

GLOBAL PORT EQUIPMENT {
Iberia


Telestack
Mobile Bulk Material Handling



HOPPER FEEDERS



Telestack has many years experience supplying a range of mobile hopper feeders around the world. The mobile hopper feeder range allows the operator to directly discharge from wheel loaders/ grab cranes and excavators to eliminate the double handling of material on site. The fully mobile units allow a 'controlled' feed of material into other Telestack or auxiliary units. Telestack mobile feeders are specially designed for the application.





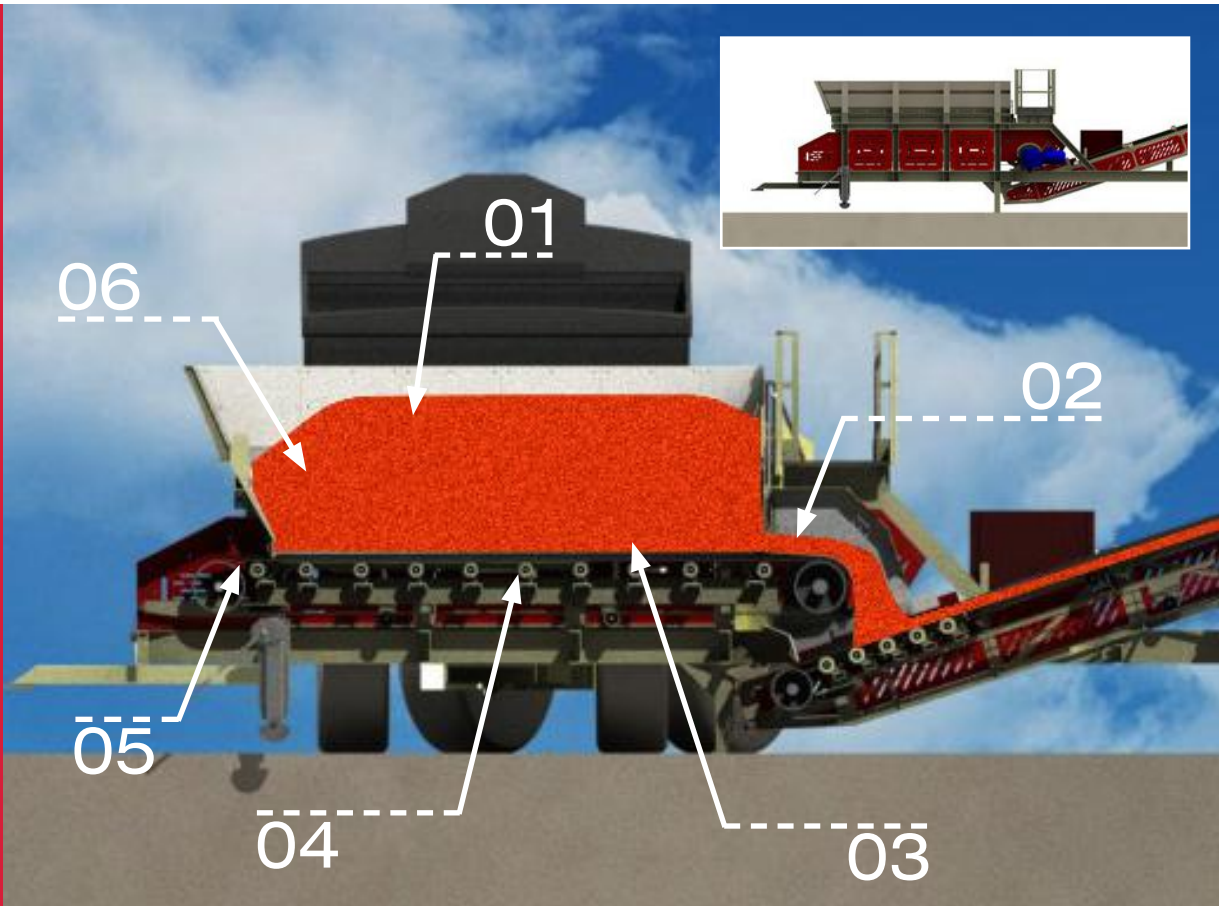
Telestack continues to excel in providing innovative mobile bulk material handling systems to its worldwide customer base. This has been emphasised in the extensive range of mobile Hopper Feeders offered by Telestack.



