

22000–176300 LBS

# 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.



## 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.

### 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.



## 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.



## 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

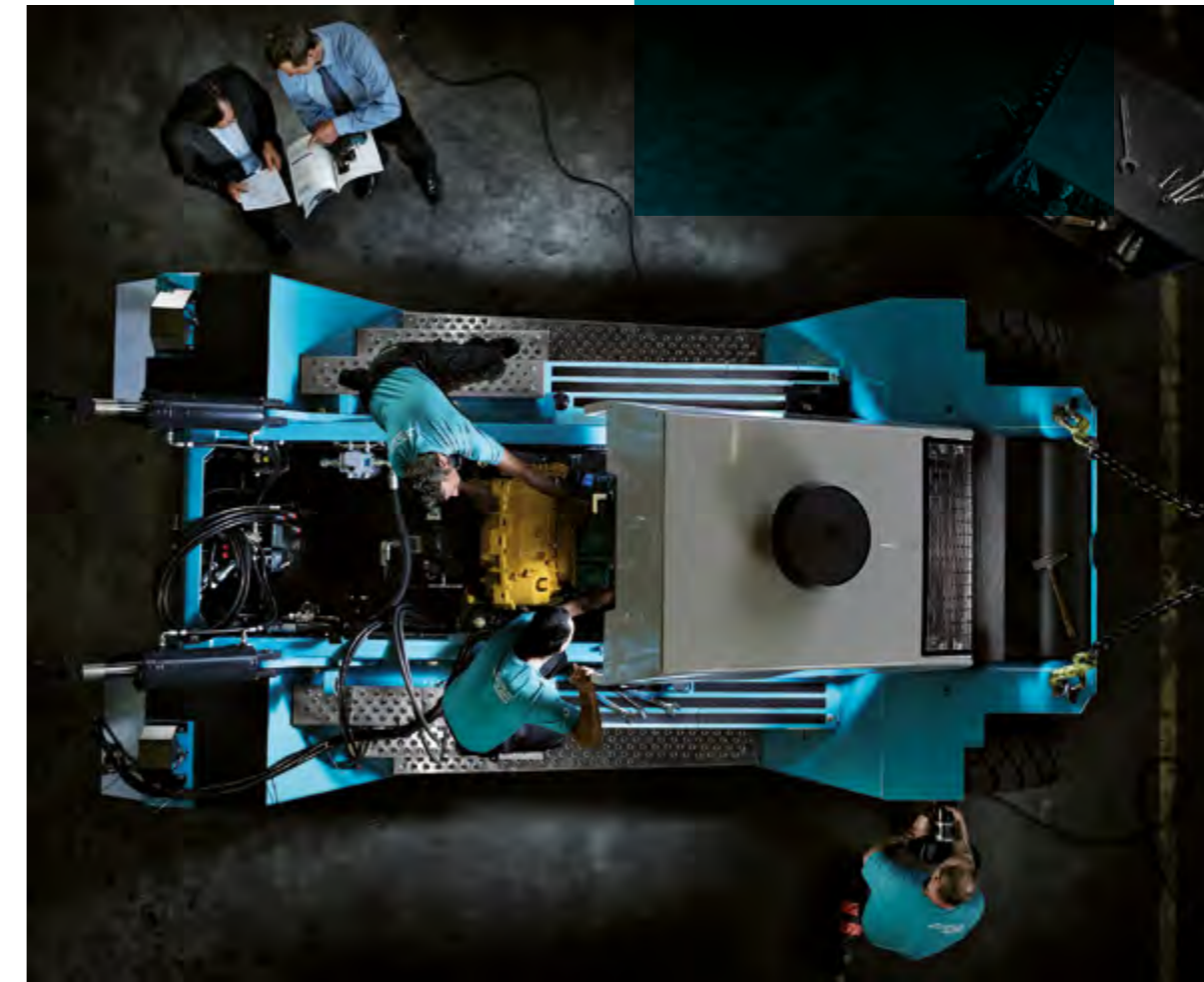
Listening to our customers and meeting their needs has been our way from the very start. Not only do we want to help you to lift loads, but we also want to help lift our customers' businesses. So we listen, learn and develop our products based on customer experience.

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

- SMV 4535 TCX6, equipped with 45-degree tilting spreader
- SMV 4638 TC5, equipped with magnet for steel handling
- SMV 4646 TCX4 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.

