

10-80 TONS

Reach Stackers for Your World



The environments, climate challenges, drivers' needs, lifting loads and heights of every lift truck driver are always different and special. By listening and observing carefully to learn about your world, it's possible to design and deliver the most ideal lift truck for your operation.

YOUR WORLD

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

Arnold Bindemann
DCP Bremen, Germany



Built for your world

Here's a secret we know and understand: we all like to talk about ourselves, but the world that matters most to you is your world, not ours. We at Konecranes Lift Trucks listen to, learn from, design for, deliver to and support you to help you succeed in the unique world where you work.

Continuous improvement

Our mission is to build and customize the hardest-working, longest-lasting, heavy-duty lift trucks for our customers' worlds. This has been our way ever since we made our very first lift truck in 1959 for a very special customer, and our customers still provide the most important input for the continuous improvement of our lift trucks.

Quality in every aspect

Excellence is a cornerstone of the Konecranes product design process and a hallmark of the Konecranes brand.

Excellence shows in our heavy-duty durability, modern cabin and all the little things that makes up the efficient, high-quality lift trucks that we proudly produce every day.

Every lift truck goes through rigorous tests before delivery to check that your equipment always meets the highest possible product standards.



First in safety

When working with material handling and heavy loads, you want to minimize safety risks to help maintain the well-being of your employees. You can do this by implementing new and improved preventive safety measures.

YOUR WORLD

Innovations like Work Zone geofencing and Konecranes weight verification system are not important because they are cutting-edge, but because they make your work environment safer. They protect your drivers and ground staff.

Safety-first culture

We think that the pursuit of safety never stops. It's not about built-in safety features alone – it's about preventive maintenance, training and building a safety-first working culture. Konecranes is often the first to introduce new technology that improves safety.

Safety is in everything we do, all the way from R&D to all the customization possibilities and technological innovations we offer. Depending on your particular operations, we can meet your specific needs with a wide variety of preventive solutions to maximize the safety of your personnel.

Konecranes digital services has received ISO/IEC 27001:2013 certification for information security management. Secure software development practices ensure security risks are considered in each phase of the software development lifecycle. This helps developers to build highly secure applications and ensure that risks and possible vulnerabilities are captured in the development, and not in the production.

Technology for safe operations

Our overload detection system helps prevent accidents by sending data on the use of each of your reach stackers for checking and analysis.

At Konecranes, the TRUCONNECT® Remote Monitoring service receives that data and can send alert notifications of overloads and overrides to designated personnel at your own facility.

Container weighing detects dangerous overweight conditions with accurate weight measurement to meet all local requirements for maritime and port safety.

Work Zone for safer operations

Developed by Konecranes, Work Zone is a suite of location-based services designed to improve the safety of lift truck operations, especially in busy, high-traffic environments.

Work Zone uses GPS technology to create geofencing – invisible fences around real-world areas. You can remotely control lift trucks and their height limitations, speed limits and other safety matters inside computer-defined areas – virtual fences. Drivers can see selected alerts on their operating display and you can also send the alerts by SMS or email to chosen recipients.





Customization

Every operation must meet different challenges. Lift trucks need to be able to function anywhere from the blazing deserts of the Sahara to the frozen wastes of the Arctic. With optimal performance and the right combination of features and attachments, Konecranes reach stackers can help you maximize your operational efficiency.

YOUR WORLD

Every industry has its own special requirements. Our reach stackers must be customizable to your particular business, so you don't have to change your operations every time you buy new equipment.