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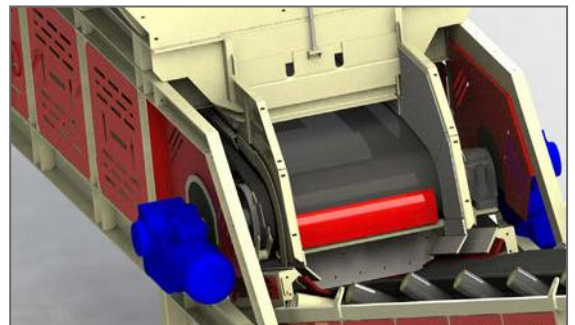
01. HOPPER FALL BREAK

Designed and positioned to absorb impact during the feeding process. Protects the belt from impact of large lump size material. Fall break position reduces drive power requirements.



02. HOPPER GATE

Adjustable hopper gate with screw adjustment to regulate flow of material from the hopper onto the incline conveyor, spring tensioned primary face scraper, clearing material off the belt.



03. HOPPER SEALING

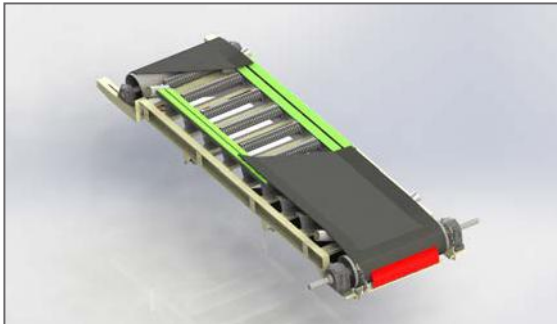
Full length tapered sealing ensures material is contained within the hopper and eliminates material spillage. Removable guards allow easy access for adjustment.



BENEFITS OF HOPPER FEEDERS

- Loading rates up to 3,000 MTPH (3,300 STPH)
- Range of designs and hopper capacities depending on feeding equipment and production rates onsite
- Complete on-site mobility including tracks (optional rubber tracks), wheels and rail mounted to suit all ground conditions
- Range of power options available: Diesel, All Electric, Dual power, On-Board Generator
- Increased safety as no need to stockpile with wheel loaders
- Can be packed into 40ft containers for easy, cost effective transport around the globe
- Unrivalled mobility and flexibility when in operation
- High specification machine designed for ease of maintenance commanding an excellent resale value at project conclusion
- Heavy duty design and manufacture
- Ability to handle complete range of materials such as Coal, Grains, Fertilisers, Biomass, Ore's (Iron, copper, gold, bauxite), Aggregates, Woodchips, Mulch, Wood Pellets, Sulphur, Cement Clinker and many more

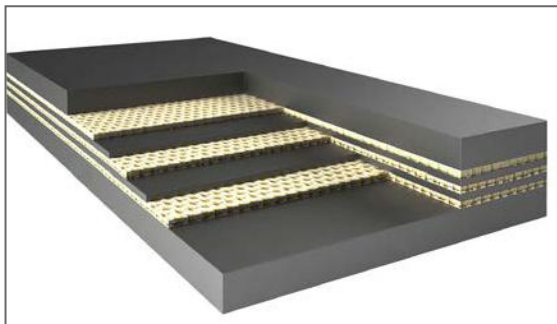
Hopper Feeders are designed to hold a buffer of material within the hopper which allow a regulated flow of material to travel onto the main incline conveyor. The Telestack Hopper Feeder range is designed with many standard features that make it one of the leading brands in the international marketplace.



04. ROLLER/IMPACT BARS

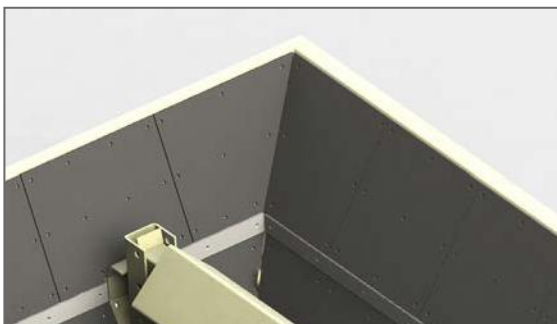
The feeder module is designed around the material. Lump size & material density affect the module design. Options include:

1. Standard rollers
2. Rubber coated impact rollers
3. Impact rollers with impact side bars
4. Full impact beds
5. Heavy duty apron chain feeders



05. BELTING

Belting is selected taking into consideration the material composition. The lump size, density, drop height, tonnes per hour and flow characteristics all affect the belt selection. It is not a case of one size fits all.



