

Reach stackers for your world



What's your world like?

The circumstances of each lift truck driver can be very different: local environment, climate challenges, load capacities, height specifications and individual needs are just a few examples of how they can vary. By listening to you and observing your world, we can design and deliver a lift truck that is ideal for your requirements.

Built for your world

We understand that the world that matters most to you is your world, not ours. Here at Konecranes Lift Trucks, we listen to, learn from, design for, deliver to and support you to help you succeed in the unique conditions at your operations. Our lift trucks are your lift trucks. They are built for your world.

Taking on the world

Lift trucks carry the coffee we drink, the paper we write on, and the bricks that build our homes. Almost everything around us, from cocoa to car parts, has been transported by lift trucks at some time. They play an essential role in the logistics of international trade.

Since our humble beginnings in Sweden over 60 years ago, Konecranes Lift Trucks has risen to become a highly valued part of that global trade network, renowned for our quality design, advanced technology and innovative solutions that have transformed the heavy lifting business. And our lift trucks only exist because of our people, who personify our company with their expertise and tireless dedication.



"The toughest challenge in my job is to ensure a precise and safe handling of containers."

Arnold Bindemann
DCP Bremen, Germany

Reach stackers for your specific needs

The Konecranes name is world famous for reliable, lasting and technologically advanced equipment for materials handling.

Whether you need one or one hundred, a standardized fleet or machines specially tailored for your unique challenges, the Konecranes reach stackers portfolio is as varied as our customers' requirements.

Branding your trucks

Your reach stackers are special, and not just because they come from Konecranes. They play a key role in your operations on your shop floor, in your storage yard, or on your quay. So some customers like to personalize their trucks with company colors, logos or other identifying marks, to show how important their Konecranes reach stackers are, while also making them truly unique.

Major industries that we serve

- Port and terminal
- Intermodal and barge handling
- Metals production
- General manufacturing and bulk
- Food
- Paper and wood
- Mining
- Defense
- Energy



Succeed in the unique world where you work

We listen, learn and develop our reach stackers based on our customers' experiences. Get to know some of our customers and the different worlds they are working in.



Safety never ends

Material handling is dangerous work, so safety is the number one priority every single day. Because no two sites are exactly the same, we offer a wide variety of safety options to help you to maximize the safety of the people working in your world.



Top tips for improving safety

Every Konecranes reach stacker includes plenty of built-in safety features. Here are just a few of the ways you can improve the safety of your reach stackers even further.

Work Zone

Use geofencing to remotely control the driving speed, height restrictions and working area of your reach stackers. This is particularly useful in busy, high-traffic environments.

Electronic scales

Konecranes reach stackers use a static weighing system to weigh their loads. All operators can see the weight, and an alert warns them of overload.

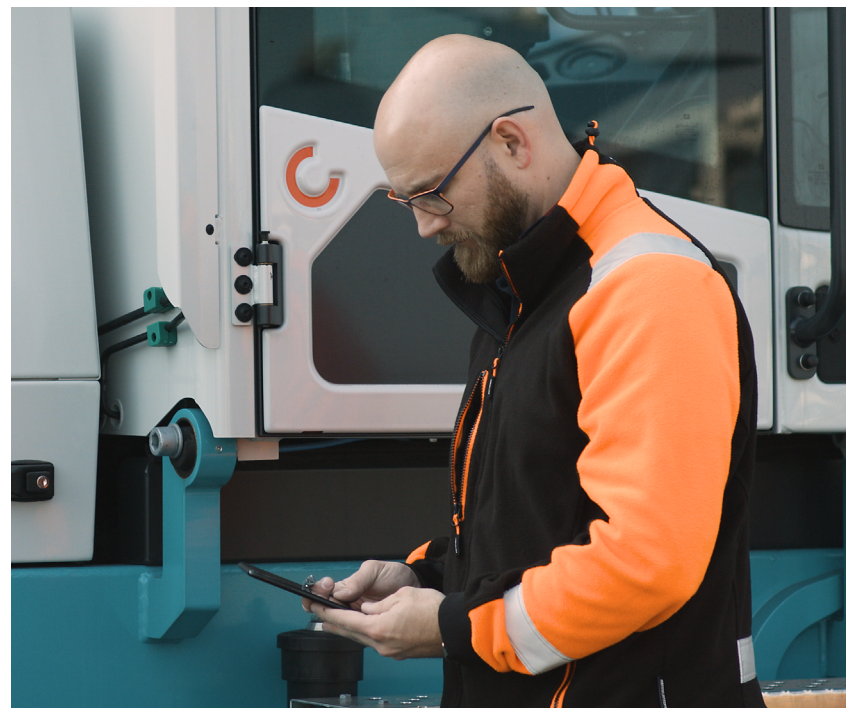
CheckApp

This mobile truck inspection tool guides drivers through truck inspections. Quicker and easier inspections mean safer trucks, and immediate results help you to plan ahead.

