



Ready to take on your toughest loads.

Kalmar reachstackers
for industrial handling.



Built to meet your needs.

Kalmar offers a wide range of highly efficient and productive Industrial Handling Reachstackers that can be tailored to meet your needs.

With over 10,000 machines in operation around the world, Kalmar reachstackers are known for their reliability, robustness and their innovative design. Kalmar Reachstackers are available with a wide range of attachments including hooks, grippers, and magnets; making them suitable for a wide variety of materials like steel and metals, wind tower components, pre-cast concrete sections, and heavy or bulky items that need to be moved in the logistics or mining industries.

Built on a proven platform.

Our latest platform has been proven and tested in the field across a wide range of different applications. You will benefit from a highly stable and strong chassis, a common electrical system that helps with quick and easy troubleshooting, a colour HMI screen and a standardised driver interface, making it easier for your operators to drive efficiently and safely.

Built to your meet your needs.

With a wide range of reachstackers on offer, we are able to identify which is the most appropriate and cost-effective solution for your needs. With many different options and attachments to choose from, we will be able to work with you to build a machine that meets your exact requirements.

No job too heavy.

Our range of industrial reachstackers can lift loads from up to 42 tonnes to 130 tonnes. They are available with a wide range of wheel bases, capacities and attachments, giving you an endless choice of combinations. They are suitable for:



Steel and metals.

With hooks, magnets and gripper attachments available, our reachstackers are suitable for handling slabs, plates, sheets, bloms, billets, bars, pipes, coils, rebars and cast pieces.



Energy.

With lifting capacities up to 130 tonnes, you can safely handle all wind energy components, like tower sections, nacelles and wind turbine blades or other heavy items used in the oil & gas industry, like off-shore pipes and large pipe reels.



Pre-cast concrete.

Concrete building sections or other pre-cast items like foundations, tunnel sections, pillars or girders can be handled with ease. Large marble slabs or wave breakers can also be handled with the addition of slings or other specialised attachments.



Heavy and bulk goods.

No matter what your heavy lifting requirements we have an attachment and reachstacker that can be built to meet your specifications.



Logistics.

Logistics and the movement of all types of heavy cargo need to be handled quickly, efficiently and with care. With a vast range of lifting capacities and attachments we can build you the machine you need.



Mining.

Reachstackers can play a vital role in the careful or precise handling of a range of heavy and bulky goods; including special-sized containers, big tyres, heavy mining components and other over-sized cargo.



Safe and efficient.

All of our machines are highly efficient and are available with either in EU stage 3A and stage 4 (US EPA Tier 3 or Tier 4-Final) emission standard ratings. You get a choice of powerful, yet fuel efficient engines, an intelligent operating system and a world class operating environment for your drivers. You can also choose from a range of fuel saving options like Stop/Start Technology and ECO Drive, where you can reduce your fuel consumption by up to 20%. Every one of our machines comes with all the latest safety features and a range of options to further enhance the safety for your drivers.

*Machine details:
The DRG450-65S5 with 20-40 ft container spreader, 55-degree side tilt, hydraulic door opener, 4 lift eyes for slings and a separate C-hook attachment. Built to handle containers, recycled metals and steel coils.*

Guaranteed to cut costs.

Reduce fuel costs, lower emissions.

Increasing fuel costs and tougher emissions standards means you need a machine that is lean and green, while still maintaining the highest levels of operational productivity. The Kalmar Eco Reachstacker provides you with an eco-efficient solution that will have a positive financial impact on your business. It uses up to 40% less fuel than older machines and 25% less than more recent machines, reducing your fuel costs and lowering your emissions significantly while matching the productivity levels of machines with much bigger engines.

Reducing fuel consumption also reduces your emissions, which will enhance your environmental reputation and help you meet current and future emissions standards.

Guaranteed to deliver.

Knowing exactly what your fuel costs are going to be each month gives you a greater level of financial predictability, which is why Kalmar is offering a Fuel Guarantee with each of its Eco Reachstackers. With an agreed and fixed level of fuel consumption, based on a set of agreed metrics, you'll have complete control over your variable fuel costs.