06. WEAR LINERS

Liners are selected based on material characteristics. Lump size, density, drop height, loading method, moisture content and flow characteristics all determine the liners fitted. Liners include:

1. 6-12 mm ($\frac{1}{4}$ " - $\frac{1}{2}$ ") hardened steel liners
2. Ultra low friction plastic liners
3. Stainless steel

HOPPER FEEDERS ARE USED FOR..... QUARRIES **STOCKYARDS** PORTS & INLAND MINES CEMENT PLANTS **POWER** **BIOMASS FUEL HANDLING** RECYCLING PL



QUARRYING/ RECLAIMING & STOCKPIILING



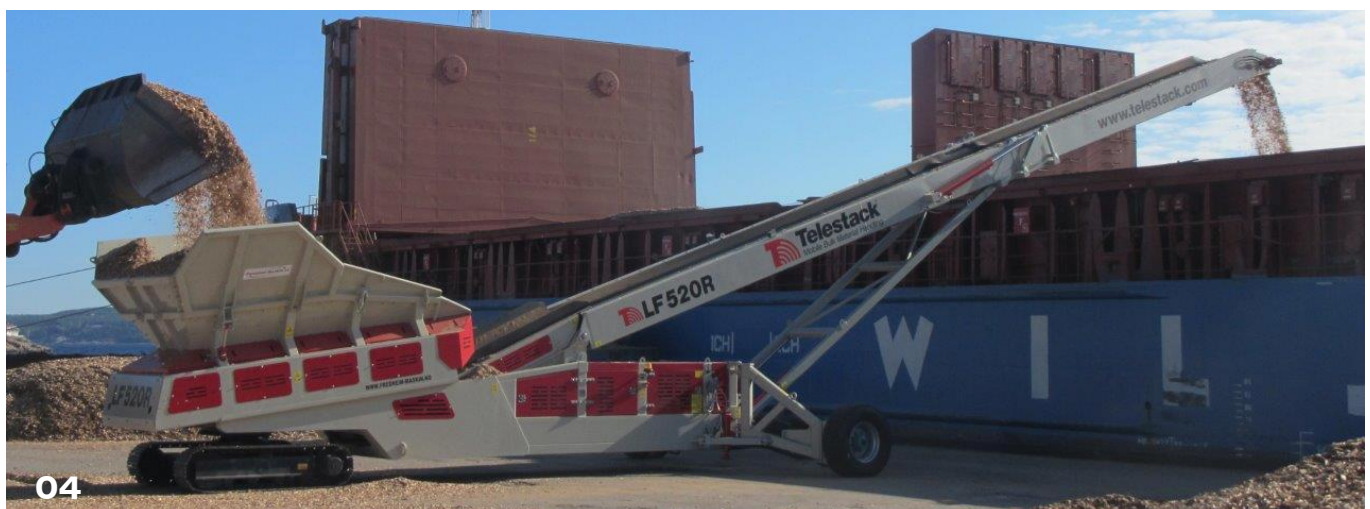
ND TERMINALS IRSTATIONS LANTS

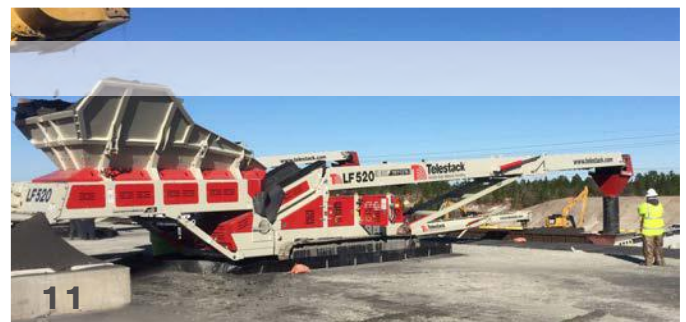


- 01 Wheel mounted Hopper feeding Radial Telescopic in a warehouse
- 02 Wheel Mounted Quarry Feeder
- 03 Track mounted Hopper feeding static screen plant
- 04 Hopper feeder reclaiming coal
- 05 Track mounted hopper in site clearance operation
- 06 Track mounted Hopper Feeder with vibrating grid to remove oversized material
- 07 Track mounted Hopper Feeder with hydraulic tipping grid to remove oversized material
- 08 Track mounted Hopper Feeder reclaiming coal to a Radial Telescopic Conveyor in a coal fired Power Station.
- 09 LF hopper with low level feed in height stockpiling sand
- 10 LF hopper with low level feed in height stockpiling sand