Everything is possible

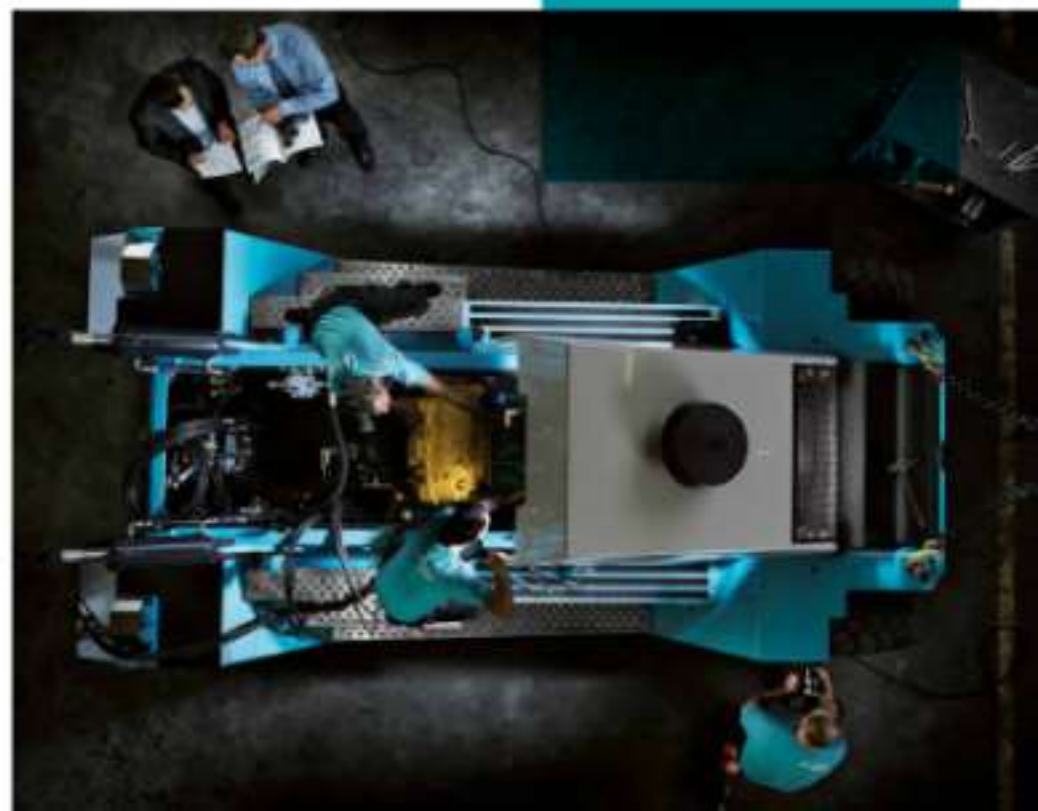
Listening to our customers and meeting their needs has been our way from the very start. Not only do we want to help you to lift loads, but we also want to help lift our customers' businesses. So we listen, learn and develop our products based on customer experience.

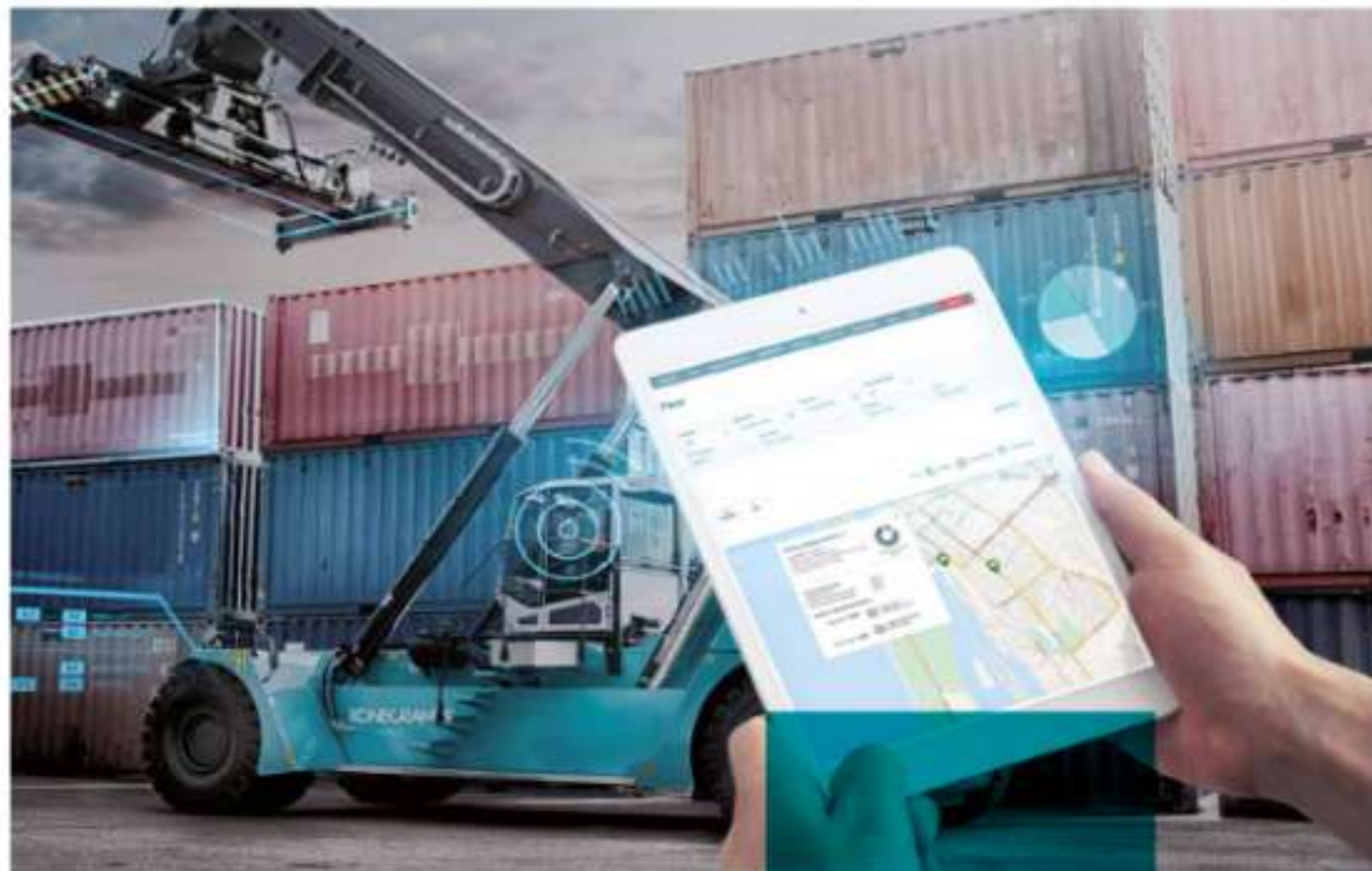
You provide us with the details of your operational needs and goals, and we design a lift truck that takes your requirements into account. With each vehicle you order, we aim to exceed your expectations.