Should the machine exceed the guaranteed levels of fuel consumption, Kalmar will compensate you for the additional fuel cost with a one off payment. The fuel guarantee also provides your drivers with specialist training and access to Kalmar Insight, giving you the ability to track and monitor your reachstacker and take immediate actions to optimise its operational efficiency.

Enhanced driving experience.

Improving the working environment and safety of your drivers is extremely important, as it will improve their productivity and reduce accidents. With our enhanced driving experience your operators will feel more in control, with smoother acceleration, less cabin noise, more responsive braking and steering systems combined with improved joystick control, will together speed up spreader operations.

Guaranteed to save you thousands.

Based on months of real operational data collected through Kalmar Insight, you can see the reduction in fuel costs and emissions between older machines and our new Eco Reachstacker.

Annual consumption, operating cost and emissions.			
	Kalmar Eco Reachstacker	5 year old machine	10 year old machine
Litres / gallons	33,270 / 8,789	41,068 / 10,849	47,145 / 12,454
EUR / USD	41,587 / 49,904	52,334 / 62,800	58,932 / 70,718
Tonnes/klbs of CO ₂	110 / 243	136 / 300	156 / 344



Saving you **up to 25%** in fuel costs in comparison to a recent machine.

Saving you **over 40%** in fuel costs in comparison to an older machine.

Calculations and assumptions: Fuel consumption data has been collected over a six month period using Kalmar Insight with an Eco Reachstacker, a 5 year old and an 10 year old reachstacker operating normally, with comparable idling time. We have used the following metrics for these calculations: 2000 operating hours per year, fuel at 1.25€ a litre and 2640 grams of carbon being produced per litre of fuel used. An average annualised EUR/USD exchange rate of 1.20 has been used in these calculations from ofx.com.

Steel and metals.

With over 50 years of providing innovative solutions to the steel industry, handling heavy steel and metal products is one of Kalmar's specialties. Designed to withstand high temperatures of up to 800°C they can be fitted with a wide range of attachments including hooks, magnets and grippers. Kalmar reachstackers provide greater levels of flexibility than other lifting equipment so you can handle a broader range of much heavier loads.

Slabs, plates and sheets.

Our Tool Carrier can be fitted with magnets, grippers or hooks and can lift up to 65 tonnes. Magnets can work in temperatures up to 400°C and grippers up to 800°C, making them ideal for working around industrial smelters. Magnets and grippers can also be fitted to a container handler in the 20ft position.



Bloms, billets and bars.

Lifting, stacking and moving steel products, like billets or bloms can be done with precision, speed and safety. Our Tool Carrier can rotate, tilt and side-shift to make handling your load easier and more efficient.



Coils, rebars, pipes and castings.

Handling coils, rebars, pipes and castings require more specialist attachments. Our Tool Carrier can be fitted with a C-Hook or a coil grabber for coils and lift beams, jigs or slings for handling other items like castings, ingots or heavy machine parts.



Operating in extreme temperatures.

voestalpine's Steel Mill in Linz has four Kalmar reachstackers handling steel slabs. The slabs are up to 2.20 m wide, 12 m long and between 100 and 300 mm thick. The hot slabs are handled with hydraulic grippers, in temperatures up to 700°C. At lower temperatures below 400°C, slabs are handled by magnet. Prior to purchasing new Kalmar reachstackers voestalpine was only able to move slabs up to 1.80 m width, now they can handle both wider and heavier slabs up to 50 tonnes.

"Kalmar has proven that it has the competence to adapt the vehicles according to our special needs and particular requirements that go beyond the standard demand" - Markus Schinko, Managing Director, Logistik Service GmbH (LogServ)



*Machine details:
The DRG540-65A6X with a multi-purpose Tool Carrier, can be fitted with a magnet or hydraulic grippers and handle loads up to 50 tonnes. This machine has a long boom outreach, 300-degree rotation and additional heat protection fitted.*

The energy generating industry.