TYPICAL APPLICATIONS

BARGE/ VESSEL LOADING





- 01 Mobile hopper feeder loading a barge
- 02 LF hopper with low level feed in height loading aggregates to coaster vessel
- 03 HF Revolution loading vessel from wheel loader
- 04 LF Hopper directly loading vessel from wheel loaders
- 05 Wheel mounted Hopper Feeder feeding All Travel Shiploader from wheel loader
- 06 Track mounted Hopper directly feeding All Travel Shiploader from Cat 988 loader @ 2,000MTPH (2,200STPH)
- 07 LF Hopper fed from grab crane in barge-unloading application
- 08 Wheeled hopper feeder fed from grab crane in barge-unloading application
- 09 HF Hopper ship unloading from grab crane
- 10 Track mounted Hopper Feeder & Track Conveyor loading rail wagons
- 11 LF Hopper and Mobile Track Conveyor loading rail wagons

OPTIONS

Telestack Mobile Hopper Feeders are custom designed and manufactured to meet the specific needs of the operator with these options available as standard. The options allow complete flexibility for the operator when taking into consideration the differing mobility needs, materials, power and electrical requirements of the client.

**If other options are required please contact your dealer or the Telestack factory.*

MOBILITY



TRACK MOUNTED



WHEEL & DOLLY WITH TOW BAR



WHEEL & TOW BAR

RADIAL BOOM



TRACK MOUNTED HOPPER FEEDER
WITH 180° RADIAL BOOM OPTION

RADIAL UNIT



LF RADIAL FEEDER WITH 180° RADIAL
STOCKPILE OPTION AND TRACK BOGIE

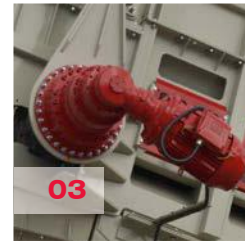
REVOLUTION



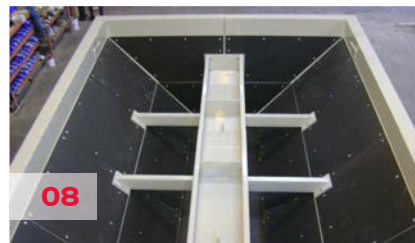
360°

The Telestack Revolution series comprises of the hopper feeder range with centre mounted slew bearing that enables 360° rotation and movement of the hopper to enhance the mobility on site. This is the latest innovation from Telestack to ensure the ultimate flexibility of the hopper feeder range when in a range of applications. The mobility feature makes it ideal for barge loading and unloading, rail loading / unloading and stockpiling. The ability to move parallel enables the operator to manoeuvre the unit parallel to the vessel removing the need to reposition the unit, when ship-loading or ship-unloading thus enhancing loading rates and efficiency.

POWER



ROLLER/ IMPACT BARS



LINERS/ HOPPER



DUST CONTAINMENT & SUPPRESSION



- 01 Dual Power - Diesel Hydraulic & Electric Hydraulic
- 02 Diesel Hydraulic Engine
- 03 All Electric
- 04 All function radio remote control
- 05 Diesel Electric Generator
- 06 Heavy duty apron chain feeder
- 07 Range of rollers/ impact bar options including full impact beds
- 08 Hardened Steel Wear Liners- Low Friction - Stainless Steel
- 09 300/500/700/900 mm (12", 20", 28", 36") extensions to increase capacities
- 10 Range of paint finishes available from standard to marine specification
- 11 Fully enclosed canvas covers on conveyor
- 12 Rubber discharge chute
- 13 Galvanised under trays