The strength, performance and reliability of every Konecranes lift truck are based on the heart of our technology: a strong box-type chassis, efficient load-sensing hydraulics and intelligent electronic machine control (EMC) that monitors the lift truck's vital components and functions. Our tight organization and a close dialogue between sales and engineering ensure that we can provide for your customization needs in the best way possible.

OUR SOME EXAMPLES CUSTOMIZED REACH STACKER SOLUTIONS

- SHV 4535 TC16, equipped with 45-degree tilting spreader
- SHV 4638 TC5, equipped with magnet for steel handling
- SHV 4646 TC14 BH, world's biggest barge handler





The lifetime advantage

Owning the perfect lift truck is not only about the machine itself. It's about maintaining high performance as the years go by, with services such as quality spare parts, preventive maintenance, support when you need it, or tailored training for in-house mechanics.

YOUR WORLD

"Even though our company is located in the far south of Thailand, we have no issues with technical support such as spare parts, on-site technicians and technical advice."

Konecranes and Sri Trang Logistics work together to ensure the highest uptime for our machines and our satisfaction."

Apichart Parnitchkul
CEO, Sri Trang Logistics,
Thailand

Smart Connected Lift Trucks

Konecranes Smart Connected Lift Trucks is a range of remote service applications that track the condition and usage of your lift trucks in real time, allowing you to use insights from this data to optimize the productivity of your operation. For example, you can better forecast and schedule maintenance, discover and improve weaknesses in safety and efficiency, or enhance driver performance by identifying training needs for more economical and ecological driving.

Listening to your lift truck

Is your maintenance at regular intervals, or do you plan it based on your actual needs? Do you order spare parts after a breakdown, or do you get them before they are needed? Do you know how your lift trucks are doing, or are you still guessing?

Knowledge is power, and when it comes to taking expert care of your lift truck, nothing beats knowing what will happen before it happens. So, what do your Smart Connected Lift Trucks want to tell you today?

Expert support when you need it

We have a unique service concept in the lift truck industry. It provides you with a seamless service experience, starting with the condition of the reach stacker, and producing all needed parts and work orders.

Being a global company, Konecranes is at the center of a huge network of service and distribution partners around the world. Our expert support helps you to maintain extended use cycles and give your equipment a longer lifetime. We also offer several related services, such as upgrades, safety and maintenance kits, e-learning platforms, recommended parts lists and more.