Start with prevention. Your technicians and drivers must be properly trained on Konecranes reach stackers. Then built-in safety features combined with preventive maintenance, CheckApp mobile inspections and taking advantage of Lifetime Advantage upgrades provide the safest reach stackers you can imagine.

Konecranes uses secure Internet to ensure the safety of your usage data as it travels from the trucks to your KONECRANES.com, the customer portal where you can analyze and plan your operations in detail.

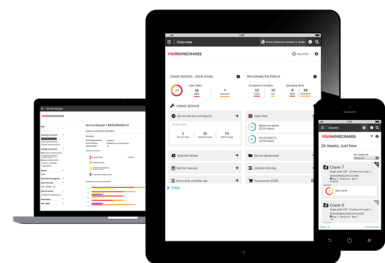
Standards matter. Konecranes keeps up with regulatory changes to ensure that your reach stackers comply with your local safety requirements, international safety standards and general good practice for the safe use of lifting equipment.



Reach stackers can also be fitted with the SOLAS-compliant Konecranes Static Weighing System, which measures the verified gross mass (VGM) of a lifted container with 1 percent full-scale accuracy in less than 5 seconds. This system also eliminates the need for a separate scale, speeding up operations.

Smart Connected Lift Trucks

We connect data, machines and people to provide you with the insights that allow you to optimize your reach stacker fleet.



yourKONECRANES

All the data from your Konecranes reach stacker travels securely to our customer portal yourKONECRANES, a userfriendly single point of access for comprehensive information on your fleet and its performance. Customized settings simplify maintenance and asset management.

“Through yourKONECRANES.com, we can follow the performance of each truck, including productivity, operational efficiency and fuel consumption. We can also predict parts needed for future preventive maintenance and repair. This feature will optimize both time and resources.” says Mr. Yu Debin, General Manager of Tianjin Sinotrans Container Development.

To assist you in important operational decisions, we've made our reach stackers smart and connected. Keep up to date with your equipment using analytics about the current condition by sending analytical data to the online customer portal yourKONECRANES. There you can adjust equipment settings, plan maintenance, and optimize your operations for your world.

Konecranes TRUCONNECT telematics and the yourKONECRANES customer portal offer near real-time monitoring and diagnostics. Online trucks allow you to follow truck movements, check oil, monitor tire pressure, improve energy consumption and much more that will boost the safety and efficiency of your operation.

In 2012, we sold our first Smart Connected Lift Truck. Since 2022, TRUCONNECT® has been standard on all new Konecranes lift trucks.



Explore more
www.kclifttrucks.com/digital-solutions

Get your Lifetime Advantage

After you purchase a Konecranes reach stacker, we offer you far more than just after-sales service. You can get resources for truck maintenance, fleet management, investment growth and safety enhancements, all backed up by a dependable support network.

Because this is available to you for the entire life cycle of your Konecranes reach stacker, we call it the Konecranes Lifetime Advantage. It's a better experience.



A smarter maintenance experience

Our Smart Connected Lift Truck resources give you a clear view of your Konecranes machine. See its current status along with its overall performance. Then access simple-to-use tools such as CheckApp and Maintenance Planner to put your insights into action. A clear view leads to smart maintenance and a lifetime of reliable performance.



A wiser management experience

Konecranes digital tools help you to better assess the efficiency, cost effectiveness and productivity of your reach stacker fleet. Understand how your machines are being used, the driving patterns of your team, and the overall sustainability of your operation. Accurate, up-to-date knowledge means smarter decisions and a lifetime of fleet efficiency.



