorbrand.com/

LYBOVER

Oude Kassei 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: https://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

LYCOPODIUM

163 Leichhardt St
Spring Hill
QLD
4171
Australia
Contact: Mr Mark Osborne
Job Title: Engineer
T: + 61 7 3244 7777
F: + 61 7 3244 7788
E: minerals@lycopodium.com.au
W: www.lycopodium.com.au

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
F: + 1 865 984 5286
E: webinquiry@macawber.com
W: www.macawber.com

MACGREGOR SWEDEN AB

Björnåvågen 41a
Örnköldsvik
SE-891 41
Sweden
Contact: Mr Mikael Hägglund
Job Title: Manager, Transloading and Self unloading systems
T: + 46 660 294 096
F: + 46 660 12455
E: Mikael.Hagglund@macgregor.com
W: www.macgregor-group.com

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
F: + 1 251 653 1365
E: sales@MackMfg.com
W: www.mackmfg.com
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 Irno, 219
Salerno
84135
Italy
Contact: Ms Maria Apicella
Job Title: Marketing
T: + 39 089 688271
E: maria.apicella@magaldi.com
W: https://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
F: + 1 450 659 5570
E: iedwards@majorflexmat.com
W: www.majorflexmat.com
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 OPTIMUMVIRE® "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

Välikankaantie 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
F: + 1 636 680 2037
E: marco@terex.com
W: www.terex.com/marco
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
F: + 1 504 866 0016
E: rdrew@marineinspection.com
W: www.marineinspection.com/

MARTIN ENGINEERING



1 Martin Place
Neponset
Illinois
IL 61345
USA
Contact: Mrs Chelsea Blake
Job Title: Marketing
T: + 1 309 852 2384
F: + 1 800 814 1533
E: chelseab@martin-eng.com
W: www.martin-eng.com
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
F: + 49 6123 75533
E: info@martin-eng.de
W: www.martin-eng.de
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
F: + 49 8034 9072 526
E: roland.muhr@muhr.com
W: www.muhr.com
MUHR offers a wide range of high quality Bulk Loading Systems (for open and closed, dust-free loading). Loading Spout Positioners, Pneumatically 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
F: + 49 2368 98 8927
E: info@maschinenbau-feld.de
W: www.maschinenbau-feld.de
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
Harrisburg
PA
17104
USA
Contact: Mr Robert Koziacki
Job Title: President
T: + 1 717 364 1440
F: + 1 717 364 1640
E: service@mccreathlabs.com
W: www.mccreathlabs.com/

MEGADOME® BUILDINGS BY HARNOIS

1044 Principale
St-Thomas
Saint-Thomas
Quebec
J0K 3L0
Canada
Contact: Ms Noémie Harnois
Job Title: Marketing Coordinator
T: + 1 450 756 1041

F: + 1 450 756 8389
E: N.Harnois@harnois.com
W: www.megadomebuildings.com
MegaDome® Buildings, a division of Harnois Industries Manufacturer of innovative steel structures that meet the highest engineering standards and that enable our customers to acquire sustainable and cost-effective storage buildings.

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
F: + 1 410 760 8284
E: info@mentordynamics.com
W: www.mentordynamics.com
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
F: + 91 044 22501865
E: rajesh@meritech.co.in
W: www.meritbulkhandling.com/
MERIT Group, established in 1997, is India's market leader for batch load outs, 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
F: + 1 850 265 9768
E: info@merrick-inc.com
W: www.merrick-inc.com
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
T: + 91 9632219455
E: ritesh@metalkarma.in
W: www.metalkarma.in

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 OUTOTEC CORPORATION

Töölönlahdenkatu 2
Helsinki
FI-00101
Finland
Contact: Ms Anne Rantanen
Job Title: Business Communications, Minerals and Metals
T: + 358 40 7159646
E: anne.rantanen@mogroup.com
W: mogroup.com

MGB & COMPANY



7435 FM 2000
Caldwell
Texas
77836
USA
Contact: Mr Michael Bandas
Job Title: President-Manager
T: + 1 512 734 2996
F: + 1 512 556 0343
E: mike_bandas@icloud.com
W: www.mgbandcompany.com
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 Mykolas Baciūška
Job Title: General Manager
T: + 370 610 38717
E: mykolas@mhmlt
W: https://www.mhmlt/

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@midcohs.com
W: www.midcohs.com
Midco provide dust control

products and solutions for mines, quarries and any commercial environment since 1950. With over 70 years of expertise in the dust extraction industry, Midco can design and implement a dust suppression solution for the most challenging projects.

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
F: + 1 330 456 3247
E: Morgan.Murphy@midwestind.com
W: www.midwestind.com
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
F: + 1 231 547 9453
E: sales@midwestinternational.com
W: www.midwestmag.com
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
F: + 61 8 9359 0444
E: sean.burke@mpsaus.com.au
W: www.mpsaus.com.au
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: https://www.mist-air.co.uk/

mitsubishi Chemical Advanced Materials Inc.

201 Industrial Drive
Delmont
PA
15626
USA
Contact: Mr Edward Zibert
Job Title: Sales Engineer
T: + 1 724 468 7031
F: + 1 724 468 4044
E: edward.zibert@mcgc.com
W: https://www.mcam.com/na-en/
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
Job Title: General Manager, Material Handling Machinery
T: + 81 3 3270 2001
F: + 81 3 3245 0203
E: soumu@mitsuimike.co.jp
W: www.mitsuimike.co.jp

MOBILE CONVEYING SERVICES PTY LTD

631 Uhlmann Rd
Burgpengary
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
F: + 1 740 374 5908
E: mbailey@molemaster.com
W: www.molemaster.com
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

MOTHERWELL AUTOMATION

10 Sangiorgio Court
Osborne Park
Perth
WA
6017
Australia
Contact: Mr Leon Groenewald
Job Title: Business Development Manager
T: + 61 8 9212 4444
E: lgroenewald@motherwell.net.au
W: www.motherwell.net.au
Motherwell Automation is a dynamic Perth-based company that has built an excellent reputation for providing, in partnership with world leading manufacturers, leading edge industrial Automation, Control and Information Technology products and solutions to the Australian market for over 30 years. We also offer industrial business intelligence, troubleshooting and protection solutions as well as extensive project management, training and support for all of our products and services.

MOTRIDAL SPA

Via Pietro Bubba 17
Piacenza
Piacenza
29122
Italy
Contact: Mr Giampietro Calvi
Job Title: Sales Director
T: + 39 0523 59 66 11
F: + 39 0523 59 01 28
E: motridal@motridal.com
W: www.motridal.com
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
F: + 49 7263 9129 12
E: export@mrs-greifer.de
W: www.mrs-greifer.de
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: Mr Steven Beukers
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.

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@rainbowco.com.cn
W: http://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
F: +86 513 8879 0811
E: jsntup@163.com
W: www.upmachinery.com.cn

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
F: + 90 216 380 65 59
E: sales@naturalgrab.com
W: www.naturalgrab.com/

NAVCO (NATIONAL AIR VIBRATOR Co)

PO Box 40563 Houston TX 77240-0563 USA
Contact: Ms Ann Hutchinson
T: + 1 832 467 3636
F: + 1 832 467 3800
E: ben@navco.us
W: www.navco.us

NAVONUS NV

Voorhavenlaan 14B Ghent B-9000 Belgium
Contact: Mr Josie Peiffer
Job Title: Head of Supervision
T: + 32 9 345 89 77
W: https://navonus.be/

NEGRINI Srl


 via E. Torricelli n.4 Castelfranco Emilia Modena 41013 Italy
Contact: Mr Massimo Negrini
Job Title: Managing Director
T: + 39 059 923110
F: + 39 059 920378
E: info@negrini.org
W: www.negrini.org
 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
F: + 49 5422 9503 50
E: a.haeuser@neuero.de
W: www.neuero.com
 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
F: + 49 21 039 51209
E: lea.delius@nilos.de
W: www.nilos.com
 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

F: + 371 67271038
E: nkteh@nkteh.com
W: www.nkteh.com
 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@nkmoell.com
W: https://www.nkmoell.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

Leading Merchants Zhangzhou Development Zone Fujian 363105 China
T: + 86 596 6851 888
F: + 86 596 6851 889
E: xia.info@terexnoell.com
W: www.noellchina.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
F: + 65 626 11300
E: cameron@ramspreaders.com
W: www.ramspreaders.com/

O.Z. HENNLICH ENGINEERING

HENNLICH s.r.o. Ceskolipská 9 Litoměřice 412 01 Czech Republic
Contact: Mr Jan Petružalek
Job Title: Head of the Sales Department
T: + 420 416 711 357
F: + 420 416 711 999
E: engineering@hennlich.cz
W: www.hennlich.cz/engineering

OPS CRUSHING & SCREENING

40 Miguel Road Bibra Lake Western Australia 6163 Australia
Contact: Mr Gerry McGuigan
Job Title: Sales Manager
T: +61405819035
E: gerry@opsaust.com.au
W: https://opsaust.com.au/

ORTHO'S PROJECTS LTD.