YOUR WORLD

"I can access the Konecranes web portal at any time to check on any machine in all of our branches. It is extremely valuable to have all that information at your fingertips."

Attthapon Mebusaya
Sri Trang Logistics, Thailand





Eco-efficiency

To be able to make choices for a better tomorrow, you must find new ways to reduce costs without compromising performance. With the optimal combination of features and attachments, you can help protect the environment and still maximize your operational efficiency.

YOUR WORLD

Product advances like Konecranes Ecolifting can make a big difference in operating costs without any decrease in performance.



Power Drive

- reduce fuel consumption and emissions by up to 15%
- minimal capital investment and payback in less than a year
- same performance, less fuel consumption



Flow Drive

- reduce fuel consumption and emissions by up to 25%
- enhance your drivers' experience, increase active operation time and improve your overall productivity



Hybrid Drive

- reduce fuel consumption and emissions by up to 40%
- world's first fully electric reach stacker
- higher productivity compared to non-hybrid reach stacker

Konecranes Ecolifting

Developing environmental solutions has been important to us for a very long time. In 2013, we released the world's first hybrid reach stacker, a vehicle that is fast becoming a leader in the next generation of sustainable lift trucks. We give you the opportunity simultaneously save money and help the environment by using less fossil fuels.

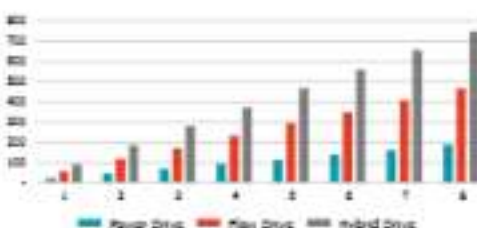
Konecranes Ecolifting is a future-proof concept with new solutions continuously in development. In all of our products, true value lies in the small and intelligent details implemented with cutting-edge technology that make Konecranes Lift Trucks some of the world's most advanced lift trucks. Small things make a huge difference.

Choose your Ecolifting solutions

What's your goal in reducing emissions and fuel consumption? Pick the solution that fits your world to reduce environmental impact and your operational costs.

Indicative Emission Reductions

(in terms of CO₂ accumulated)





Making an impact in Western Germany

Since 2019, Mindener Hafen GmbH (Mindener) has operated a new, modern container terminal in the town of Minden in northwest Germany. Located on the River Weser, Minden is an important junction for inland waterways, with good connections to the Bremen and Hamburg seaports. With just 20 employees, Mindener provides expert container handling services for both shippers and freight forwarders as the volume of cargo coming through the region continues to grow.

CUSTOMER STORY:

NAME:
Mindener Hafen GmbH

INDUSTRY: Container handling

COUNTRY: Germany

"These Konecranes machines have improved our workplace safety while significantly reducing our downtime and operational costs."

Björn Riesner
Terminal Manager, Mindener Hafen GmbH

Moving containers on tight deadlines

Mindener offers trimodal (ship, train and truck) logistics for both ordinary and refrigerated containers (reefers) and customs clearance on-site. Its services include storage, picking, distribution and unloading. Running on tight schedules, containers must be moved with speed and precision, so Mindener needs fast and reliable equipment with minimal downtime.

The new terminal is handling containers with a crane while the old terminal has had 45-ton Konecranes lift trucks from the very beginning. In 2012, their first was an SMV 4531 TBS reach stacker. Just one year later, they followed it with a heavier model, the SMV 4535 TB6, equipped with a boom that was one meter longer than usual, so it could lift containers directly from ships to the yard.

Mindener was so impressed by its quality and productivity, they soon invested in two more Konecranes reach stackers – the new generation SMV 4531 TCS and SMV 4532 TCS, for fast and efficient container handling. They also bought two SMV 25-1200 B forklift trucks with a 10-meter mast and front lift spreaders for handling empty containers up to 25 tons.

The company now has a total of six Konecranes lift trucks – four reach stackers and two forklift trucks. All of the vehicles have an ergonomic cabin with easy-to-use controls, a radio, and air conditioning to cool drivers during summer and keep them warm in winter. They also have automatic greasing and other standard features to minimise maintenance and downtime.