## 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

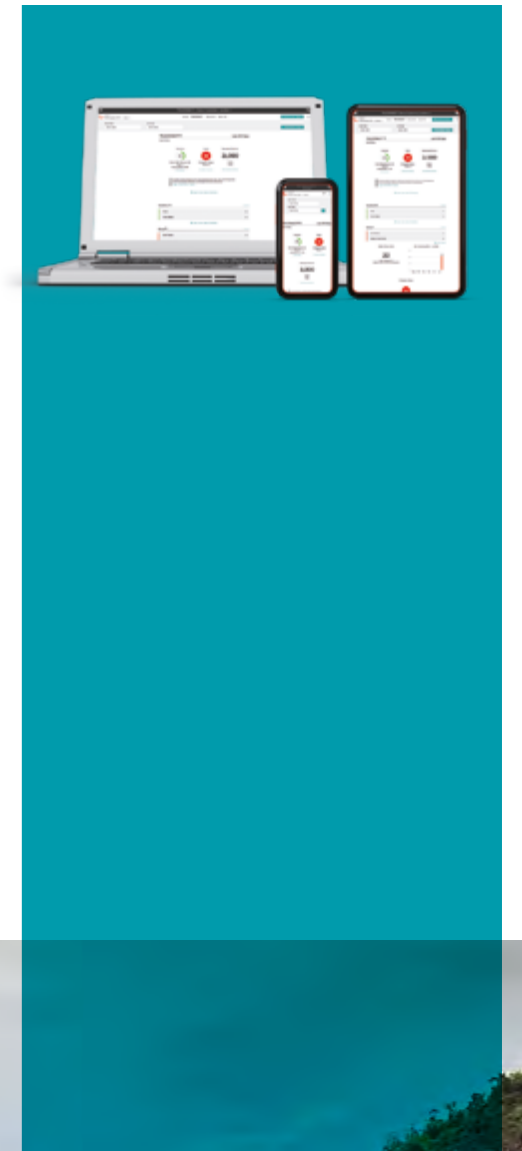
Is your maintenance at regular intervals, or do you plan it based on your actual needs? Do you order spare parts after a breakdown, or do you get them before they are needed? Do you know how your lift trucks are doing, or are you still guessing?

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.





# Powered by 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.

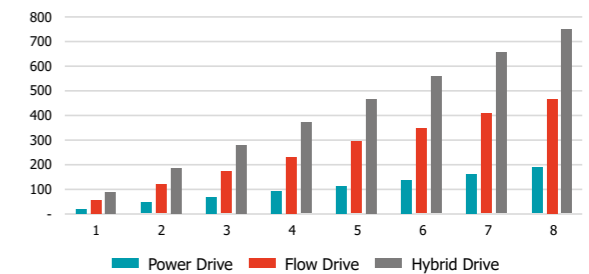
ECOLIFTING is a future-proof concept with new solutions continuously in development. In all of our products, true value lies in the small and intelligent details implemented with cutting-edge technology that make Konecranes Lift Trucks some of the world's most advanced lift trucks. Small things make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

## Go green with 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

(tons of CO<sub>2</sub>, accumulated)



## 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 Powered by ECOLIFTING can make a big difference in operating costs without any decrease in performance. You don't have to choose between being "green" and being "great" – you can be both.



#### 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

# 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.

### FLOW DRIVE

Flow drive uses improved 2<sup>nd</sup> 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

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.

## 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.



## 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 22000 lb. Strong single beam spreader design, floating twistlock ( $\pm 0,4$  inches) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), large sideshift ( $\pm 31,5$  inches) with 1 hydraulic cylinder and full rotation ( $-105/+195$  deg) with 1 hydraulic motor (turning) and 1 brake (holding). Spreader side tilt  $\pm 2$  deg (MPS = mechanical pile slope). The spreader frame and end beams are of strong heavy-duty design. Weight = appr. 10500 lb.



### ELME 817-MPS/OFL (folded)

With overheight folding legs for open-top containers and flat racks (extra high cargo). The foldable extension legs are 63 or 82 inches long and activated by 4 cylinders. Weight appr. 22700–24900 lb.



### ELME 817-MPS/OFL in action

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.



### ELME 857-HPS Innovation (folded)

Telescopic intermodal spreader (combi/piggyback) for laden ISO containers, swap bodies, and trailer handling with capacity up to 99200 lb (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 = 141 inches and leg opening = 67-126 inches. The package of spreader frame and legs is of strong heavy-duty design. All container functions as for ELME 817-MPS/OFL. Weight appr. 29900 lb.



### ELME 857-HPS Innovation in action

Legs shown in unfolded position with a trailer being lifted.

## INDUSTRIAL HANDLING



### ELME industrial tool carrier system

For connecting tools (connection points = 98 x 30 inches). Strong single beam spreader design, floating twistlock ( $\pm 0,4$  inches) with hydraulic operation and mechanical safety locking. Large sideshift (TC-50 =  $\pm 20$  inches / TC-65 =  $\pm 12$  inches) with 1 hydraulic cylinder and full rotation ( $-105/+195$  deg) with 1 hydraulic motor (turning) and 2 brakes (holding). Spreader side tilt  $\pm 2$  deg (MPS) or  $\pm 6$  deg (HPS). The spreader frame and end beams are of strong heavy-duty design. Weight TC-50-MPS/TC-65-MPS = appr. 11000-16500 lb.