Fernie Road Market Harborough Leicestershire LE16 7PH UK
Contact: Mr Nick Hall
Job Title: Director
T: + 44 1858 462806
F: + 44 1858 464403
E: Nick.Hall@orthosprojects.com
W: www.orthosprojects.com
 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


 Schwartzauer Strasse 99 Serež D-23611 Germany
Contact: Herr Sigvard Orts
T: + 49 451 3988515
F: + 49 451 392374
E: info@orts-gmbh.de
W: www.orts-grabs.de
 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.

OUCONS Oy

Voudintie 3 Oulu 90400 Finland
Contact: Mr Jukka Seppänen
Job Title: Engineering Manager
T: + 358 447361501
E: jukka.seppanen@oucons.fi
W: www.comatec.fi/oucons

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
 Pulogadung Trade Centre, Blok 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
F: + 62 21 4680 0716
E: mina@mitrask.com
W: http://www.mitrask.com/

PAGE MACRAE ENGINEERING

61 Aerodrome Road Mount Maunganui Bay of Plenty 3116 New Zealand
Job Title: Business Development Manager
T: + 64 7 575 5079
E: enquiries@page-macrae.co.nz
W: www.page-macrae.com
 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.

PAKIET

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 Krasinikova
Job Title: Piping Product Marketing Manager
T: + 31 615118582
E: olga.krasinikova@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
F: + 44 116 261 0812
E: sales@parkerplant.com
W: www.parkerplant.com
 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
F: + 1 270 442 5214
E: sales@pebco.com
W: www.pebco.com
 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
T: + 31 10 295 50 00
F: + 31 10 295 50 49
E: kranen@peinemann.nl
W: www.peinemann.nl

PEINER SMAG LIFTING TECHNOLOGIES GmbH


 Windmühlenbergstraße 20-22 Salzgitler D-38259 Germany

Contact: Mr Günther Ribeiro-Vinzenz
Job Title: Business Unit Director
T: + 49 5341 302 647
F: + 49 5341 302 424
E: sales-grabs@peiner-smag.com
W: www.peiner-smag.com
 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: mbrunner@penkert.com
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 NEDERLAND BV

Boompjes 270 Rotterdam 3011 XZ The Netherlands
Contact: Mr Arno Maehlmann
T: + 31 10 282 3333
F: + 31 10 282 3282
E: bulkoperations@peterson.com
W: www.onepeterson.com

PFISTER WAAGEN BILANCIAI 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
F: + 49 82 07 9 58 99 29
E: marketing@pfisterwaagen.de
W: www.pfisterwaagen.de
 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.



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



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
F: + 34 985 134 222
E: jrprado@pwh.es
W: http://www.grupotsk.com/
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
F: + 49 40 7667 2413
E: info@phoenix-cbs.com
W: www.phoenix-conveyorbelts.com
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 Pulleman
Job Title: Managing Director
T: + 31 167 528 510
F: + 31 167 524444
E: info@plmcranes.com
W: www.plmcranes.com
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, transhipping, 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
F: + 1 507 345 3639
E: info@pneumat.com
W: http://pneumat.com/
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
F: + 1 253 272 1457
E: bryan.olin@polymerindustries.com
W: www.polymerindustries.com

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.

PORTASILO LTD

New Lane
Huntington
York
YO3 9PR
UK
Contact: Mr Fin Farrelly
T: + 44 1904 624 872
F: + 44 1904 611 760
E: bulk@portasillo.co.uk
W: www.portasillo.co.uk
Designs, manufactures and installs bulk handling equipment for the storage and handling of powdered and granular materials. Equipment supplied includes silos, hoppers, mechanical conveyors, lean phase and dense phase pneumatic conveying systems. Full turn key solutions can be offered.

PORT-TRADE AS

Karelmagervej 9
Fredericia
DK 7000
Denmark
Contact: Mr Peter J Muller
Job Title: Managing Director
T: + 45 7628 0102
F: + 45 7628 0103
E: peter.muller@port-trade.com
W: www.port-trade.com
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
F: + 44 288 77 47231
E: sales@powerscreen.com
W: www.powerscreen.com
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

Franse Akker 1
Breda
4824 AL
The Netherlands
Contact: Mrs Monique Kuijer-Heessels
Job Title: Communication & Marketing
T: + 31 76 524 2513
F: + 31 76 522 8039
E: monique.heessels@preciamol.nl
W: www.preciamol.nl
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
Offord Road
Sevenoaks
Kent
TN14 5EL
UK
Contact: Mr Ian Hall
T: + 44 1732 781 300
F: + 44 1732 781 311
E: joe.naylor@proconeng.com
W: www.proconeng.com
Continuous digital belt weighing and weigh 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 7864049888
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/toxic measurement are part of our service portfolio which we render globally (www.psbinspection.com).

PT ARMADA ROCK KARUNIA

Transshipment
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
F: + 62 21 2525 928
E: frans.hasiholan@ark-transshipment.com
W: www.ark-transshipment.com

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
F: + 62 21 5785 1959
W: https://abl.co.id/

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.ptbcbi.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
F: + 62 21 823 2323
E: bdv@bukaka.com
W: www.bukaka.com

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
F: + 62 21 5022 6868
E: headoffice@carsurin.com
W: www.carsurin.com
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

Jl. Setiabudi 79-81
Bandung
West Java
40291
Indonesia
Contact: Mr Peter Pramana
Job Title: + 62 22 203 1316
T: + 62 22 203 5433
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
Job Title: Branch Manager
T: + 62 21 8794 4010
E: tonydio@jpc.co.id

W: www.jpc.co.id

PT MBSS

Gedung Menara Karya
Jl HR Rasuna Said
Jakarta
South Jakarta 12950
Indonesia
Contact: Mr Immanuel Sinulingga
Job Title: GM Commercial
T: + 62 811800685
E: corporate.communication@mbss.co.id
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
12950
Indonesia
Contact: Mr Yogi Saputra
Job Title: Corporate Communications
T: + 62 21 5794 4755
F: + 62 21 5794 4767
E: corporate.communication@mbss.co.id
W: www.mbss.co.id

PT PAMAPERSADA NUSANTARA

Jln. Rawagelam I No. 9
Jakarta Industrial Estate
Pulo Gadung
Jakarta
13930
Indonesia
Contact: Mr Hafiz Fauzan
Job Title: Business Development
T: + 62 21 460 2015
F: + 62 21 460 1916
W: www.pamapersada.com

PT PELAYARAN SINAR SHIPPING INDONESIA

The East Tower 36th Floor #05
Jl. Dr Iede Anak Agung Gde Agung
Kav. E3.2 No. 1,
Jakarta
12950
Indonesia
Contact: Ms Hendra Gunawan
Job Title: Digital Branding Manager
T: + 62 21 5793 8620
F: + 62 811 5801160
W: www.rocktreegroup.com

PT SPANSET INDONESIA

Jl. Marunda Center Blok F No.20
Segara Makmur
Tarumajaya
Bekasi
Jawa Barat
14350
Indonesia
Contact: Mr Yudhi Nugroho
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, Kisiwire , Usha Martin and Veopre 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
Contact: Mr Matahara
Job Title: Business Development Manager
T: + 62 21 2754 9999
F: + 62 21 2754 9800
E: thiess@thiess.co.id
W: www.thiess.co.id

PT. BANDO INDONESIA

Wisma Hayam Wuruk, 6th floor,
Suite 600
Jln. Hayam Wuruk No. 8
Jakarta
10120
Indonesia
Contact: Mr Budi Widjaya
Job Title: Mining Division
T: + 62 21 3517590
F: + 62 21 3517591
E: vbelt.div@bandoindonesia.com
W: www.bandoindonesia.com
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
DKI Jakarta
10640
Indonesia
Contact: Mr David Hardjadinata
Job Title: Director
T: + 62 214243568
E: david.hardjadinata@pt-hpi.com

PT. LELANGON

Panglima Sudirman 86 Kletek
Sidoarjo
East Java
6135
Indonesia
Contact: Mr Mochamad Robby
Job Title: Engineer
T: + 62 3 7882732
F: + 62 31 7882912
E: lelangon.engineering@gmail.com
W: www.lelangon.com

PT. THERMALINDO SARANA LABORTORIA

Jl. Daan Mogot II No. 100J
Jakarta
11510
Indonesia
Contact: Mr Eduard Sasmita
Job Title: Branch Manager
T: + 62 21 566 3057
F: + 62 21 566 2795
E: edo@thermalindo.com
W: http://www.thermalindo.com/

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@qcasytems.com
W: https://qcasytems.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
F: + 86 53255711352
E: ibd@qdhhmc.com

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
F: + 86 532 8251 9238
E: conveyorbelt@huaxiarubber.cn
molly.shi@huaxiarubber.cn
W: www.huaxiarubber.cn
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.

QML SERVICES

Unit 4, 178 Main Road
Speers Point
NSW
2284
Australia
Contact: Mr Simon LeRougetel
Job Title: Services Manager
T: + 61 2 4908 2290
F: + 61 2 4958 4255
E: info@qmlservices.com
W: www.qmlservices.com
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.