A cleverer investment experience

Your reach stacker fleet is a significant investment. We help you to preserve its value through our upgrade packages, retrofits and sustainability improvements. You get a feeling of “money well spent” with a reliable fleet that gives you a solid return on your investment. The longer you stay with us, the better your investment will look.



A safer driving experience

Safety is embedded in everything we do. It's the first thing on our minds when designing our reach stackers, when thinking about their maintenance, and when considering your drivers' day-to-day machine handling experience. A safer reach stacker is a better reach stacker. Lifetime Advantage prioritizes safety in and around Konecranes reach stackers.



A dependable team with experience

With the deep knowledge that comes from many decades of designing, manufacturing and selling reach stackers, we offer you outstanding technology and expertise through carefully chosen distributors who are fully committed to the success of our customers. For the entire life cycle of your equipment, we will always be at your side.

Genuine Konecranes parts and promotions

Genuine Konecranes parts are the best protection for your investment increasing the reliability and performance of your Konecranes reach stackers.

Explore more
kclifttrucks.com/lifetime-advantage



Eco-efficiency by default

Proper maintenance using genuine Konecranes parts and services extends the service life of your lift trucks with lower fuel consumption, less wear and tear and more efficient use of resources.

Uncompromised performance

Konecranes Ecolifting future-proofs your lift truck fleet by significantly decreasing your fuel consumption, on-site emissions and overall carbon footprint without reducing performance. Not only do our factories use renewable energy, but our trucks are available with a range of technical innovations and energy options so that you can choose the solution that best suits your world.

KONECRANES
ecolifting



Less CO₂ per move

The Path to Ecolifting offers solutions that decrease your carbon footprint without reducing performance.

- 1. Change from conventional diesel to biofuel.
- 2. Make your diesel drives as eco-efficient as possible.
- 3. Step forward to fully electric equipment.

Proper maintenance using genuine Konecranes parts and services extends the service life of your lift trucks with lower fuel consumption, less wear and tear and more efficient use of resources.

Konecranes Ecolifting

Every Konecranes reach stacker is designed with environmental sustainability in mind. Our knowledge and innovative technologies help to make lifting and material flows more productive while minimizing waste, energy and time throughout the value chain.

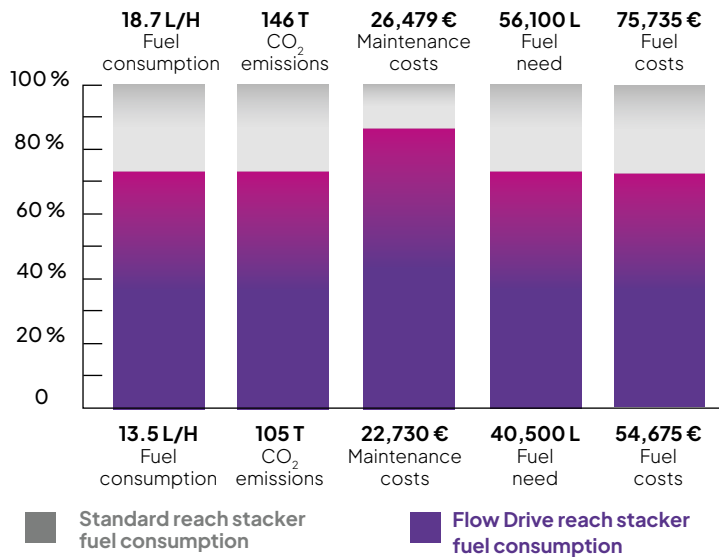
Flow Drive

Konecranes Flow Drive reduces your fuel consumption by up to 25% with increased active operating time and always full performance. The innovative hydromechanical variable transmission sits in a new, unique engine compartment for a smoother and more dynamic driveline. Specialized driver training will help you and your team get the most out of your everyday operations.

HVO100

The latest generation of Konecranes reach stackers can use HVO100, a 100% renewable and fossil-free chemical copy of diesel fuel made mostly of vegetable oil. With almost the same characteristics as regular diesel, it reduces carbon emissions by up to 90%. This is a fast and economical transition that doesn't require changes to your local infrastructure.

Lower consumptions – lower operational costs



Konecranes Flow Drive lowers emissions at German inland river terminal



Efficient and sustainable operations

Stadtwerke Andernach GmbH operates local municipal utilities, including the Port of Andernach, an inland river facility that has grown into a major transshipment hub in central Germany. Located in the west on the Middle Rhine, the port offers expert container handling for connections to a range of destinations both inside and outside Germany.