The rapid growth in the global power and alternative fuels industries has resulted in a high demand for machines that are flexible and able to handle unusual loads, like wind energy tower sections that weigh over 100 tonnes. Kalmar has developed a complete range of reachstackers specially for the wind, oil, gas and biomass industries, including the Kalmar Super Gloria reachstacker, which can handle weights of up to 260 tonnes when working in tandem with a second machine. Kalmar has a range of attachments designed for the efficient and safe handling of many specialty structures including tower sections, hubs, nacelles, rotor wings, off-shore pipes, power cable drums and pipes on reels.

Wind.

When fitted with hooks you can lift large structural sections up to 130 tonnes and, when working in tandem with another Kalmar Super Gloria, you can lift sections up to 260 tonnes in weight or similar heavy components, like nacelles or tower sections.



Oil and gas.

With lifting capacities of up to 130 tonnes, Kalmar Reachstackers can be fitted with a variety of attachments and slings enabling you to handle heavy pipes, large power cable drums, pipes on reels and other heavy items with ease.



Biomass and waste-to-energy.

Our reachstackers can handle a variety of different materials and equipment for the alternative energy sector. Our 55-degree tilting spreader can load or unload containers filled with biomass or waste-to-energy materials with great precision. There are also two spreader versions available - with either sideways or with a lengthways tilt.



Lifting over 200 tonnes in tandem.

The demand for wind towers across the world has dramatically increased, which has put increased pressure on the wind industries logistics chains. To help deal with larger and heavier sections needing to be moved, Kalmar delivered two new Super Gloria reachstackers, each able to lift up to 130 tonnes or when working in tandem, large wind tower sections weighting around 200-250 tonnes each. A new world record in heavy lifting for a reachstacker.

"We have started working with our new Super Gloria's and know they will give us the same satisfaction and assurances that our other 6 Kalmar machines have given us". - Samuel Iglesias, Logistics Daniel Alonso Group, Manufacturers of Wind Turbine Towers.



Machine details:
Two Kalmar Gloria DRG1300-92ZX reachstackers, Kalmar's largest ever built, each capable of lifting up to 130 tonnes, or when working in tandem giant wind tower sections weighing 200-260 tonnes.

Heavy and bulk goods.

Kalmar reachstackers are well known for handling a large range of fully laden containers in terminals around the world and have earned a reputation for their reliability and versatility. It is this versatility which enables them to be built to your exact specifications to handle your bulky and heavy goods requirements. Kalmar reachstackers can easily be re-deployed from one lifting application to another, when your handling needs change. This is particularly relevant if you are handling bulk goods which need to be loaded or unloaded from a container, flat racks or other types of transportation.

Dry goods.

Designed specially to lift empty containers filled with dry goods like grains, pellets, plastics, or mineral sands, the spreader can be tilted up to 55 degrees so its load can be precisely and quickly unloaded from the container. The system includes a hydraulic lock to open the container doors.



Aggregates.

The reachstacker spreader when fitted with a tilting head can empty containers filled with aggregate material easily, or when fitted with a hook can lift bagged or contained aggregate material.



Flat racks.

Large heavy loads like machinery or equipment sections packed on flat racks can be handled in several different ways, with a strong lift beam or frame, with lift hooks, multiple slings or chains.



An attachment for any task.

Our reachstackers can be fitted with a single or double lift hook, different types of spreaders, extra tilting head or a multi-purpose tool carrier. Both the spreader and the tool carrier can be fitted with a range of attachments, from lift beams, frames, special hooks, forks, grippers or magnets - depending on your handling task. Each is easily and quickly interchangeable.

Machine details:
This DRG450-60S5 reachstacker was delivered with two attachments. The first a tilting head with a safety clamp that grips the container while it is being tilted and the second, hooks for lifting coils. It can lift loads of up to 45 tonnes.

Concrete, precast, rocks and logistics.

With a wide range of machines, lifting capacities and attachments, Kalmar will be able to deliver a machine for you that meets your exact needs for handling heavy and difficult loads.

Concrete, precast and rocks.

All types of large-size precast sections for buildings, road work, bridges, tunnels or even foundation stones can be handled with precision, safety and efficiency. Hooks or other special attachments can handle loads up to 130 tonnes.