QUALITY HANDLING SYSTEMS PTY LTD

6 Melters Place
Wetherill Park
Sydney
NSW
2164
Australia
Contact: Mr Peter Skoljarev
Job Title: Project Engineer
T: + 61 2 9756 1921
F: + 61 2 9756 4212
E: pskoljarev@qhs.com.au
W: www.qhs.com.au
Specialists in the design and supply of mechanical sampling systems for bulk materials. The company can also assist in the design and specification of new sampling systems and review existing systems to improve their reliability and accuracy.

QUANERGY

433 Lakeside Drive
Sunnyvale
CA
94085
USA
Contact: Ms Andy Steen
Job Title: Marketing Executive
T: + 1 408 245 9500
F: + 1 408 245 9503
E: info@quanergy.com
W: https://quanergy.com/

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
F: + 61 2 9005 1101
E: bulk@qube.com.au
W: www.qube.com.au/ports-and-bulk□

R & S SRL / RONCUZZI - WAM GROUP

Via del Cmapo Sportiuo 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 transshipment plant for coal, cereals, mineral.

RAM LIFTING TECHNOLOGIES

6 Selby Place
Stanley
Skelmersdale
Lancashire
WN8 8EF
UK
Contact: Mr Patrick Draper
Job Title: PR & Communication
T: + 44 1695 556355
F: + 44 1695 556356
E: p.draper@ramspreaders.com
W: www.ramspreaders.com/
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
Hawley
MN
56549-4310
USA
Contact: Mr Justin Koenig
Job Title: Industrial Sales Manager
T: + 1 218 483 3344
E: info@rapat.com
W: http://www.rapat.com/

RAPIDPACK

29th Floor
Mazaya Business Avenue,
Tower AA1
Jumeirah Lakes Towers
Dubai
UAE
Contact: Mr Arshad Ayub
Job Title: Sales Engineer
T: + 971 4 445 8335
E: arshad@rapidpack.ca
W: https://rapidpack.ca/

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
F: + 33 2 41 21 19 59
E: d.nirefois@rblrei-france.com
W: http://www.rblrei-france.com

RBL-REI FRANCE

140 bis rue de Rennes
Paris
Cedex 14
75006
France
Contact: Mr David Nirefois
Job Title: Project Manager
T: + 33 2 41 21 13 82 (dct) / + 33 2 41 21 19 40
F: + 33 2 41 21 19 59
E: d.nirefois@rblrei-france.com
W: www.rblrei-france.com
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
Rotterdam
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: Ms Laura Buchner
Job Title: Regional Sales Manager
T: + 61 488 932 975
E: laurab@rtiaustralia.com
W: www.realtimegrp.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
Job Title: Marketing and Communication
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 Chaux
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

REEL S.A.S.

69 rue de la Chaux
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.

REMA TIP TOP AG

Gruberstraße 65
Poing
Bavaria
D-85586
Germany
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
Augsburg
86159
Germany
Contact: Mr Michael Beck
Job Title: Marketing and Advertising
T: + 49 821 57 000
F: + 49 821 5700 460
E: info@renk.biz
W: https://www.renk.com/de

REPA CONVEYOR EQUIPMENT B.V.

Fluorietweg 28
Alkmaar
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: http://www.repa-ce.com/
REPA - your single source supplier.

RHC DEUTSCHLAND GmbH

Am Taennele 6
Senden-Aufheim
Bayern
D-89250
Germany
Contact: Mr Rolf Hofmann
Job Title: CEO
T: + 49 174 2050 164
F: + 49 7307 9258065
E: rolf.hofmann@rhc-deutschland.de
W: http://www.rhc-deutschland.com/
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
F: + 1 412 787 9645
E: info@richmondengineering.com
W: www.richmondengineering.com
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 and electrical equipment 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 Kelley Barr
Job Title: Marketing Manager
T: + 1 304 525 5436
F: + 1 304 525 8018
E: info@richwood.com
W: www.richwood.com
For over 30 years, Richwood has designed and manufactured reliable, innovative solutions for the worldwide bulk material handling industry.

RIKON A/S RIKON

Tvaika Street 68b
Riga
LV-1034
Latvia
Contact: Mr Inal Akhba
Job Title: Council Chairman
T: + 371 29 29 9992
F: + 371 67393828
E: rikon@rikon.lv
W: www.rikon.lv
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 tyred gantry cranes; Rail mounted gantry cranes; mobile harbour cranes; Crane-manipulators; Ship cranes; Offshore cranes; Overhead cranes.

RINA CONSULTING S.P.A.

Via Corsica, 12
Genoa
16128
Italy
Contact: Ms Cynthia Pica
Job Title: Marketing
T: + 39 010 538 5511
E: cinzia.pica@rina.org
W: www.rina.org
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

Schabenweg 30-38
Bad Homburg
61348
Germany
Contact: Ms Pia Katzenmeier
Job Title: Marketing
T: + 49 6172 275 0
F: + 49 172 73 54 755
E: info@ringspann.de
W: www.ringspann.com

ROCKTREE LOGISTICS PTE. LTD.

3 Church Street
#24-01/02
Samsung Hub
Singapore
049483
Singapore
Contact: Mr Daniel Miller

Job Title: General Manager/Head of Business Development
T: + 65 9423 6588
E: dmiller@rocktree.sg
projdev@rocktree.sg
W: www.rocktree.sg
Rocktree is a leading provider of marine dry bulk cargo handling and delivery solutions. Market leader in the dry bulk transshipment industry, the Company serves international traders, miners and end users 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
F: + 27 11 608 4679
E: ferdi@thisisronin.com
W: www.thisisronin.com
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
F: + 39 059 827774
E: marketing@rossi.com
W: https://www.rossi.com/
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@rotobec.net
W: https://rotobec.com/

ROXON Oy

Keskikankaantie 19
Hollola
15860
Finland
Contact: Mr Ryan Silvester
Job Title: Marketing Manager
Nepean
T: + 61 8 9347 8507
E: ryan.silvester@nepean.com
W: http://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.

ROYAL HASKONING DHV

PO Box 8520
Rotterdam
3009 AM
The Netherlands
Contact: Mr Johan Pruiskien
Job Title: Senior Project

Manager
T: + 31 10 286 54 45
F: + 31 10 443 3688
E: j.pruiken@royalhaskoning.com
W: www.royalhaskoningdhv.com/
Studies on
marketing/distribution/feasibility/
management handling/storage/
environmental impact. Design,
procurement, tender evaluation,
contract aware, on-site
supervision. Has carried out
projects in over 70 countries.

RUBB BUILDINGS LTD

Dukesway
Team Valley Trading Estate
Gateshead
Tyne & Wear
NE11 0QE
UK
Contact: Ms Clare Wilson
Job Title: Marketing Director
T: + 44 191 482 2211
F: + 44 191 482 2516
E: info@rubbuk.com
W: https://www.rubbuk.com/
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.



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@rulmeccom
W: www.rulmeccom
Specialises in the production of
idlers/rollers, frames, motorized
pulleys, fabricated pulleys and
components for material
handling.
Rulmeccom 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 Elvis Lebepe
Job Title: Marketing
T: + 27 12 428 7911
F: + 27 12 428 7952
E: elvis.lebepe@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
F: + 39 335 513331
E: marketing@sammi.it
W: www.sammi.it
In addition: Bucket elevator
Offering complete support, from
engineering to implementation,
through to commissioning,
of turnkey 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 Paul Reagan
Job Title: President
T: + 1 757 928 0484 ext 100
F: + 1 757 928 0482
E: preagan@
samplingassociates.com
W: www.samplingassociates.com
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

AUMUND GROUP
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

Petritschgasse 12
Wien
AT-1210
Austria
Contact: Mr Eric Gourley
Job Title: Corporate
Communications Manager
T: + 46 8 456 1368
E: eric.gourley@sandvik.com
W: www.sandvik.com

SANY EUROPE GmbH

Sany Allee 1
Bedburg
50181
Germany
Contact: Mr Nan Jiang
Job Title: Managing Director
T: + 49 2272 90531148
E: Nan.Jiang@sanyeuropa.com
W: https://www.sanyeuropa.com/
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
Warren
MI
48089
USA
Contact: Mr Gary Stiltner
Job Title: Product Manager
T: + 1 704 5170797
W: http://www.sasglobalcorp.com/

SBEC (Pty) Ltd

Cubenco Park Unit 11A
Industria St 4
Vredenburg
7380
South Africa
Contact: Mr Dirk van der Merwe
Job Title: Managing Director
T: + 27 76 020 9071
E: dirk@sbec.co.za
W: http://sbec.co.za/

SCANTECH INTERNATIONAL



PO Box 1485
Springwood
Queensland
4127
Australia
Contact: Mr Andrew Brodie
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)



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

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

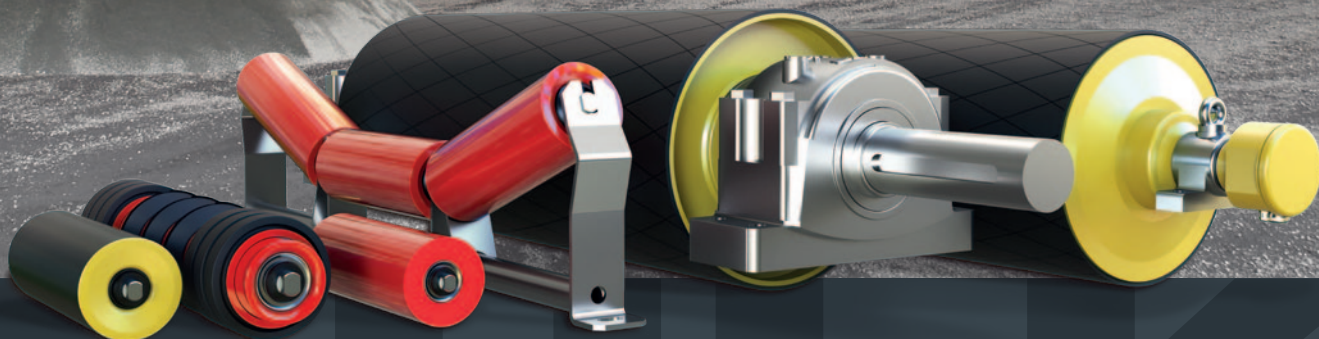
Contact us for advice and
assistance:

Web site: www.scantech.com.au
Email: sales@scantech.com.au



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.