### 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 27-21/35-78/59-102 inches. Capacities up to 110200 lb (in grab unit). Grab weight = appr. 19800–26400 lb.



### ELME 817 Innovation

Telescopic spreader for laden ISO containers with capacity up to 101400 lb. Strong parallel double beam spreader design, floating twistlock ( $\pm 0,4$  inches) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), big sideshift ( $\pm 31,5$  inches) 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  $\pm 2$  deg (MPS = mechanical pile slope) and 4 lift eyes included for slings (101400 lb). ELME 817-HPS with a stroke of  $\pm 6$  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 16900 lb without extra equipment.



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 22000 TO 101400 LBS



MODEL NAME	CAPACITY	WHEELBASE
SMV 108 TC6*	22000-17600-11000 lb	197 inches
SMV 128 TC6*	26400-17600-9900 lb	197 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 2216 TC3	48500-35200-13200 lb	216 inches
SMV 2518 TC3	55100-39600-17600 lb	216 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4228TC5 (TC6)*	92500-61700-30800 lb	252 inches
SMV 4628TC5 (TC6)*	101400-61700-30800 lb	252 inches
SMV 4632TC5 (TC6*)	101400-70500-37400 lb	252 inches
SMV 4632TC6H (6x9'6")	99200-70500-37400-19800 lb	252 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4636TC5 (TC6)*	101400-79300-44000 lb	252 inches
SMV 4636TCX5 (TC6)**	101400-83700-55100 lb	252 inches
SMV 4638TC5 (TC6)	101400-83700-44000 lb	252 inches
SMV 4638TCX5 (TC6)**	101400-92500-61700	252 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4643TC5	101400-94700-55100 lb	285 inches
SMV 4643TCX5**	101400-99200-68300 lb	285 inches
SMV 4644TC5	101400-97000-57300 lb	295 inches
SMV 4644TCX5**	101400-99200-77100 lb	295 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4646TC5	101400-101400-83700 lb	315 inches
SMV 4646TCX5**	101400-101400-99200 lb	315 inches



MODEL NAME	CAPACITY	WHEELBASE
SMV 4646 TC4 BH	101400-83700-52900 lb (yard) 101400-68300-41800 lb (barge)	295 inches
SMV 4644 TCX4 BH**	101400-92500-70500 lb (yard) 101400-83700-59500 lb (barge)	295 inches
SMV 4646 TC3 BH	101400-101400-79300 lb (yard) 101400-83700-68300 lb (barge)	354 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4646 TCX4 BH**	101400-101400-94700-74900 lb (yard) 101400-99200-81500-61700 lb (barge)	354 inches

BH\*\* = Capacity with support jacks engaged

## For intermodal handling 92500 TO 101400 LBS



MODEL NAME	CAPACITY	WHEELBASE
SMV 4224 CC5	92500-52900-22000 lb	252 inches
SMV 4628 CC5	101400-61700-30800 lb	252 inches
SMV 4632 CC5	101400-70500-37400 lb	252 inches
SMV 4632 CCX5***	101400-74900-46200 lb	252 inches
SMV 4634 CC5	101400-74900-37400 lb	252 inches
SMV 4634 CCX5***	101400-83700-55100 lb	252 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4638 CC5	101400-83700-48500 lb	285 inches
SMV 4638 CCX5	101400-90300-63900 lb	285 inches
SMV 4639 CCX4	101400-90300-76000 lb	295 inches
SMV 4639 CC5	101400-83700-52900 lb	295 inches
SMV 4639 CCX5***	101400-88100-72700 lb	295 inches

MODEL NAME	CAPACITY	WHEELBASE
SMV 4646 CC5	101400-101400-74900 lb	315 inches
SMV 4646 CCX5***	101400-101400-99200 lb	315 inches

\*\*\*CCX Capacity with support jacks engaged

## For industrial handling 77100 TO 176300 LBS



MODEL NAME	CAPACITY	WHEELBASE
SMV 4228	77100-110200 lb	252 inches
SMV 4628	77100-110200 lb	252 inches
SMV 4632	77100-110200 lb	252 inches
SMV 4636	77100-110200 lb	252 inches
SMV 4643	88100-132200 lb	285 inches
SMV 4644	88100-132200 lb	295 inches
SMV 4646	88100-176300 lb	315 inches

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 2021, Group sales totaled EUR 3.2 billion. The Group has around 16,500 employees in 50 countries. Konecranes shares are listed on the Nasdaq Helsinki (symbol: KCR).**



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