Trimodal (ship, train and truck) services provided by Andernach include picking, distribution, unloading and storage. To maintain the tight scheduling required by modern logistics, they need reliable equipment that can deliver speed and precision with low operating costs, maximum uptime and minimal emissions.

When looking for their next investment in container handling equipment, Andernach held a Europe-wide tender to find the best machines available on the market. They chose three **Konecranes SMV 4632 TC5 reach stackers** equipped with **Flow Drive**, an innovative solution using a hydromechanical variable transmission (HVT) to limit power at low speed, reducing wear and carbon emissions while cutting fuel consumption by **up to 25%**. These reach stackers are robust machines with a load capacity of 46 tons that can stack up to five full containers high. They utilize central greasing to minimize maintenance and downtime, and a range of safety features such as a reverse camera, auto engine shutdown and tire pressure



Customer Story :

Name: Wojtek Kozbial

Industry: Ports & Terminal

Country: Germany

monitoring. **TRUCONNECT®** collects telematics data in real time to help optimize fuel consumption, tailpipe emissions and usage across the entire fleet.

New technology opens environmental benefits

Konecranes Flow Drive is part of Ecolifting, a series of innovative Konecranes solutions specially designed to decrease fuel consumption and on-site emissions while simultaneously improving performance. Andernach's Konecranes Flow Drive lift trucks send their operational data to the online customer portal **yourKONECRANES** in near real time, where they can monitor efficiency through Key Performance Indicators (KPIs) such as operating hours, fuel consumption and asset utilization. This makes it easier to deploy their trucks to the busiest locations in the port and plan a timely maintenance schedule. The Flow Drive reach stackers have clearly shown lower emissions, less downtime and reduced fuel consumption. Modern technology has simplified fleet management and operational sustainability.

Today they operate 3 reach stackers with Flow Drive from Konecranes," says **Ralf Gowin, Regional Sales Manager, Lift Trucks, Konecranes**. "In cooperation with trusted local distributor Jungbluth, we're pleased to be able to offer the technology and expertise that can help to rapidly advance their material handling goals."

"We're working hard to make our services more sustainable, and the Konecranes Flow Drive reach stackers have become a key part of this goal at the port. With greater intervals between refueling, we've increased our productivity while significantly cutting our fuel costs. The telematics data shows that our fuel consumption has dropped by about 25%, just as expected,"

-Wojtek Kozbial, Rhine Port Project Manager, Stadtwerke Andernach.

Driver-friendliness

For the driver spending countless hours in a lift truck, the most important thing is probably not the return on investment or the overall performance of the fleet. Drivers want to feel secure and comfortable, and have the opportunity to do their jobs with precision and effectiveness.

Meeting the needs of drivers



The OPTIMA cabin is designed to enhance comfort, safety, and productivity for Konecranes lift truck operators. It is the market leader in terms of visibility, featuring large, unobstructed windows that provide remarkable sightlines in all directions. The cabin also includes an integrated touch screen for full monitoring of vital components and ergonomic instrumentation for easy access to controls. The driving experience is further improved with adjustable seating, climate control, and low noise levels. Its robust steel structure ensures durability, while customizable options like lift controls and cabin positioning cater to various operational needs.

02 OUTSTANDING ERGONOMICS

With driver-focused design, the OPTIMA cabin is one of the most spacious on the market. Everything is within easy reach.

04 ELECTRONIC MACHINE CONTROL, EMC MASTER

You can monitor vital components and functions on a 7" touch screen. CanBus technology increases engine and transmission reliability as well as hydraulic and joystick control.

03 CURVED GLASS GIVES REMARKABLE VISIBILITY

Drivers have an exceptional range of vision through very large, lowered windows with no corner posts, a thin but very strong roof crossmember, and curved panels.