BULK



MINING,
COAL AND LIGNITE



CEMENT, QUARRIES
AND TUNNELLING



SALT AND
SUGAR PLANTS



STEEL AND
POWER PLANTS



RECYCLING, CRUSHING
AND SCREENING



PORTS,
IMP/EXP TERMINALS

SOLUTIONS FOR ANY INDUSTRY

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.

RULMECA HOLDING S.p.A

Via A. Toscanini, 1 - 24011 Almè Bergamo

Tel. +39 035 4300 111 - rulmeca@rulmeca.com

rulmeca.com




RULMECA®
MOVING AHEAD

Reclaimers, Portal and Semi-portal Scraper Reclaimers, Cantilever Scraper Reclaimers as well as Wagon Unloading Systems. 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 Birgit Broer
Job Title: Marketing
T: +49 4465 9469 18
F: +49 4465 9469 33
E: b.broer@schrage.de
W: http://www.schrage.de/

SCHULTE STRATHAUS GmbH & Co. KG

Runtestrasse 42
Werl
D-59457
Germany
Contact: Mr Florian Lammert
Job Title: Marketing
T: +49 2922 9775 0
F: +49 2922 9775 75
E: flammert@schulte-strathaus.de
W: www.schulte-strathaus.de
Accessories for Conveyors:
STARCLEAN® Conveyor Belt
Scrapers, Belt Trackers, Spillix
transfer point seals, impact
tables and bars, STARCLEAN®
Smart Scraper with belt
damage detection.

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 TRADING 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.

SEMPERTRANS FRANCE BELTING TECHNOLOGY

1bis
Rue Collange
CS30002
Levallois-Perret Cedex
92593
France
Contact: Ms Paulina Sakowitz
Job Title: Head of Marketing
Conveyors
T: +43 1 797 77 306
E: Paulina.Sakowicz@
sempertgroup.com
W: www.semperttrans.com

SENNEBOGEN MASCHINENFABRIK GmbH

SENNEBOGEN®
Hebbelstrasse 30
Straubing
D-94315
Germany
Contact: Mr Robert Aumüller
Job Title: Head of Business Unit
Port Application
T: +49 9421 540155
F: +49 9421 43882
E: marketing@sennebogen.de
W: www.sennebogen.com
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
Wroxton
Banbury
Oxon
OX15 6AY
UK
Contact: Mr Mark Ingham
Job Title: Sales Manager
T: +44 1869 238 400
F: +44 1869 238 401
E: info@sensors.co.uk
W: www.sensors.co.uk
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
F: +33 4 68 61 57 00
E: semis.j@seram.net
W: www.seram.net
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
F: +2 057 229 08 49
E: kareem.abdelatif@
sestotrans.net
W: www.sestotrans.com
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

Ernst-Blickle-Str. 42
Bruchsal
D-76646
Germany
Job Title: Central Sales
T: +49 7251 75 0
F: +49 7251 75 1970
E: sew@sew-eurodrive.de
W: www.sew-eurodrive.com
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
F: +1 705 652 6365
E: steve.mackie@sgs.com
W: www.sgs.com/coal
Knowing your coal quality and
representatively sampling are
essential to eliminate penalties
and maximize profits. SGS' technical expertise provides
unvalued 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
F: +41 22 739 9886
E: daniel.rufenacht@sgs.com
W: www.sgs.com
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
countries around the world.

SHANDONG KAIYUAN HEAVY MACHINERY Co., LTD.

Yangliu Industrial Park
Xintai City
Tai'an City
Shandong
271208
China
Contact: Ms Wendy Guo
Job Title: Sales Manager
T: +86 538 2676276
E: Wendy@kyzjx.com
W: www.http://en.kyranes.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
F: +86 21 398 21130
E: luo@sgmc.com.cn
W: www.sgmcgrab.com

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
F: +86 21 6885 5559
E: janus@janusgrab.com
W: http://www.janusgrab.com/
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 QIFAN Co., LTD.

25F, Baoding Mansion
Xujiahui Road
Shanghai
200025
China
Contact: Mr Eric Liu
T: +86 21 51029257

F: +86 21 51062358
E: erichshpy@163.com
W: http://www.qifanco.com/

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
F: +86 21 5522 8739
E: grab@shyp-pm.com
W: www.shyp-pm.com/

SHANTHI

INTERNATIONAL

21, Center Point
Indira Gandhi Road
Jamnagar
Gujarat
361008
India
Contact: Mr Sanjay Masuria
Job Title: Director - Marketing -
International
T: +91 288 255 6671 / +91 288
2555 867
F: +91 288 255 4254
E: info@servoday.com
W: www.servodaygrabs.com
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
Milano
20127
Italy
Contact: Mr Luca Condini
Job Title: Technical Director
T: +39 02 8362 3450
F: +39 02 8362 3451
E: lcondini@shieldservices.it/
W: http://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

Elizias iela 17 - 3
Riga
LV-1050
Latvia
Contact: Mr Dinis Hruscova
Job Title: Co-founder and
Technical Director
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,
Graviti containers. BLESTE is
managing own engineering
bureau and can customise.

SIBRE - SIEGERLAND BREMSSEN GmbH



Siegerland Bremsen
Auf der Stücker 1-5
Haiger
Hessen
D-35708
Germany
Contact: Ms Illesia Pfeiffer
Job Title: Secretary - Managing
Director
T: +49 2774 91134 11
E: illesia.pfeiffer@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.

SIDERAR / TERNIUM

Centro de Informacion
Ave. Cordoba 320, Piso 4
Ciudad Autonoma de Buenos
Aires
Buenos Aires
C1054AAP
Argentina
Contact: Mr Ariel Fabré
Job Title: Engineer
T: +54 11 4018 6538
F: +54 11 4018 1005
E: BAIAlFA@techint.net
W: www.siderar.com
Engineering Manufacturer Steel
Plants, group of companies.

SIEBTECHNIK GmbH

Platanenallee 46
Mülheim an der Ruhr
D-45478
Germany
Contact: Mr G Liefke
T: +49 208 580 100
F: +49 208 580 1300
E: sales@siebtechnik.com
W: www.siebtechnik.com
Wormscreen, pusher-type and
vibratory centrifuges,
centrifuges for granular
products; decaners for
continuous separation of solids
from liquids; laboratory
centrifugal, size-reduction
machines, especially vibratory
mills for grinding to ultimate
finesness, 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
F: +1 513 489 4817
E: sales@tema.net
W: https://www.siebtechnik-
tema.com
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

PO Box 3220
Rijswijk
GE
2280
The Netherlands
Contact: Mr M P van Delden
T: +31 70 390 6555

F: + 31 70 399 3390
E: m.vandelden@siebtechnik-tema.nl
W: www.siebtechnik-tema.nl
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

Schuhstrasse 60
Erlangen
91052
Germany
Contact: Ms Jazmin Parra
Ancares
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 AG

Gleiwitzer Str. 555
Nuremberg
90475
Germany
Contact: Mr Stefan Rauscher
Job Title: Press
T: + 49 911 8957952
E: stefan.rauscher@siemens.com

SIEMENS NEDERLAND NV

PO Box 16068
The Hague
2500 BB
The Netherlands
Contact: Mr Hans Hertogh
T: + 31 70 33 33 333
F: + 31 70 33 33 634
E: hans.hertogh@siemens.com
W: www.siemens.com

SIETHOM GROUP

Poschacherstr. 35,
Linz
4020
Austria
Contact: Ms Bettina Bakos
Job Title: Marketing
T: + 43 7229 69079
E: office@siethomgroup.com
W: www.siethomgroup.com/

SIG - SOCIETÀ ITALIANA GOMMA SPA

Via A. Colombo 144
Goria Minore
Varese
21055
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 50 years manufacturing SIG can easily supply high quality made in Italy synthetic and steel 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: sppl@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
F: + 1 440 891 3210
E: sales@slyinc.com
W: www.slyinc.com
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.