They monitor the new reach stackers remotely using TRUCONNECT because those vehicles are used more than the other lift trucks. This helps them to keep an eye on performance and plan ahead for maintenance. German distributor Neotechnic, from the nearby city of Bielefeld, took care of the sales and now maintains the trucks.

"These Konecranes machines have improved our workplace safety while significantly reducing our downtime and operational costs," says Björn Riesner, Terminal Manager. "Konecranes really listened to us and provided exactly the harbor equipment we need. We plan to replace our older lift trucks with new Konecranes models."

Helping the environment while delivering savings

Following EU guidelines, Germany has strict environmental regulations, and is working hard to improve air quality. So all the Konecranes lift trucks at the Minden terminal fulfil these requirements.

In addition, the SMV 4532 TCS reach stacker is equipped with Flow Drive, a Konecranes innovation that uses a hydromechanical variable transmission (HVT) to limit power at low speed, lowering wear, fuel consumption and emissions on a heavy-duty engine that maintains full performance. With greater intervals between refueling and less maintenance, it can significantly increase productivity.

"Konecranes lift trucks have been a key part of the Minden terminal," says Mr Heinrich Tissen, Sales Manager for Neotechnic. "High-quality products backed up with our technical support and a local Konecranes presence have helped Mindener build an efficient, successful operation in just a few years."

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.

FEATURES FOR DRIVER-FRIENDLY OPERATIONS

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.

OUTSTANDING ERGONOMICS

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

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.

YOUR WORLD

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.

FLOW DRIVE

Flow drive uses improved 2nd generation HVT technology together with Konecranes Lift Trucks software and engine re-configuration to produce lower cabin noise, a less "jerky" ride, and easier change of direction – all of which leads to more relaxed and productive drivers.

SMART LOAD-SENSING HYDRAULICS

Specialty 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.



Meeting the needs of drivers

Cabin OPTIMA, designed and built by Konecranes Lift Trucks, offers comfort and superior visibility for your drivers. Both the cabin and the truck itself can be customized to fit your site requirements, so all of your operations on the ground can run more safely and smoothly.

Ergonomically advanced

Instrumentation is conveniently accessible to the right of and above the driver, improving driver posture and positioning during operation. If you need it, ask us to install extra equipment and add the controls as part of the instrumentation layout.

Solutions for comfort

An excellent seat with compressor suspension, cabin heating and ventilation, air conditioning – we aim to provide your drivers with every possible comfort. Optional ergonomic steering solutions improve your drivers' productivity.

WHAT DO YOU NEED TO LIFT?

We have the attachment

You'll find your lifting solution in our complete range of attachments for reach stackers.



CONTAINER HANDLING



ELME 517-MPS

Telescopic spreader for empty ISO containers with capacity up to 10 tons. Strong single beam spreader design, floating twistlock (410 mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20-40 ft), large sideshift (4800 mm) with 1 hydraulic cylinder and full rotation (-105/+195 deg) with 1 hydraulic motor (turning) and 1 brake (holding). Spreader side tilt +2 deg (MPS = mechanical pile slope). The spreader frame and end beams are of strong heavy-duty design. Weight = appr. 4.8 tons.



ELME 817-MPS/OFL (folded)

With overhead 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. 10.9-11.3 tons.



ELME 817-MPS/OFL in action

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



ELME 817 Innovation

Telescopic spreader for laden ISO containers with capacity up to 46 tons. Strong parallel double beam spreader design, floating twistlock (410 mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20-40 ft), big sideshift (4800 mm) with 2 hydraulic cylinders and full rotation (-105/+195 deg) with 1 hydraulic motor (turning) and 2 brakes (holding). Spreader side tilt with stroke of +2 deg (HPS = mechanical pile slope) and 4 lift eyes included for slings (46 tonnes). ELME 817-HPS with a stroke of +6 deg (HPS = hydraulic pile slope with 4 cylinders). The spreader frame and the end beams are of strong heavy-duty design. Weight of spreader is approx. 7.7 tons without extra equipment.



INTERMODAL HANDLING



ELME 857-HPS (folded)

Telescopic intermodal spreader (combi) (pop/back) for laden ISO containers, swap bodies, and trailer handling with capacity up to 45 tonnes (in twistlocks / lift legs). Extension 20/87/90/40 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 = 1700-2200 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.



ELME 857-HPS in action

Legs shown in unfolded position with a trailer being lifted.