OPTIONS

HOPPER FEEDERS/ HOPPER STACKERS

Range	Incline Conveyor Length	Peak throughput (Tonnes/H)	Discharge Height Max Angle	Belt Width Feeder	Belt Width Incline	Stockpile Volume	Stockpile Mass
LF 514	14m (48ft)	500	6.3m (20ft 6")	1200mm (48")	1200mm (48")	450 m3 (589 yd3)	720 Tonnes 794 (Ton)
LF 518	18m (60ft)	500	8.1m (26ft 3")	1200mm (48")	1200mm (48")	845 m3 (1,105 yd3)	1,350 Tonnes (1,488 Ton)
LF 520	20m (65ft)	500	9.2m (30ft)	1200mm (48")	1200mm (48")	1,315 m3 (1,720 yd3)	2,100 Tonnes (2315 Ton)
HF 518	18m (60ft)	500	7.9m (25ft 8")	1200mm (48")	1000mm (40")	845 m3 (1,105 yd3)	1,350 Tonnes (1,488 Ton)
HF 520	20m (65ft)	500	9m (29ft 6")	1000mm (40")	1000mm (40")	1,315 m3 (1,720 yd3)	2,100 Tonnes (2,315 Ton)
HF 521	21m (70ft)	500	9.1m (29ft 8")	1200mm (48")	1200mm (48")	1,215m3 (1,589 yd3)	1,945 Tonnes (2,144 Ton)
HF 1021	21m (70ft)	1000	9.1m (29ft 8")	1200mm (48")	1200mm (48")	1,345 m3 (1,759 yd3)	2,150 Tonnes (2,370 Ton)

All of above available as Track Mounted

RECLAIM/ FEEDING HOPPERS

Range	Incline Conveyor Length	Peak throughput (Tonnes/H)	Discharge Height Max Angle	Belt Width Feeder	Belt Width Incline	Hopper Capacity	Hopper Bin Feed Width
HF 12	14m (48ft)	100 -1000	4.8m (15ft 7")	1200mm (48")	1000mm (40")	12 m3 (16 yd3)	4.5m (14ft 7")
	18m (60ft)	100 -1000	6.0m (19ft 6")	1200mm (48")	1000mm (40")	12 m3 (16 yd3)	4.5m (14ft 7")
HF 18	15m (50ft)	1000 -1500	5.6m (18ft 3")	1200mm (48")	1200mm (48")	18 m3 (24 yd3)	5.0m (16ft)
	18m (60ft)	1000 -1500	7.0m (23ft)	1200mm (48")	1200mm (48")	18 m3 (24yd3)	5.0m (16ft)
HF 24	15m (50ft)	1500 - 2000	5.6m (18ft 3")	1200mm (48")	1200mm (48")	24 m3 (32yd3)	6.0m (19ft 5")
	20m (65ft)	1500 - 2000	7.0m (23ft)	1400mm (56")	1200mm (48")	24 m3 (32yd3)	6.0m (19ft 5")

All of above available as Track Mounted or Wheel Mounted



HF 518 bargeloading aggregates

SHIPPING & ONSITE ASSEMBLY & INSTALLATION

- All equipment is designed, manufactured, built and fully tested before dispatch. Each unit is available for inspection by the Client if required prior to dispatch.
- Most hopper feeder units are shipped via 'Ro-Ro' and easily tracked into position, folded out and ready to operate.
- Smaller units can be packed into 40ft (12m) containers to reduce transportation costs for the operator
- Wheeled and static are generally All Electric. All units are pre-wired. Plug and play electrics eliminates complex assembly on site
- Telestack can supply (if required) an Installation Engineer to oversee the process, dry/wet commission the unit and provide detailed training for operators for containerised shipments.



ONE COMPLETE RO-RO



ONE PART RO-RO AND ONE PART CONTAINER





Telestack specialise in the complete design, manufacture, installation and commissioning of mobile bulk material handling systems. We have a global proven record in a range of applications including quarry and mining industries, ports & inland terminals, stockyard management, power stations, rail yards, steel mills, cement kilns and many other bulk material handling industries. Our mobile solutions offer significant operating cost savings compared to traditional methods of material handling (wheel loaders, haul trucks, static conveyors), as well as providing Environmental, Health and Safety and other benefits. Other significant benefits include reduced planning requirements due to product mobility and the flexibility to move Telestack mobile equipment around the site or from site to site.

EXPERIENCE

The Telestack team have 30 years international experience designing, manufacturing, installing and supporting equipment. We offer the right solution for the customer and customise the design to suit your specific requirements. Our long-standing Sales and Application Specialists are involved at every stage of the process and our Project Management department ensures that the unit is built to the agreed specification and within the agreed timeframe. Our company has naturally matured into two distinct divisions: Telestack

Aggregates and Mining and Telestack Ports and Inland Terminals. These specialist divisions truly understand their trade and our Clients benefit from our experience. There is also a wealth of reference sites in a range of applications across the globe that demonstrates this experience first-hand and an exceptionally high returning custom rate – well above industry standard! Our customers range in size, nature and requirements but we are steadfast in the conviction that the customer at the heart of our business – without them we cease to exist!