SMB INTERNATIONAL GmbH

Friedrich List Str 3-7
Quickborn
25451
Germany
Contact: Mr Andreas Heckel
Job Title: CEO
T: + 49 4106 12388 0
E: heckel@mba-instruments.de
W: https://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
Job Title: Marketing Manager
T: + 44 28 9267 3777
F: + 44 28 9266 3666
E: sales@smileymonroe.com
W: www.smileymonroe.com
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
B-9990
Belgium
Contact: Mrs Kathleen Breusegem
Job Title: Managing Director
T: + 32 50 711801
F: + 32 50 710402
E: info@sobemai.com
W: www.sobemai.com
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
F: + 44 1495 790666

E: sales@solitec.co.uk
W: www.solitec.co.uk
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 ROTLOK 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
F: + 1 450 464 4534
E: fcorcoz@sotecma.com
W: www.sotecma.com
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

Eichsfelder Straße 17
Düsseldorf
40595
Germany
Contact: Ms Vanessa Henze
T: + 49 211 88933001
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

Evolis 17
Kortrijk
8500
Belgium
Contact: Mr Mirko Savic
Job Title: CEO
T: + 32 56 44 33 00
E: mirko@spraystream.com
W: https://www.spraystream.com/

STAG AG

Industriestrasse 11
Mainfeld
73014
Switzerland
Contact: Mr Martin Adam
Job Title: Sales/Marketing
T: + 41 81 3035841 / 5800
F: + 41 81 3035899
E: office@stag.net
W: www.stag.net
STAG bulk material technology for mechanical and pneumatic conveying 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
Job Title: Marketing Manager
T: + 33 320 283 232
F: + 33 320 685 109
E: market@standard-industrie.com
W: www.standard-industrie.com
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 operating and maintenance costs.

STANTEC

375 Boulevard Roland-Therrien
Longueuil
Quebec
J4H 4A6
Canada
Contact: Mr Bernard Burke
Job Title: Principal, Ports and Marine Terminals
T: + 1 438 686 9125
F: + 1 450 668 8232
E: bernard.burke@stantec.com
W: https://www.stantec.com/en 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.

Polígono Ibarluz
Pabellón B-9
Hernani
Gipuzkoa
20120
Spain
Contact: Mr Martin Amesti
Job Title: General Manager
T: + 34 943 335 033
F: + 34 943 333 506
E: info@stemm.com
W: www.stemm.com
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 SRL

Zona Industriale snc
Tito Scalo
Potenza
85050
Italy
Contact: Mr Anselmo Zirpoli
Job Title: Sales Manager
T: + 39 0971 485073 ext 601
F: + 39 0971 485086
E: anselmo.zirpoli@stm.group; sales@stm.group
W: www.stm.group
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 Conveyor, 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: https://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
F: + 31 162 517590
E: mhoekstra@stokmanbv
W: www.stokmanbv.com

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
F: + 1 514 737 4146
E: h.nowodworski@strudes.ca
W: www.strudes.ca
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
F: + 62 21 798 6878
E: diding@sucofindo.co.id
W: www.sucofindo.co.id

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
F: + 81 3 6628 5671
E: shimh.international_sales@shi-g.com
W: www.shi.co.jp/shi-mh/
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
F: + 1 320 585 5644
E: info@superior-ind.com
W: www.superior-ind.com
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: http://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.

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

F: + 1 620 423 3999
E: sales@tankconnection.com
W: www.tankconnection.com/

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 Overeem 7
Renswoude
Utrecht
NL-3927 GH
The Netherlands
Contact: Mr Micha Bermentloo
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
F: + 1 604 594 9193
E: admin@tdmicronic.com
W: www.tdmicronic.com
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

Blaabaervej 3
Haslev
DK-4690
Denmark
Contact: Mr Anders Larsen
Job Title: CEO
T: + 45 56314925
F: + 45 56314555
E: sales@techNaero.dk
W: www.techNaero.dk
Other equipment: Silo systems

TECPRO AUSTRALIA

Unit 5
16 Rob Place
Vineyard
NSW
2765
Australia
Contact: Mr Patrick Cooper



Coal handling with a Tobu Jukogyo grab.

Job Title: Director
T: + 61 2 9634 3370
E: patrick@tecpro.com.au
W: https://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
Jadestraat 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: https://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

Telesstack
Mobile Bulk Material Handling
Bankmore Way East
Omagh
County Tyrone
BT79 0NZ
Northern Ireland
T: + 44 28 82 25 11 00
F: + 44 28 82 25 22 11
E: marketing@teystack.com
W: www.teystack.com
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
W: www.terex.com

TEREX DEUTSCHLAND GMBH

TEREX | FUCHS
Industriestr. 3
Bad Schönborn
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 150t 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 Leibeseder
Job Title: Market Communication
T: + 43 7242 413 123
F: + 43 7242 413 91123
W: www.teufelberger.com
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
F: + 31 365 49 99 22
E: info@tgs-grabs.nl
W: www.tgs-grabs.nl
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 McCann
Job Title: Marketing Communications Manager
T: + 1 607 733 0928
F: + 1 607 733 7121
E: cmccann@hilliardcorp.com
W: https://www.hilliardcorp.com/

THE RARING CORPORATION

1101 NE 144th St.
Ste #107
Vancouver
WA
98682-1475
USA
Contact: Mr Gonzalo Campos
Canessa
Job Title: President
T: + 1 360 892 1659
F: + 1 360 892 1624
E: gcampos@raringcorp.com
W: www.raringcorp.com
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
F: + 49 2371 947 241
E: bulkmaterial@thiele.de
W: www.thiele.de
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
F: + 1 905 564 9602
E: abys@thorglobal.ca
W: www.thorglobal.ca
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

Daimlerring 39
Beckum
59269
Germany
Contact: Mr Berthold Bussieweke
Job Title: Head of Sales
T: + 49 2521 93 91 0
F: + 49 2521 93 91 33
E: thorwesten.vent@thorwesten.com
W: www.thorwesten.com

TIDFORE HEAVY INDUSTRY MANUFACTURING Co., LTD

No. 6 Benben Road
Jiuhua 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

Staffelstrasse 10
Zürich
8045
Switzerland
Contact: Mr Thomas Götschmann
Job Title: CEO
T: + 41 79 740 88 80
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
Job Title: Marketing Manager
T: + 1 540 283 2000
F: + 1 540 283 2001
E: tricia.downie@tmeic.com
W: www.tmeic.com

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.

東部重工業株式会社
TOBU JUKOGYO CO., LTD.
4-12-20, Kitazakae
Urayasu
Chiba
279-0002
Japan
Contact: Mr Shinichi Suwa
Job Title: Sales Department
T: + 81 47 352 5318
F: + 81 47 352 5316
E: info@tobugrab.com
W: http://www.tobugrab.com/en/
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
F: + 44 1453 733322
E: nwood@topcon.com
W: www.rdstec.com
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
Contact: Mr Bob Berry
Job Title: CEO
T: + 1 678 498 6351
E: rberry@tpies.com
W: www.tpies.com/index.html

TRANS-GLOBAL SOLUTIONS, INC

11811 East Freeway
Suite 630
Houston
Texas
TX 77029
USA
Contact: Mr Dan Orsini
T: + 1 713 453 0341
F: + 1 713 453 2756
E: dorsini@tgsgroup.com
W: www.tgsgroup.com

TRANS-GLOBAL SOLUTIONS, INC.

5255 N Twin City Hwy
Nederland
TX
77627
USA
Contact: Mr William Scott
Job Title: Vice President
T: + 1 409 727 4801
F: + 1 409 729 1132
E: wscott@tgsgroup.com
W: www.tgsgroup.com

TRANSSHIP LTD

Marazlievskaya Str, 8
Odessa
65014
Ukraine
Contact: Mr Eugene Mashtakov
T: + 380 482 33 33 32
F: + 38 482 34 74 07
E: e.mashtakov@transship.ua
W: http://transship.ua

TRF LIMITED (TATA)

11 Station Road
Burma Mines
Jamshedpur
Jharkhand
831 007
India
Contact: Mr Rajen Sahay
Job Title: Head of Corporate Communications
T: + 91 657 3046 407
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
Amnprior
Ontario
K7S 0C3
Canada
Contact: Mr Luis Gattorno
Job Title: V.P. Global Dome Operations
T: + 1 613 623 3434 ext. 2272
F: + 1 613 622 4003
E: lgattorno@triodetic.com
W: www.triodetic.com
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: https://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
F: + 82 24618084
E: bshan@han-corp.com



Coal loading using a TCL331R from Telestack.

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
F: + 81 6 6862 8516
E: tbs-sales@gr.tsubakimoto.co.jp
W: https://tsubakimoto.com/tbs/
Produces bulk handling systems equipment, bucket, flow and pan conveyors.

TTS (TRANSPORTATION TECHNOLOGY SYSTEMS) LLC

60F Darzciema Street
Riga LV-1073
Latvia
Contact: Mr Maksims Selakovs
Job Title: Chairman of the Board
T: + 371 6713 8267
F: + 371 6713 8365
E: maksims.selakovs@tts.lv
W: www.tts.lv
TTS is a Latvian manufacturing company with almost 30 years of experience in design and production of bulk material handling equipment. Our core products are conveyors of different kind, mobile stackers/shiploaders, mobile intake hoppers for vast types of materials, elevators, complex steel structures.