Mining logistics.

Special cargoes need a precise, efficient way of lifting that doesn't compromise on safety. With a vast range of machines, attachments and options we can build you the machine you need for your special cargo. Ideal for handling extra-large machinery tyres, drilling machines or other important large and heavy equipment used in mining.



Special logistics.

Containers, trailers and all kinds of other special cargo can be handled with our multi-purpose reachstackers. All machines can be equipped with additional attachments for handling of a wide range of goods and over-high folding legs can be fitted to the spreader for working with barges or on the second rail in intermodal operations.



Versatile and efficient.

Richardson Stevedoring was looking for a flexible and versatile machine from Kalmar. The machine needed to be able to load and unload barges quickly and safely to meet the increased demand expected from the Panama Canal expansion project. Plus, handle multiple load types and be easily deployed to other tasks within their operations when needed. The answer: Kalmar Super Gloria.

With its heavy lifting ability and different attachments, the machine has been used beyond the loading and unloading of barges, handling heavy steel coils with ease and when needed stacking containers in the yard.

"Loading barges has been made a lot easier". Kelly Richardson, Richardson Stevedoring and Logistics Company, Houston, Texas.

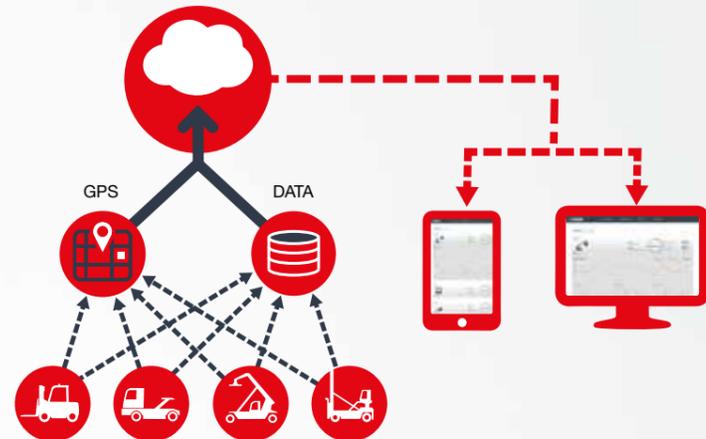


Machine details:
The Kalmar Super Gloria is counterweighted so it can work four wide and four deep with barges, handling loads up to 40 tons in the third row and 27 tons in the fourth.

Optimising your equipment.

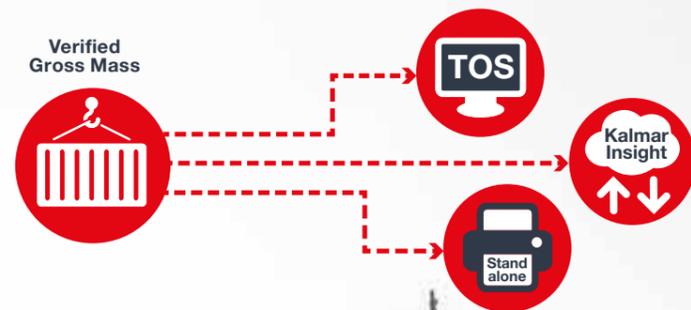
Kalmar Insight.

Kalmar Insight gives you an easy to use overview of your operations by aggregating data from multiple sources, so you can take instant actions on relevant information, that will help improve the efficiency of your every move. Enabling you to more effectively manage your industrial handling operations, decrease downtime and improve safety at your site.



Kalmar Load Measurement System.

The Kalmar Load Measurement System, which is SOLAS compliant, automatically weights and records the load your machine is handling. This information can be printed out in the operator's cabin or sent digitally to an external reporting system like Kalmar Insight. This will allow you to review and monitor individual loads, overloading and load distribution.



Kalmar Care.

Making sure your business never stops.

We offer you four different types of service and maintenance contracts, for any brand of equipment. Each is designed to help you improve your operational efficiency, drive productivity and secure financial predictability. The different contract types include a set of standardised service modules that can be tailored to meet your business needs. Opposite is an overview of the four contracts.