05 SMART LOAD-SENSING HYDRAULICS

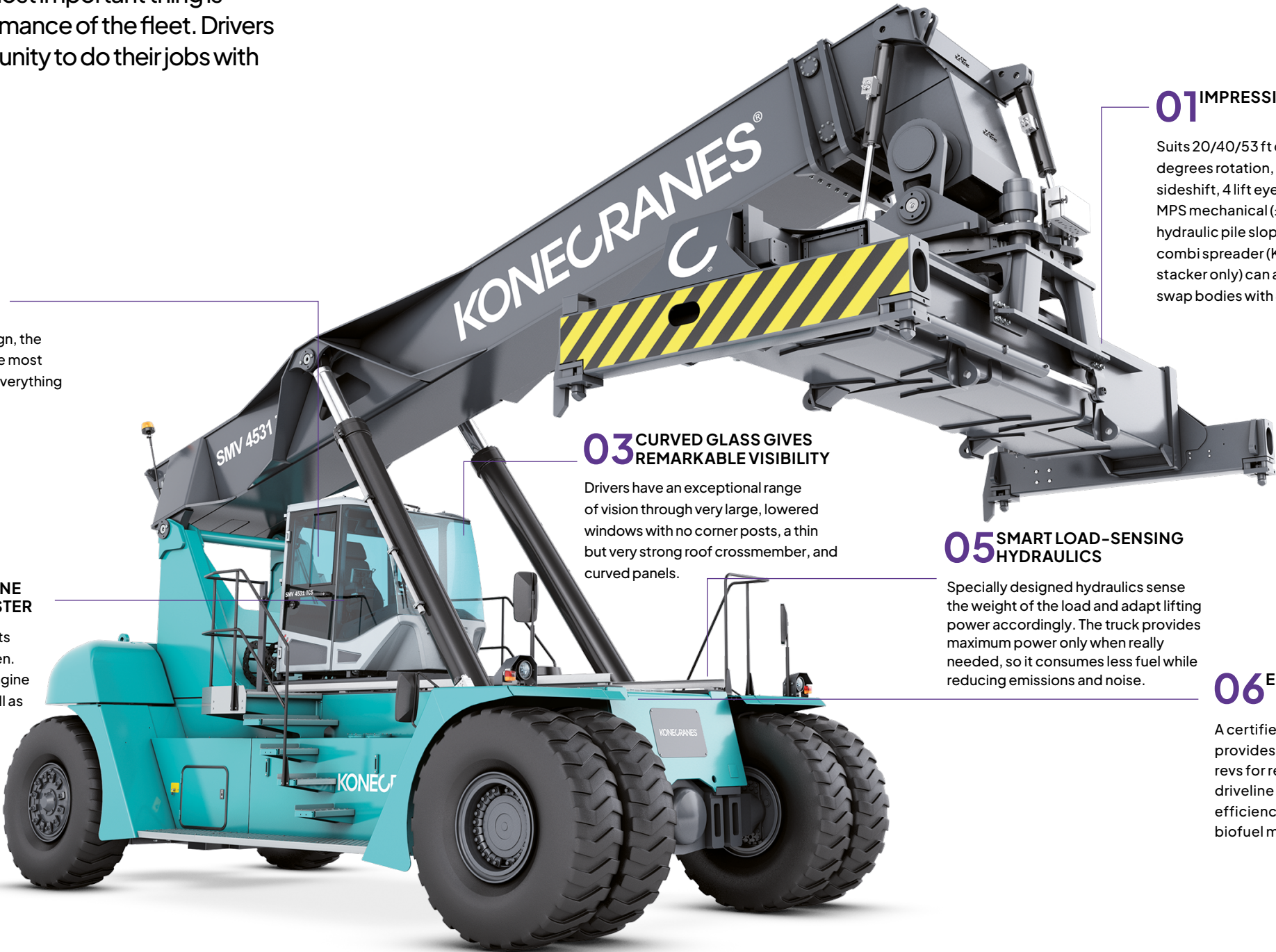
Specially designed hydraulics sense the weight of the load and adapt lifting power accordingly. The truck provides maximum power only when really needed, so it consumes less fuel while reducing emissions and noise.

06 ECO-EFFICIENT ENGINE

A certified low-emission engine provides extra-high torque at low revs for reduced fuel consumption, driveline adjustments improve efficiency still further and HVO100 biofuel minimizes emissions.

01 IMPRESSIVE SPREADER

Suits 20/40/53 ft containers, 300 degrees rotation, 1600 mm total sideshift, 4 lift eyes for sling cargo. MPS mechanical (± 2 deg) or HPS hydraulic pile slope (± 6 deg). The combi spreader (Konecranes reach stacker only) can also lift trailers and swap bodies with 4 folding lift legs.