UAB "PATIKIMA LINIJA"

Vasario 16-osios g. 40
Garijava
Kauno r. 53216
Lithuania
Contact: Mr Simonas Masalskas
Job Title: Head of Sales
T: + 370 626 18206
E: simonas@rimo.lt
W: simonas@rimo.lt

ULMA CONVEYOR COMPONENTS

Barrio Zelaleta s/n
Otxandio
Bizkaia 48210
Spain
Contact: Mr Egoitz Jiménez Ocio
Job Title: Managing Director
T: + 34 945 450 075
F: + 34 945 450 257
E: ejimenez@ulmaconveyor.com
W: www.ULMA Conveyor
ComponentesBarrio Zelaleta s/nOtxandio

VEENSTRA MACHINEFABRIEK B.V.

De Holwert 10
KC Coevorden 7741KC
The Netherlands
Contact: Mr Paul Kuiper
Job Title: Investor
T: + 31 524 599 333
F: + 31 524 599 330
E: mach@veenstra-coevorden.nl
W: www.veenstragroup.nl

VENTYX

193 Turbot Street
Brisbane
Queensland 4000
Australia
Contact: Mr Greg Clark
Job Title: CEO
T: + 61 7 3303 3333
F: + 61 7 3303 3232
E: contact.center@au.abb.com
W: www.ventyx.com

VERACHTERT NEDERLAND B.V.

De Bloemendaal 8
Hertogenbosch
North Brabant 5221EC
The Netherlands
Contact: Mr Derwin Moerlie
Job Title: Foreign/Export Sales
T: + 31 73 640 41 11
E: info@veraned.nl
W: https://veracht.nl/
Verachtert has developed itself in 60 years into the market leader of Work Tools for all types of excavators and wheel loaders, and offers solutions for the specific wishes of the customer. Verachtert products represent quality and productivity. Other equipment: Coal handling buckets & funnel buckets

VERSTEGEN GRIJPERS BV



Marconibaan 20
Nieuwegein
3439 MS
The Netherlands
Contact: Mr Eric Visser
Job Title: Managing Director
T: + 31 3060 62222
F: + 31 3060 60657
E: info@verstegen.net
W: www.verstegen.net
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
F: + 1 401 539 2584
E: vibrators@vibco.com
W: www.vibco.com
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
F: + 33 3 85 44 06 79
E: vibrafloor@vibrafloor.com
W: www.vibrafloor.com
Vibrafloor supplies the automatic reclaimers 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 Estefania Mora
Job Title: Marketing Analyst
T: + 56 990 742958
E: estefania.mora@virtainc.com
W: https://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 Vita Votruba
Job Title: CEO
T: + 420 602 443 914
E: demands@vivoconsult.com
W: www.vivoconsult.com

VOLLERT ANLAGENBAU GmbH

Stadtseest. 12
Weinsberg 74189
Germany
Contact: Mr Jurgen Schiemer
Job Title: Vice President
T: + 49 7134 52 232
F: + 49 7134 52 222
E: juergen.schiemer@vollert.de
W: www.vollert.de
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 INDUSTRIEOTECHNIK GmbH

Am Alten Schacht 6
Duisburg D-47198
Germany
Contact: Mr Julius Körling
Job Title: CEO
T: + 49 20 66 99 66 30
F: + 49 20 66 99 66 62
E: info@vsr-industrietechnik.de
W: www.vsr-industrietechnik.de
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.

WAJAX

3280 Wharton Way
Mississauga
Ontario
L4X 2C5
Canada
Contact: Mr Joel Paikin
Job Title: Product Manager
T: + 1 647 268 6195
E: jpaikin@wajax.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
F: + 39 0535 618 226
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
F: + 1 604 909 1914
E: Barbara@WeatherSolve.com
W: www.weathersolve.com
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/
Webachutes 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, Webachutes enhances productivity and reduces operational costs for clients worldwide.

WEG

Av. Pref. Waldemar Grubba 3300
Vila Lalau - 89256-900
Jaraquá do Sul - SC
Brazil
Contact: Mr Rodrigo Pascon
Job Title: Head of International Marketing
T: + 55 47 3276-4000
E: rpasscon@weg.net
W: https://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@weightron.co.uk
W: www.weightron.com

WEIR MOTION METRICS

101-2389 Health Sciences Mall
Vancouver
British Columbia
V6T 1Z3
Canada
Contact: Mr Camilo Sanchez
Job Title: Marketing
T: + 1 604 822-5842 x36
F: + 1 604 677 5191
E: info@motionmetrics.com
W: www.motionmetrics.com

WIRTECH AG

Zelgstrasse 86
Uetendorf
CH-3661
Switzerland
Contact: Mr K Buehler
Job Title: Marketing
T: + 41 33 346 5050
F: + 41 33 346 5059
E: info@wirtech.ch
W: www.wirtech.ch

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
F: + 1 763 576 9070
E: sales@wolfmhs.com
W: http://www.wolfmhs.com/
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@wpengrs.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 Sergej Wagner
T: + 49 541 9022 13
F: + 49 541 990 220
E: h.kahlen@woelfer-motoren.com
W: www.woelfer-motoren.com

WORLD DOMES - A DOMTEC INTERNATIONAL COMPANY

4355 N Haroldsen Drive
Idaho Falls
Idaho

83401
USA
Contact: Mr Ted Parkinson
Job Title: Marketing
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.

WORLEY PARSONS CANADA (WESTMAR)

400-233 West First Street
North Vancouver
BC
V7M 1B3
Canada
Contact: Mr Stanley Cowdell
Job Title: President
T: + 1 604 985 6488
F: + 1 604 985 2581
E: info@westmar.com
W: www.westmar.com

WUVIO INTERNATIONAL

Honderdland 150
Maasdjik
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.

YERNAUX-PASAGE

Zone Industrielle Beraaugard PB 552
Brive Cedex
19107
France
Contact: Mr Willy Banc
Job Title: Marketing Department
T: + 33 475 66 4600
F: + 33 555 860 563
E: willy.banc@preciamolten.fr

ZAO SMM (CJSC SMM)

Gryvtsov Lane, 1/64
Saint-Petersburg
190000
Russia
Contact: Mr Anton Rishnyak
Job Title: Executive director
CJSC "SMM"
T: + 7 812 325 87 82
F: + 7 812 325 87 83
E: anton@zaosmm.ru
W: www.zaosmm.ru/

ZPMC - SHANGHAI ZHENHUA HEAVY INDUSTRIES COMPANY LIMITED

3261 DongFang Rd
Shanghai
PR
200125
China
Contact: Mr Chen Kai
Job Title: Managing Director
T: + 86 21 5839 6666 (20364)
F: + 86 21 5839 9555
E: chenkaiz@zpmc.com
W: www.zpmc.com
World-famous manufacturer of cranes and large steel structures. Products include quayside container cranes, gantry cranes, shiploader/unloaders, bucketwheel 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



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



Moving coal with a
SENNEBOGEN
material handler.

	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
2000 Engineering																														
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														✓																
Advance Conveying Technologies, LLC																														
Advanced Conveyor Technologies Inc (AC Tek)											✓	✓	✓	✓	✓														✓	
AFM International Inc.	✓																													✓
Ag Growth International (AGI)														✓																✓
Agrico Sales, Inc.	✓							✓			✓	✓		✓		✓										✓		✓		✓
AGUDIO														✓															✓	✓
Air Spectrum																							✓							
AJ Edmond Company																														
Alekon Cranes OU																														
Alex Stewart International Corporation Ltd																														
Alfred H Knight																						✓	✓							
Almex Group / Shaw																														
Almex Industries														✓																
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"														✓									✓						✓	
Ashton Bulk 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		
ASPEC																																
Astec	✓	✓					✓	✓	✓	✓	✓		✓	✓		✓	✓	✓	✓					✓		✓	✓				✓	
Astec Bulk Handling Solutions																																
ATLAS-SSI Co. Inc					✓																									✓		
AUMUND Foerdertechnik GmbH (AUMUND Group)										✓				✓		✓																
Aurecon																																
Aurecon																														✓		
Axiochos Ltd																																
B.V. BECO					✓																											
Basic Machinery Co. Inc.																																
Bateman Manufacturing																																
Bauer Gear Motor GmbH																									✓							
Bedeschi SpA	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Beijing HaoSheng Transmission Technology Co., Ltd.																																
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)														✓																		
Borgi Assali srl																									✓					✓		
Bosch Rexroth AB																									✓							
Bosch Rexroth AG																									✓							
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 GmbH																																
Bulk Cargo Handling BVBA																																
Bulk Material Equipment																																
Bulk Storage Inc																																
Bureau Veritas																																
Bureau Veritas																																
Buttimer Engineering	✓	✓							✓	✓				✓		✓	✓							✓	✓					✓		
BVS Cranes																																
C Spencer Ltd																																
Cable Factory BITNER																																
Cachapuz – Weighing & Logistics Systems, Lda										✓																						
Calim Grab Industry			✓	✓	✓											✓	✓															
Cambelt International LLC										✓		✓		✓			✓									✓		✓				
Capotex																																
Caterpillar (UK) Ltd.																																
Caterpillar SARL	✓	✓					✓	✓							✓															✓		
Cavotec SA																	✓													✓	✓	
CDM Systems, Inc	✓	✓					✓	✓						✓														✓			✓	✓
Centric																																
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 LLC																							✓									
Civettini Italo & c sas (CFS Handling)					✓																											
Claudius Peters Projects GmbH	✓					✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓				✓	✓	✓	✓	✓		✓	✓	
Claudius Peters Technologies S.A.S										✓	✓	✓	✓	✓		✓											✓					
Cleveland Cascades Ltd																								✓								
CNBM International Engineering Co., Ltd.		✓								✓	✓	✓	✓																			
Coal Control																																