The four flexible types of service contracts.

Kalmar Support Care

We support your maintenance processes on demand.

- Availability of competent people with the right tools and parts
- Provides additional skills to existing maintenance organisation.

Kalmar Essential Care

We perform your agreed maintenance tasks proactively.

- Availability of competent people with the right tools and parts
- Higher degree of financial predictability
- Reduced operational risk to customer
- Improved availability of machines.

Kalmar Complete Care

We meet your complete maintenance requirements.

- Predictive maintenance planning
- Low operational risk to customer
- Reduced equipment downtime
- Reduced total cost of operation
- Increased operational predictability.

Kalmar Optimal Care

We optimise your business performance.

- Guaranteed availability
- Reduced tied-in capital
- Improved business performance
- Increased peace of mind.

When the right part matters.

When something needs to be replaced you need a spare part that meets your exact needs – urgently. Kalmar offers a rapid delivery service for over 50,000 premium-quality genuine parts to anywhere in the world, with installation support if needed.

You may also want to consider outsourcing all or part of your spare parts management and inventory control, with Kalmar Parts Care. Kalmar Parts Care makes sure that critical spare parts are always on hand so your equipment downtime is kept at a minimum. Each Kalmar Parts Care plan is based on your operational needs, talk to us today and see how we can lift your parts availability, while reducing your inventory costs.

Kalmar Training Academy.

To get the most out of your new industrial reachstacker our training academy offers a range of courses for both your technicians and operators. Operators will be shown how you need to drive the machine to help optimise its performance and what needs to be checked daily before operation.

Technicians will be given the knowledge they need to be able to keep your new equipment in top condition. Courses are a mix of theory and hands on experience and can be held at Kalmar or at your site.

Capacities.

TOOL CARRIER	Wheelbase	Tyre size	Lift height	Capacity	Capacity w/support jacks	Capacity	Capacity w/support jacks
	(mm / in)	(in)	(m / ft)	(tons @ LC 2-4-6-8 m)	(tons @ LC 2-4-6-8 m)	(klbs @ LC 2-4-6-8 m)	(klbs @ LC 2-4-6-8 m)
DRG 540-65A5X	6500 / 256"	18.00x33"	15 / 49'	54-38-25-17	-	119-83-55-37	-
DRG 540-65A5XS	6500 / 256"	18.00x33"	15 / 49'	54-38-25-17	54-44-33-23	119-83-55-37	119-92-75-50
DRG 650-92A5HCX	9250 / 364"	21.00x35"	16 / 52,5'	65-65-47-34-26	-	143-143-103-75-57	-
DRG 650-92A5HCXS	9250 / 364"	21.00x35"	16 / 52,5'	65-65-47-34-26	65-65-60-45-34	143-143-103-75-57	143-143-132-99-75

A5 = outreach stroke 7,0 m (23')
A5 HC = outreach stroke 8,5 m (28')

LIFTING HOOKS	Wheel-base	Tyre size	Lift height	Capacity	Capacity w/support jacks	Capacity	Capacity w/support jacks
	(mm / in)	(in)	(m / ft)	(tons @ LC 1, 5-2-4-6-8 m)	(tons @ LC 1, 5-2-4-6-8 m)	(klbs @ LC 1, 5-2-4-6-8 m)	(klbs @ LC 1, 5-2-4-6-8 m)
DRG 570-65Z	6500 / 256"	18.00x25"	15,2 / 50'	57-54-31-19-14	-	125-119-68-42-31	-
DRG 600-65ZX	6500 / 256"	18.00x33"	15,2 / 50'	60-55-38-25-18	-	132-121-83-55-40	-
DRG 600-65ZXS	6500 / 256"	18.00x33"	15,2 / 50'	60-55-38-25-18	60-60-45-34-24	132-121-83-55-40	132-132-99-60-88
DRG 700-75ZX ⁽¹⁾	7500 / 295"	18.00x33"	15,2 / 50'	70-60-45-30-22	-	154-132-97-66-48	-
DRG 700-75ZXS ⁽¹⁾	7500 / 295"	18.00x33"	15,2 / 50'	70-60-45-30-22	70-60-50-39-28	154-132-99-66-46	154-132-110-86-61
DRG 1000-92ZX	9250 / 364"	24/21.00x35"	15,2 / 50'	100-90-65-45-34	-	220-200-187-99-37	-
DRG 1300-92ZX ⁽²⁾	9250 / 364"	24.00x35"	15,2 / 50'	130-120-85-58-43	-	286-275-253-127-95	-