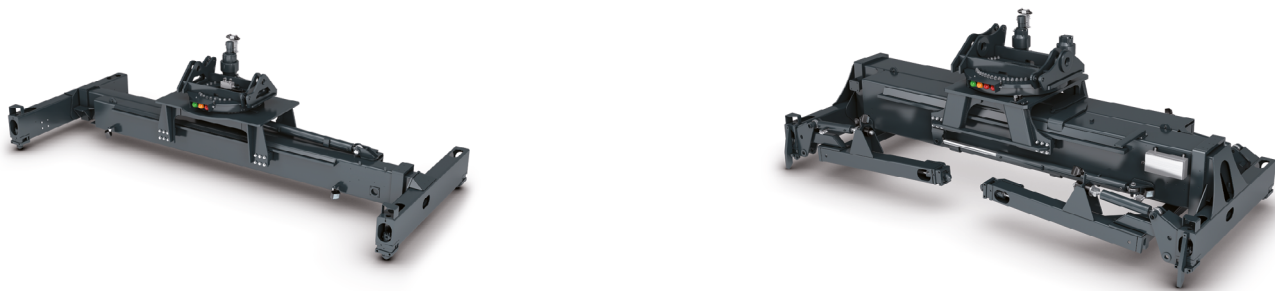


People are your most valuable asset. Driver-friendly trucks facilitate the well-being and work of the drivers. Cabins that are well-designed for long shifts and demanding conditions lead to relaxed and more effective drivers. Konecranes cabins put your drivers in a position to succeed – to be their best at what they do.

We have the attachment

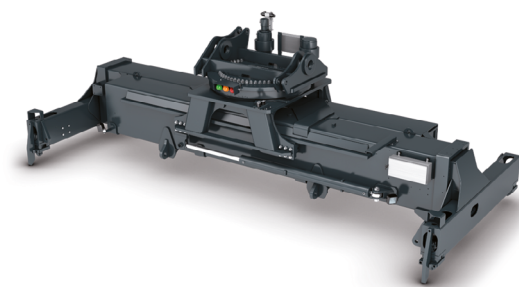
What do you need to lift? You'll find your lifting solution in our complete range of attachments for reach stackers.

Container handling



Reach stacker spreader for empty containers

Telescopic spreader for empty ISO containers up to 10 tons. Strong single beam spreader design, floating twistlock (± 10 mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), large sideshift (± 800 mm) and full rotation ($-105/+195$ deg). Spreader side tilt ± 2 deg (MPS = mechanical pile slope). Weight = appr. 4.8 tons.



Reach stacker spreader

Telescopic spreader for laden ISO containers up to 46 tons. Strong parallel double beam spreader design, floating twistlock (± 10 mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), big sideshift (± 800 mm) and full rotation ($-105/+195$ deg). Spreader side tilt with stroke of ± 2 deg (MPS = mechanical pile slope) and 4 lift eyes included for slings (46 ton). ELME 817–HPS with a stroke of ± 6 deg (HPS = hydraulic pile slope with 4 cylinders). Weight of spreader is approx 7,7 tons without extra equipment.

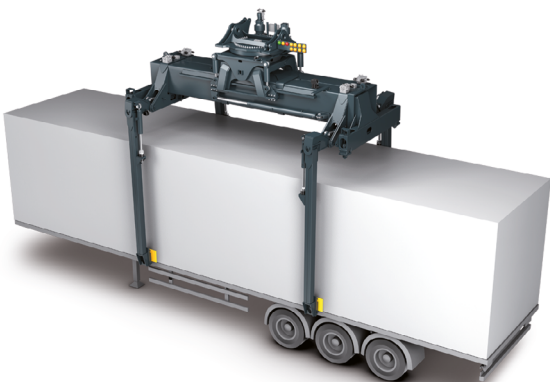
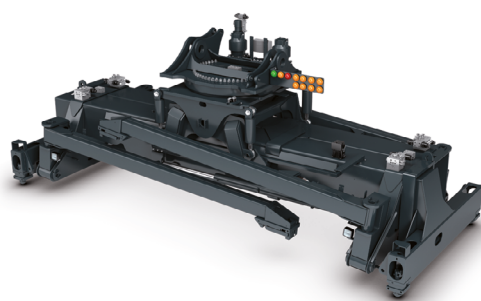
Reach stacker spreader for overheight cargo and flat racks

With overheight folding legs for open-top containers and flat racks (extra high cargo). The foldable extension legs are 1600 or 2100 mm long and activated by 4 cylinders. Weight appr. 10.3–11.3 tons.