	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	
COBRA Europe SAS														✓																	
Coles Associates	✓	✓		✓		✓					✓	✓	✓	✓	✓													✓			
Commodity Inspection Services																						✓									
Conductix -Wampfler Australia																														✓	
Conductix-Wampfler Americas	✓	✓				✓	✓	✓			✓	✓	✓	✓		✓								✓		✓	✓		✓	✓	
Conductix-Wampfler GmbH																								✓						✓	
Continental														✓																	
Continental Construction (Memphis)																														✓	
CONTINENTAL																															
MATADOR RUBBER, s.r.o.														✓																	
Control Systems Technology Pty Ltd																						✓									
Conveyor Dynamics, Inc.														✓																	
CONVIR JSC	✓										✓	✓		✓		✓	✓											✓		✓	
Cooper Marine & Timberlands Coperion											✓			✓						✓		✓									✓
Cotecna Inspection SA																							✓								
CPS Projects (Pty) Ltd	✓	✓		✓												✓								✓						✓	
Cranes Machinery Co. Ltd (CMC)																														✓	
Cromex Makine ve Dis Ticaret Ltd. Sti.					✓																										
CRS - Container																															
Rotation Systems Pty Ltd																														✓	
CSSC Huahai Marine Equipment Co., Ltd																														✓	
CST Covers																										✓					
CST Storage													✓			✓											✓			✓	
CWA Engineers Inc.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dalian Huarui Heavy Industry International CO.,LTD																			✓	✓	✓					✓					
Dalian Start Engineering Co Ltd	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓				✓	✓	✓	✓	✓					✓	✓	✓	✓	✓	✓
DCL, Incorporated	✓						✓				✓			✓		✓			✓	✓	✓			✓		✓	✓	✓		✓	✓
De Regt Conveyor Systems														✓												✓	✓	✓			
DELLNER BUBENZER Germany GmbH	✓	✓				✓			✓	✓	✓	✓	✓	✓			✓	✓						✓			✓	✓	✓		
Delta Ducon														✓													✓			✓	
Demag Cranes & Components GmbH																															
DeMarco Industrial Vacuum Corporation	✓	✓					✓	✓				✓															✓			✓	
DemcoTECH Engineering	✓			✓			✓			✓	✓	✓		✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Den Bakker Dustcrusting Technology b.v.																								✓							
Deutsche Großwälzlager GmbH																															
Disab Vacuum Technology AB																	✓							✓						✓	
DMN-WESTINGHOUSE														✓										✓							
Dome Technology, LLC																									✓				✓	✓	
Don Valley Engineering Co Ltd																															
Donaldson Europe b.v.																								✓							
Donaldson Filtration																															
Deutschland GmbH																								✓							
Doppelmayr Transport Technology GmbH											✓			✓																✓	
Dos Santos International, LLC	✓					✓	✓	✓	✓	✓	✓	✓		✓			✓												✓	✓	
DPC Hydraulic	✓	✓				✓				✓	✓	✓	✓	✓				✓						✓		✓	✓				
Dry-Bag A/S																														✓	
DSM Shipbrokers / Shiptrade																														✓	
DURO FELGUERA, S.A.	✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Dust Solutions Inc																								✓							
E-Crane Worldwide	✓	✓		✓	✓		✓	✓								✓	✓											✓	✓	✓	
EDGE INNOVATE, (NI) LTD	✓						✓			✓	✓			✓		✓		✓	✓								✓	✓	✓	✓	
EFM Design Services Pvt Ltd																															
Egis Ports																														✓	
Eka CTRM Solutions Pty Ltd													✓	✓							✓	✓	✓		✓		✓		✓	✓	
Elecon Engineering Company Ltd	✓						✓			✓	✓	✓	✓	✓		✓		✓	✓	✓	✓			✓	✓	✓	✓				
Elecon Singapore PTE Ltd.	✓						✓			✓	✓	✓	✓	✓		✓		✓	✓					✓		✓	✓	✓		✓	✓
ELETTROTEK KABEL S.p.A.																											✓				
EMG Automation GmbH																															
EmiControls																															
EMS-Tech Inc	✓	✓				✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	✓							✓	✓	✓	✓			✓	✓
EMTICI Engineering Co Ltd														✓													✓				
ENBL (Kunshan) Machinery Co. Ltd					✓												✓	✓													
Enduride																															
Engicon nv (Geldof)	✓									✓	✓	✓	✓	✓		✓		✓				✓		✓		✓					
Engineering Services Hamburg																															
Engineering System Solutions, ES2																															
EPN Solutions																															
EQUIPO LLC			✓	✓	✓																										
Eriez Europe														✓					✓			✓									✓
Esch Group bv																								✓							

	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	
ESI Eurosil BV											✓	✓	✓							✓					✓	✓				✓	
ESL Power Systems, Inc.																															
Euromec S.r.l.					✓																										
Euro-Tramco BV						✓								✓																	
Excel Machinery																															
F. Harley & Co. Pvt. Ltd.																							✓								
Fabtech International Ltd																															
Fairport Engineering														✓				✓	✓					✓						✓	✓
FAM Minerals & Mining GmbH	✓	✓	✓	✓			✓	✓		✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓			✓
FAMAK SA	✓			✓	✓						✓	✓	✓	✓	✓									✓	✓						✓
Fenner Dunlop (Dunlop Conveyor Belting)																															
Fenner Dunlop Americas																															
Fenner Dunlop Conveyor Belting Europe											✓	✓	✓	✓	✓																
Fenner plc														✓																	
Flender GmbH																								✓							
Flexco														✓																	
Flexco Europe GmbH										✓				✓																	
Flexicon Corporation														✓																	
Flexoveyor Conveyor														✓																	
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.		✓				✓			✓							✓	✓						✓	✓	✓	✓	✓	✓			
Golden West Industries																							✓								
Grapplers India Pvt Ltd (Essar Industries)																															
Grupo Navec																															
Günter Jung GmbH																															
Gurtec GmbH																															
Guttridge Limited		✓				✓				✓				✓		✓				✓		✓									
Guven Grab Machine Inc.					✓																										
Hackforth Holding GmbH & Co. KG																															
Hangzhou Huaxin Mechanical & Electrical Engineering Co., Ltd.																															
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 Engineering Co., Ltd.																															
Heyl & Patterson Equipment																															
Member of The HALL Group	✓		✓	✓	✓		✓	✓		✓	✓	✓	✓	✓		✓	✓						✓	✓				✓	✓	✓	✓
HIT S.r.l.																															
Hitachi Construction Machinery (Europe) NV																															✓
HKD Blue																							✓	✓							
Horizon Conveyor Equipment										✓	✓	✓	✓	✓								✓									
HOSCH Fördertechnik														✓																	✓
Recklinghausen GmbH																															
Huebner Speed Monitoring (Pty) Ltd.																															
Hycontrol Limited																✓							✓			✓				✓	✓
IBAU HAMBURG	✓	✓				✓	✓	✓						✓												✓		✓			
ICC Commonwealth																															
ICCE d.o.o.	✓	✓	✓	✓		✓					✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓			✓		✓	✓		✓	✓
IEM FörderTechnik GmbH																															
Igus GmbH																								✓							✓
IHI Transport Machinery Co., Ltd. (IUK)	✓		✓	✓	✓	✓		✓		✓		✓	✓	✓	✓	✓	✓												✓		
Ima Engineering Ltd																															
IMASA																															
Imeca Cranes																															