Telestack products can handle all free flowing bulk materials including ores, coal, aggregates, fertilizers, grains, woodchips, pellets and many more bulk materials! Working from their modern headquarters in the N. Ireland, Telestack offer a complete in-house design, manufacture and assembly of all units. All Telestack units are fully built and tested prior to dispatch. All electric/ hydraulics and operating functions are tested and recorded and comprehensive quality checks are recorded prior to dispatch (in strict accordance with ISO guidelines). Any issues are identified, resolved and re-tested before they leave our premises.

Extensive investment has been made to ensure our global supply chain is responsive to our needs and the needs of our customer. We source components that meet our high expectations and trade only with

suppliers who are best positioned to support our global Clients.

QUALITY

Quality has always been at the core of the Telestack brand and they have always been renowned throughout the industry for the high quality of their machines. As a UKAS accredited company, ((ISO 9001 (Quality Management), ISO 14001 (Environmental Management), OHSAS 18001 (Health & Safety Management)), the Telestack Integrated Management System (IMS) ensures that anything which has an effect on overall business performance is monitored, actioned and improved as a natural part of their business culture. Complimented by the Investors in People Award, Telestack take quality seriously at every stage from the people that they employ, to their supplier of components to the internal processes that they use on a daily basis.

There is an advanced lean manufacturing program in place and as well as an advanced in-house safety program for all employees. We have made significant investment in our facilities and can now boast one of the most technically advanced blasting/ painting facilities in the world.

In addition Telestack equipment can be designed for the onerous demands of mining applications and we are an approved supplier of equipment that meets Western Australian Mining Structural Stand-



ards (AS 4324.1), guarding (AS1755) and electrics (AS3000). We have also designed structures to operate safely in earthquake zones throughout the world. Our electrical design team can also design/specify to meet local electrical standards.

ASSEMBLY/ INSTALLATION

Site assembly can be less than one week with limited civil construction needed on site. Our service engineers can be arranged for dry and/or wet commissioning of units on-site and on-site training can be provided. Engineers can also support your equipment in the field as part of our Field Service Programme to ensure

uptime of the product. Additionally we also have a network of Dealers, Agents and Partners across the globe that are hand-picked for their expertise in the material handling field, and who are there to assist you on our behalf!

AFTERSALES

The Telestack after-sales department work continuously to put the customer at the heart of their department and they aim to solve problems quickly to ensure the safe and efficient operation of Telestack equipment in the field. Our parts packages are tailored to suit the equipment, the application and the location and our

team are focused on ensuring you receive the correct part the first time, on time, every time!

To support the Telestack units in the field, we have a product helpdesk that is manned by our Engineers who understand and have personally worked with Telestack units. If equipment in the field does experience issues, the Telestack support desk is committed to get the unit up and running as quickly as possible. We act with urgency and are responsive to the business needs of our customer!

Telestack has successfully established a reputation as a supplier of choice with many blue chip companies around the world including:

- Port of Panama City (USA)
- Port of Vostochny (Russia)
- Port of Alexandria (Egypt)
- Port of Gangavaram (India)
- Port of Brisbane (Australia)
- Port of Coquimbo (Chile)
- Port of Belfast (N.Ireland)
- Port of Dhamra (India)
- Port of Kembla (Australia)
- Port of Barranquilla (Colombia)
- Port of Ust Luga (Russia)
- Port of Imbituba (Brazil)
- Port of Kakinada (India)
- Port of Buchanan (Liberia)
- Port of Jaigarh (India)
- Riga Commercial Port
- Krishnapatnam Port
- Premier Periclase
- Cemex
- Mechel
- Nibulon
- BHP Billiton
- Holcim
- Ural Kili
- Norilsk Nickel
- La Farge
- Rusal
- Tarmac
- Fortescue
- Oldendorff
- Tata Steel
- Van Oord
- Fomento
- Thyssen Krupp
- La Farge
- Larsen + Toubro
- Glencore Xstrata
- Heidelberg Cement
- Martin Marietta
- Vulcan
- Glencore Xstrata
- Severstal
- Eurovia
- LKAB
- FLSmidth
- Anglo American
- Codelco
- JSW
- Ennstone Breedon
- Imerys
- CRH
- Suez
- Jindal Steel
- Arcelor Mittal
- Electrosteel
- Peter Hambro
- Rio Tinto
- Qube

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POWER
TO MOVE
MATERIALS**