Legs shown in unfolded position with an open-top container with high cargo. Flat racks often have overheight cargo that must be lifted like this.



Intermodal handling

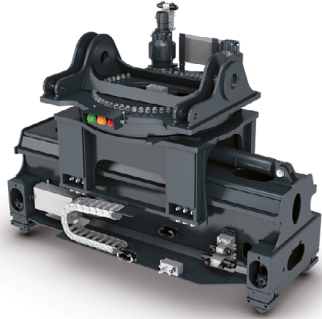


Reach stacker spreader for intermodal handling

Telescopic intermodal spreader (combi/piggyback) for laden ISO containers, swap bodies, and trailer handling with capacity up to 45 tonnes (in twistlocks / lift legs). Extension 20/B7/30/40 ft is included. The lift legs “fold in” and “fold out” in a sequence with sensors in each lift leg / lift shoe. Leg length = 3600 mm and leg opening = 1700–3200 mm. The package of spreader frame and legs is of strong heavy-duty design. All container functions as for ELME 817–MPS/OFL. Weight appr. 13.6 tons.

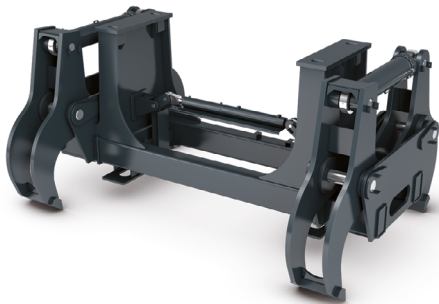
Legs shown in unfolded position with a trailer being lifted.

Industrial handling



Industrial tool carrier system

For connecting tools (connection points = 2500 x 760 mm). Strong single beam spreader design, floating twistlock (± 10 mm) with hydraulic operation and mechanical safety locking. Large sideshift (TC-50 = ± 500 mm / TC-65 = ± 300 mm) with 1 hydraulic cylinder and full rotation ($-105/+195$ deg) with 1 hydraulic motor (turning) and 2 brakes (holding). Spreader side tilt ± 2 deg (MPS) or ± 6 deg (HPS). The spreader frame and end beams are of strong heavy-duty design. Weight TC-50–MPS/TC-65–MPS = appr. 5.0–7.5 tons.



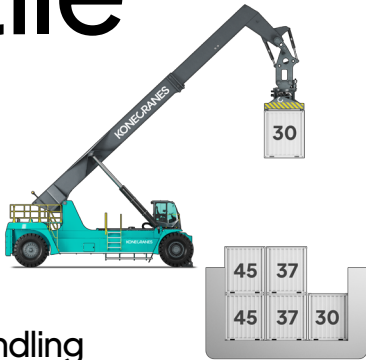
Hydraulic steel slab grab unit

Hydraulic steel slab grab unit with pairs of hydraulic lifting jaws. The grab can lift 1–4 slabs if the height adjustment function is included. Various slab width combinations are available, width min–max 700–1800/900–2000/1500–2600 mm. Capacities up to 50 tons (in grab unit). Grab weight = appr. 9.0–12.0 tons.



Reach stackers for efficient and versatile cargo handling

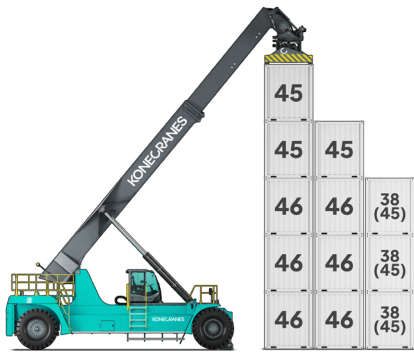
When you buy a Konecranes reach stacker, you are investing in time-tested technology with innovative, eco-efficient features to enhance productivity and cut lifecycle costs. We offer a range of solutions and technologies to reduce engine, drive train and tire wear to extend the functional life of your reach stacker and decrease your running expenses. When your lifting needs change, a well-maintained reach stacker also has high resale value.