	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					✓									✓																
Instal B.V.																							✓							
Intermodal Solutions Group																												✓		✓
Intermodal Solutions Pty Ltd																														
International Crane Factory																														
ISAM AG Gesellschaft fuer angewandte Kybernetik	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓	✓								✓	✓			✓		✓	✓		✓
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 Industry Equipment Co																														
Jiangsu Rainbow Heavy Industries Co., Ltd.																														
Jiangsu ZDPM Manufacturer Co.,Ltd																														
Jimway Enterprise Co., Ltd	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓								✓	✓			
Johannes Hübner Fabrik Elektrischer Maschinen GmbH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓
Joy Global Inc																														
Kalenborn Kalprotect GmbH & Co. KG	✓	✓			✓				✓	✓	✓		✓	✓		✓		✓	✓							✓	✓		✓	✓
KenzFigeo Group B.V.	✓	✓	✓	✓			✓	✓								✓							✓				✓			✓
Kiepe Electric GmbH														✓										✓						✓
Kilic Engineering																														
Kinder Australia Pty Ltd														✓									✓						✓	✓
Kingfisher Industrial Ltd	✓	✓			✓				✓					✓		✓		✓	✓							✓				✓
KINSHOFER GmbH					✓												✓							✓			✓			✓
Kiruna Wagon AB																								✓			✓			✓
Kleemann GmbH														✓				✓										✓		
Knight Industrial Equipment																		✓												
KOCH Solutions GmbH	✓	✓		✓		✓	✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓		✓	✓	✓	✓	✓			
Komatsu Mining Corp. Group										✓	✓	✓	✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓			
Konecranes (France)	✓	✓	✓	✓			✓	✓			✓	✓	✓		✓		✓												✓	✓
Konecranes Finland Corporation		✓	✓	✓				✓																✓						
Konecranes Port Solutions - Konecranes GmbH	✓	✓	✓	✓			✓	✓									✓					✓								✓
Kotta Container Company Ltd																														
Krech Ojard & Associates																														
Kröger Greifertechnik GmbH & Co. KG					✓																									
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 LLC																														
Leon Overseas Pte. Ltd																														
Liebherr-Hydraulikbagger GmbH					✓												✓													✓
Liebherr-MCCTec Rostock GmbH	✓	✓	✓	✓			✓	✓																						
Lion Bulk Handling b.v.																														
Listenow GmbH & Co.	✓	✓					✓	✓						✓									✓				✓			✓
Loibl Förderanlagen GmbH	✓	✓									✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Lorbrand																														
Lybover	✓	✓			✓	✓	✓	✓			✓	✓	✓	✓		✓		✓	✓				✓					✓	✓	✓
Lycopodium																														
Macawber Engineering, Inc														✓																
MacGregor Sweden AB			✓	✓					✓	✓				✓		✓												✓		
Mack Manufacturing Inc					✓																									
Magaldi Power S.p.A.																														
MAJOR																			✓											
Mantsinen Group Ltd Oy	✓	✓	✓	✓	✓		✓	✓																						✓

	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																							✓								
MegaDome® Buildings by Harnois																										✓					
MegaRoller Africa														✓												✓				✓	
Mentor Dynamics	✓							✓	✓						✓	✓	✓		✓											✓	
Merit Technologies																															
India Pvt Ltd							✓			✓				✓		✓	✓					✓	✓	✓				✓			
Merrick Industries														✓							✓	✓		✓	✓			✓			
Metalkarma Engineering																															
Technologies pvt ltd																															
Metso Minerals Industries, Inc.	✓		✓	✓	✓	✓	✓	✓			✓	✓	✓	✓											✓		✓			✓	
Metso Outotec Corporation														✓	✓			✓	✓							✓		✓			
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 Limited																															
Mitsubishi Chemical																															
Advanced Materials Inc.	✓	✓				✓	✓	✓						✓		✓													✓	✓	
Mitsui Miike																															
Machinery Co., Ltd.																															
Mobile Conveying																															
Services Pty Ltd																															
Moffatt & Nichol																													✓		
Mole Master																															
Services Corporation™																✓										✓				✓	
Monolithic Constructors, Inc.																										✓					
Motherwell Automation																										✓					
Motridal SpA	✓					✓	✓	✓		✓	✓	✓		✓		✓		✓	✓	✓	✓		✓		✓		✓			✓	
MRS Greifer GmbH		✓	✓	✓	✓																										
MTECK																															
N.M. Heilig B.V.	✓	✓					✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
Nantong Rainbow Heavy																															
Machineries Co.,Ltd.	✓	✓	✓	✓		✓				✓							✓	✓													
Nantong UP Machinery																															
Engineering Co., Ltd																															
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) Ltd																														✓	
Northern Heavy																															
Industries Group Co., Ltd.																															
NSL Engineering Pte Ltd																															
o.z. HENNLICH ENGINEERING	✓						✓																✓								
OPS Crushing & Screening																															
Orthos Projects Ltd.																															

	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	
Pfister Waagen																															
Bilancial GmbH																						✓									
PHB Weserhütte, S.A.	✓	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓		✓					✓				✓	✓	✓	✓		✓	
PHOENIX Conveyor																															
Belt Systems GmbH														✓																	
PLM Cranes B.V.			✓	✓			✓	✓	✓																						
Pneumat Systems Inc																✓												✓		✓	
Polymer Industries - Ultrapoly Division																														✓	
Portasilo Ltd														✓		✓					✓					✓					✓
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 Pelayaran Sinar																															
Shipping Indonesia																															
PT SpanSet Indonesia																														✓	
PT Thiess																															
Contractors Indonesia																															
PT. Bando Indonesia														✓																	
PT. Hardjadinata Pratama																															
Internasional																															
PT. Lelangon																															
PT. Thermalindo Sarana																															
Labortoria																							✓								
QCA Systems Ltd.	✓	✓	✓	✓		✓	✓	✓		✓	✓	✓	✓	✓		✓							✓	✓	✓	✓	✓	✓	✓	✓	
Qingdao Haixi Heavy-Duty Machinery Co.Ltd																															
Qingdao Huaxia																															
Rubber Industry Co. Ltd.	✓	✓				✓				✓	✓	✓	✓	✓			✓	✓	✓							✓					
QML Services																														✓	
Quality Handling Systems Pty Ltd																							✓								
Quanergy																															
Quarry Mining LLC							✓	✓						✓		✓		✓	✓					✓							
Qube Ports & Bulk																															
R & S Srl / Roncuzzi - WAM Group	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					✓	✓	✓	✓		✓	✓		✓	✓	
RAM Lifting Technologies	✓	✓	✓	✓	✓		✓										✓						✓	✓		✓	✓			✓	✓
Rapat Corporation																															
Rapidpack																															
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 B.V.	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓		✓				✓									✓	
RHC Deutschland GmbH	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓					✓		✓				✓	✓	✓	✓	
Richmond Engineering Works	✓	✓	✓	✓		✓	✓	✓			✓	✓	✓	✓			✓							✓		✓	✓	✓	✓	✓	
Richwood Industries, Inc.														✓																✓	
RIKON A/S	✓	✓	✓	✓	✓		✓	✓									✓							✓						✓	
RINA Consulting S.p.A.	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓		✓														✓	
Ringspann GmbH																															
Rocktree Logistics Pte. Ltd.	✓	✓			✓	✓	✓	✓	✓	✓				✓		✓				✓	✓	✓	✓	✓	✓	✓	✓		✓	✓	
Ron>R																															

	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
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 & Co. KG															✓															
Scorpio Engineering																														
BMH Pvt. Ltd	✓	✓	✓	✓		✓	✓	✓	✓	✓					✓		✓	✓			✓	✓		✓		✓		✓	✓	
ScrapeTec Trading GmbH															✓									✓						
Seabulk Inc	✓								✓																				✓	✓
Sempertrans Conveyor																														
Belt Solutions GmbH															✓															
Sempertrans France																														
Belting Technology																														
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 Qifan Co., Ltd.		✓			✓																									
Shanghai Yo-Pi Port																														
Machinery Co. LTD																														
Shanthy International	✓	✓	✓	✓	✓	✓	✓	✓		✓																				
Shi.E.L.D. Services srl	✓		✓	✓	✓		✓		✓	✓					✓	✓	✓	✓			✓		✓							✓
SIA Gravit			✓	✓	✓																								✓	
SIBRE - Siegerland																														
Bremsen GmbH															✓										✓					✓
SIDERAR / TERNIUM	✓	✓				✓																								
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																														
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 srl	✓						✓			✓	✓				✓		✓	✓	✓	✓							✓			
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	Bln	Wg	S&I	DC	DC&A	ES	SS	RL/U	CBH	EC	O
Superior Industries																														
Superior Industries, Inc.	✓	✓					✓	✓		✓	✓	✓	✓	✓		✓												✓		
Supreme Manufacturing, Inc.																														
Synergy Engineering 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 Kabelschlepp GmbH	✓	✓	✓	✓		✓	✓	✓	✓		✓	✓	✓											✓			✓	✓		
Tsubakimoto Bulk																														
Systems Corp.														✓																
TTS (Transportation																														
Technology Systems) LLC	✓	✓					✓	✓		✓	✓	✓	✓	✓		✓	✓									✓	✓			✓
UAB "PATIKIMA LINIJA"																														
ULMA Conveyor Components																														
Veenstra Machinefabriek B.V.	✓																						✓							
Ventyx																														✓
Verachttert Nederland 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																														
Wirttech AG														✓																
Wolf Material Handling																														
Systems	✓	✓					✓	✓	✓	✓	✓	✓	✓	✓		✓	✓										✓			
Wolf Point Engineers																														
& Contractors	✓		✓	✓			✓	✓		✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		✓	
Wölfer by WiCHMANN																														
E GmbH																														

885 G**HYBRID****ELECTRO**

**GREEN HYBRID
SYSTEM SAVES
35 % ENERGY**



For further information
» 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

SENNEBOGEN



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