INDUSTRIAL HANDLING



ELME industrial tool carrier system

For connecting tools (connection points = 2500 x 760 mm). Strong single beam spreader design, floating twistlock (410 mm) with hydraulic operation and mechanical safety locking. Large sideshift (TC-50 = 4500 mm / TC-65 = 4300 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 (HPS) or +6 deg (HPS). The spreader frame and end beams are of strong heavy-duty design. Weight TC-50-HPS/TC-65-HPS = appr. 3.0-7.5 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.

10 TO 80 TONS

Reach stackers for efficient and versatile handling of containers and cargo

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 container handling

10 TO 46 TONS



MODEL NAME	CAPACITY	WHEELSPACE
SHV 328 TCS*	10-20 tons	3000 mm
SHV 3215 TCS	22-10-0 tons	3000 mm
SHV 3218 TCS	22-12-0 tons	3000 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4228 TCS (TCA)**	42-22-14 tons	3400 mm
SHV 4228 TCS (TCA)**	42-22-14 tons	3400 mm
SHV 4232 TCS (TCA)**	42-22-17 tons	3400 mm
SHV 4232 TCS (S&S)**	42-22-17 tons	3400 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4238 TCS (TCA)**	42-22-20 tons	3400 mm
SHV 4238 TCS (TCA)**	42-22-20 tons	3400 mm
SHV 4238 TCS (TCA)**	42-22-20 tons	3400 mm
SHV 4238 TCS (TCA)**	42-22-20 tons	3400 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4242 TCS	42-22-22 tons	3400 mm
SHV 4242 TCS**	42-22-22 tons	3400 mm
SHV 4242 TCS**	42-22-22 tons	3400 mm
SHV 4242 TCS**	42-22-22 tons	3400 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4248 TCS	42-22-28 tons	3400 mm
SHV 4248 TCS**	42-22-28 tons	3400 mm
SHV 4248 TCS**	42-22-28 tons	3400 mm
SHV 4248 TCS**	42-22-28 tons	3400 mm

*TCS 2 High, TCS = 3 High

**Support jacks down

For barge handling

46 TONS



MODEL NAME	CAPACITY	WHEELSPACE
SHV 4244 TCA BH	42-22-24 tons (vert)	3200 mm
	42-21-19 tons (barge)	3200 mm
SHV 4244 TCA BH**	42-22-22 tons (vert)	3200 mm
	42-22-17 tons (barge)	3200 mm
SHV 4248 TCS BH	42-22-28 tons (vert)	3000 mm
	42-22-21 tons (barge)	3000 mm
SHV 4248 TCA BH**	42-22-24 tons (vert)	3000 mm
	42-22-17 tons (barge)	3000 mm

BH** = Capacity with support jacks engaged

For intermodal handling

41 TO 45 TONS



MODEL NAME	CAPACITY	WHEELSPACE
SHV 4222 CCS	42-22-10 tons	3400 mm
SHV 4227 CCS	42-27-12 tons	3400 mm
SHV 4231 CCS	42-31-16 tons	3400 mm
SHV 4231 CCS**	42-31-20 tons	3400 mm
SHV 4233 CCS	42-33-16 tons	3400 mm
SHV 4233 CCS**	42-33-20 tons	3400 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4237 CCS	42-37-22 tons	3400 mm
SHV 4237 CCS	42-37-22 tons	3400 mm
SHV 4238 CCS	42-38-23 tons	3400 mm
SHV 4238 CCS**	42-38-23 tons	3400 mm

MODEL NAME	CAPACITY	WHEELSPACE
SHV 4242 CCS	42-42-28 tons	3400 mm
SHV 4242 CCS**	42-42-28 tons	3400 mm

**CCS Capacity with support jacks engaged

For industrial handling

35 TO 80 TONS



MODEL NAME	CAPACITY	WHEELSPACE
SHV 4228	22-22 tons	3400 mm
SHV 4228	22-22 tons	3400 mm
SHV 4232	22-22 tons	3400 mm
SHV 4232	22-22 tons	3400 mm
SHV 4242	42-22 tons	3400 mm
SHV 4242	42-22 tons	3400 mm
SHV 4242	42-22 tons	3400 mm

Other models upon request

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. In 2020, Group sales totaled EUR 3.2 billion. The Group has around 16,900 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).



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