For barge handling
46 TONS

MODEL NAME	CAPACITY	WHEELBASE
SMV 4644 TC4 BH	46–38–24 tons (yard)	7500 mm
	46–31–19 tons (barge)	7500 mm
SMV 4644 TCX4 BH**	46–42–32 tons (yard)	7500 mm
	46–38–27 tons (barge)	7500 mm
SMV 4646 TC3 BH	46–46–36 tons (yard)	9000 mm
	46–38–31 tons (barge)	9000 mm
SMV 4646 TCX4 BH**	46–46–43–34 tons (yard)	9000 mm
	46–45–37–28 tons (barge)	9000 mm

BH** = Capacity with support jacks engaged

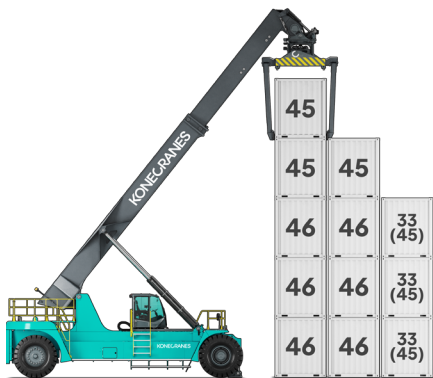


For container handling
10 TO 46 TONS

MODEL NAME	CAPACITY	WHEELBASE
SMV 108 TC6*	10–8–5 tons	5000 mm
SMV 128 TC6*	12–8–4.5 tons	5000 mm
SMV 2216 TC3	22–16–6 tons	5500 mm
SMV 2518 TC3	25–18–8 tons	5500 mm
SMV 4228TC5 (TC6)*	42–28–14 tons	6400 mm
SMV 4628TC5 (TC6)*	46–28–14 tons	6400 mm
SMV 4632TC5 (TC6*)	46–32–17 tons	6400 mm
SMV 4636TC5 (TC6)*	46–36–20 tons	6400 mm
SMV 4636TCX5 (TCX6)**	46–38–25 tons	6400 mm
SMV 4638TC5 (TC6)	46–38–20 tons	6400 mm
SMV 4638TCX5 (TCX6)**	46–42–28 tons	6400 mm
SMV 4643TC5	46–43–25 tons	7250 mm
SMV 4643TCX5**	46–45–31 tons	7250 mm
SMV 4644TC5	46–44–26 tons	7500 mm
SMV 4644TCX5**	46–45–35 tons	7500 mm
SMV 4646TC5	46–46–38 tons	8000 mm
SMV 4646TCX5**	46–46–45 tons	8000 mm

*TC5 5 high, TC6 = 6 high

**Support jacks down



For intermodal handling
42 TO 46 TONS

MODEL NAME	CAPACITY	WHEELBASE
SMV 4224 CC5	42–24–10 tons	6400 mm
SMV 4628 CC5	46–28–14 tons	6400 mm
SMV 4632 CC5	46–32–17 tons	6400 mm
SMV 4632 CCX5***	46–34–21 tons	6400 mm
SMV 4634 CC5	46–34–17 tons	6400 mm
SMV 4634 CCX5***	46–38–25 tons	6400 mm
SMV 4638 CC5	46–38–22 tons	7250 mm
SMV 4638 CCX5	46–41–29 tons	7250 mm
SMV 4639 CCX4	46–41–34,5 tons	7500 mm
SMV 4639 CC5	46–39–24 tons	7500 mm
SMV 4639 CCX5***	46–41–33 tons	7500 mm
SMV 4646 CC5	46–46–34 tons	8000 mm
SMV 4646 CCX5***	46–46–45 tons	8000 mm

***CCX Capacity with support jacks engaged




For industrial handling
35 TO 80 TONS

MODEL NAME	CAPACITY	WHEELBASE
SMV 4228	35–50 tons	6400 mm
SMV 4628	35–50 tons	6400 mm
SMV 4632	35–50 tons	6400 mm
SMV 4636	35–50 tons	6400 mm
SMV 4643	40–60 tons	7250 mm
SMV 4644	40–60 tons	7500 mm
SMV 4646	40–80 tons	8000 mm

Other models upon request



Konecranes is a global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,500 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2024, Group sales totalled EUR 4.2 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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KONECRANES Moves what matters.