1) 70 ton at 10 m lifting height
2) 130 ton at 10 m lifting height

TILTING SPREADER	Wheel-base	Tyre size	Lift height	Capacity	
	(mm / in)	(in)	(m / ft)	(tons @ 1-2-3 row)	(klbs @ 1-2-3 row)
DRG450-60S5	6000 / 236"	18.00x25"	13,7 / 45'	45-28-13 (lengthways tilt) 45-26-12 (sideways tilt)	99-62-29 (lengthways tilt) 99-57-26 (sideways tilt)
DRG450-65S5	6500 / 256"	18.00x25"	13,7 / 45'	45-31-15 (lengthways tilt) 45-29-13 (sideways tilt)	99-68-33 (lengthways tilt) 99-64-29 (sideways tilt)
DRG450-65S5X	6500 / 256"	18.00x33"	13,7 / 45'	45-37-20 (lengthways tilt) 45-35-18 (sideways tilt)	99-82-44 (lengthways tilt) 99-77-40 (sideways tilt)

Max. 55 degree tilt, max. 20' container for lengthways tilting and max. 32 tons capacity when tilting.

Tool carrier.

- Lift capacity from 50 up to 65 tonnes
- Load center 0-12m and lifting height up to 16m
- Tool carrier with mechanical pile slope (MPS), sideshift, rotation, 4 twistlocks and 4 lift eyes.

Attachments for tool carrier:

- Steel slab grippers (various models).
- Magnets, single or multiple, for slabs, plates, bars and billets.
- Pipe lift units, single or multiple
- Lift beams, lift frames & lift hooks
- Others special combinations.



Tool carrier	
Lift Capacity	65 tons (143 klbs)
Sideshift	± 450 mm (± 17,7")
Mechanical pile slope	± 5 deg
Rotation	-105/+195 deg
Rotation motor	Double (2x)
Rotation brakes	Double (2x)
4 Twistlocks	4 x 16,25 tons (4 x 35,8 klbs)
4 Lift Eyes	4 x 16,25 tons (4 x 35,8 klbs)
Twistlocks CC	2500 x 760 mm (98,4" x 29,9")

Lifting hooks.

- Lift capacity from 57 to 130 tonnes
- Load center 0-12 m and lifting height up to 16 m
- Dual lifting hook with/without power for driven rotation (360 degrees)
- 4 fixed lift eyes
- Free pivot - left and right
- Free pivot - front and rear.

Attachments for lifting hook:

- Slings, chains or bars
- Lift beams, frames or jibs
- Special units
- Other combinations.



Lifting hook (dual)	
Lift Capacity	57 - 130 tonnes
Rotation	360 deg (endless)
4 Lift Eyes	Max load divided by 4
Pivot, lengthwise	Front and rear
Pivot, sideways	Left and right

Standard dual lift hook/optional single lift hook.

CONTACT US

Contact us to discuss how we can tailor our reachstackers to meet your specific material handling needs. Either contact your local Kalmar Sales Support Team or send us your requirements to industrial@kalmarglobal.com

Information provided is correct at time of publication. We reserve the right to update and change this information at any time.



KALMAR

Making your every move count

Published by Kalmar, part of Cargotec. Copyright © Cargotec 2018. All rights reserved. No part of this publication may be copied or reproduced without permission of the copyright owner. The content of this document is provided "as is", without warranties of any kind with regards to its accuracy or reliability and excluding all implied warranties. We reserve the rights to make changes to any of the items described in this document without prior notice. The content of each service and availability of particular services may vary.

www.kalmarglobal.com

Published by Kalmar, part of Cargotec. Copyright Cargotec. All rights reserved.