

INDUSTRIAL CRANES  
NUCLEAR CRANES  
PORT CRANES  
**HEAVY-DUTY LIFT TRUCKS**  
SERVICE  
MACHINE TOOL SERVICE

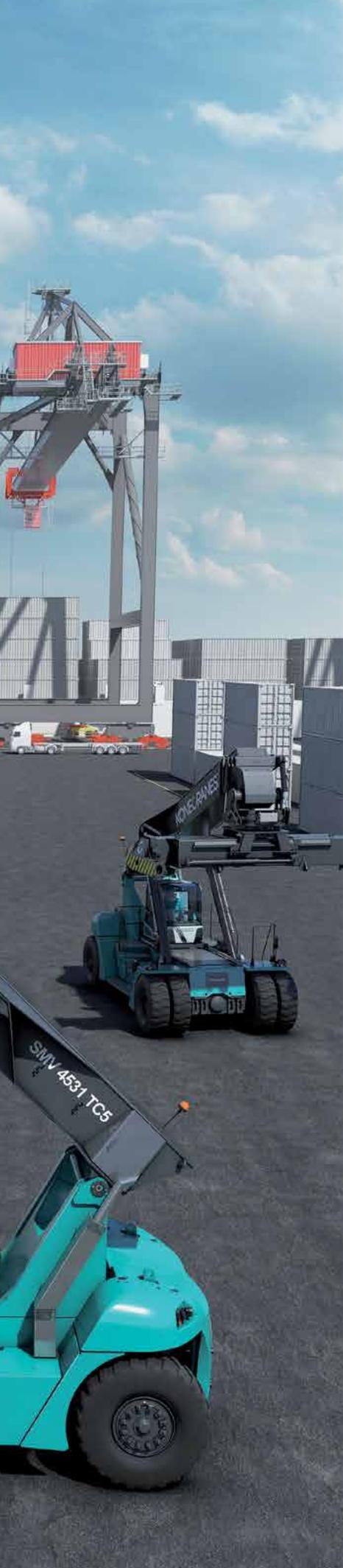
**REACH STACKERS**

**KONECRANES®**  
Lifting Businesses™

# 10–80 tons **REACH STACKERS WITH HEART**







## Remarkable versatility

# FROM CONTAINERS TO INDUSTRIAL CARGO

**We have a long history of working with container ports and intermodal terminals that are expert buyers and operators of reach stackers. Our container handling customers demand a lot of us, and we have a long track record of meeting their requirements year after year.**

Larger reach stackers are needed for railroad stacking. To load and unload on more than one track you need a flexible reach stacker with a large lifting capacity and an extended set of functions. You will find a reach stacker in our range that will meet the specific requirements of your terminal.

### Industrial workhorses

We also work with many industrial companies that need customized reach stackers for their specific industry. Our reach stackers are remarkably adaptable to industrial cargo handling. We provide special spreaders incorporating steel grabs, lifting magnets, vacuum grippers, and coil C-hooks among other attachments. What kind of material do you need to lift and move? Contact us. You'll probably find we have plenty of experience in your industry and can provide the ideal reach stacker.

### Applications

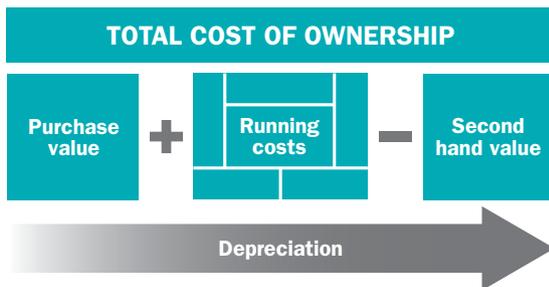
- Container ports and terminals
- Railroads and intermodal
- Trimodal river handling
- Transport, shipping, and logistics
- Steel and aluminum
- Automotive
- Oil and gas
- Wind power
- Nuclear power
- Waste-to-energy



**Made with heart  
in every detail**  
**SMARTER  
WHERE IT  
MATTERS**

**Konecranes has been manufacturing, selling, and supporting heavy-duty lift trucks for some 60 years. Buy a reach stacker from us today and you will get the latest technology, the lowest Total Cost of Ownership, and a reach stacker made with heart.**

We claim the lowest Total Cost of Ownership with our reach stackers, understood as an equation running over a time period of years as shown below. When you're shopping around the suppliers and comparing prices, our truck will probably not be the cheapest. But it will provide the best value over time.



**Close to you**

We sell our lift trucks around the world in two ways: directly via our own sales and service organizations, and indirectly via distributors. In both cases, our lift trucks are fully supported with quickly delivered spare parts and personalized service. Konecranes has the widest service reach of any company in the lifting business. And our distributors are some of the most respected in the business.

**Service made easy**

To reduce lifetime running and maintenance costs, we have extended the service interval of the engine by 500 hours, the gearbox by 1000 hours, and the hydraulics by 4000 hours.

Our HLL ultra-fine filter system extends the hydraulic oil change interval from 4000 up to 12000 hours. In practice, you will use up to 80% less hydraulic oil than with a conventional hydraulic system.

**GENUINE KONECRANES PARTS**

Genuine Konecranes parts are the best protection for your investment. They pay off in truck performance and uptime.

**PARTS ONLINE**

> Easy to find, easy to buy

**REAL-TIME SHIPMENT INFORMATION**

> You know where your parts are

**FAST DELIVERY**

> Parts in stock are in your hands within 1–3 days

**PROTECTION BOX**

> All the filters you need, in one package





### **1 Modern and durable lifting spreaders**

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

### **2 Smart load-sensing hydraulics**

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

### **3 Powerful engine**

Certified low-emission engine provides extra high torque at low revs for reduced fuel consumption and low noise levels. We offer a variety of engines for EU stage 4 and EPA Tier 4f.

### **4 OPTIMA – probably the best cabin on the market**

Every detail has been carefully designed for comfort and safety. Controls, displays, ventilation, and seating work to boost driver productivity. Excellent visibility in all directions.

### **5 Electronic Machine Control, EMC Master**

Full monitoring of all the vital components and functions on a 7" touch screen. Programmable settings. CanBus technology increases engine and transmission reliability as well as hydraulics and joystick control.

### **6 Heavy-duty box-type chassis**

The strongest on the market. The foundation of long-lasting high performance.

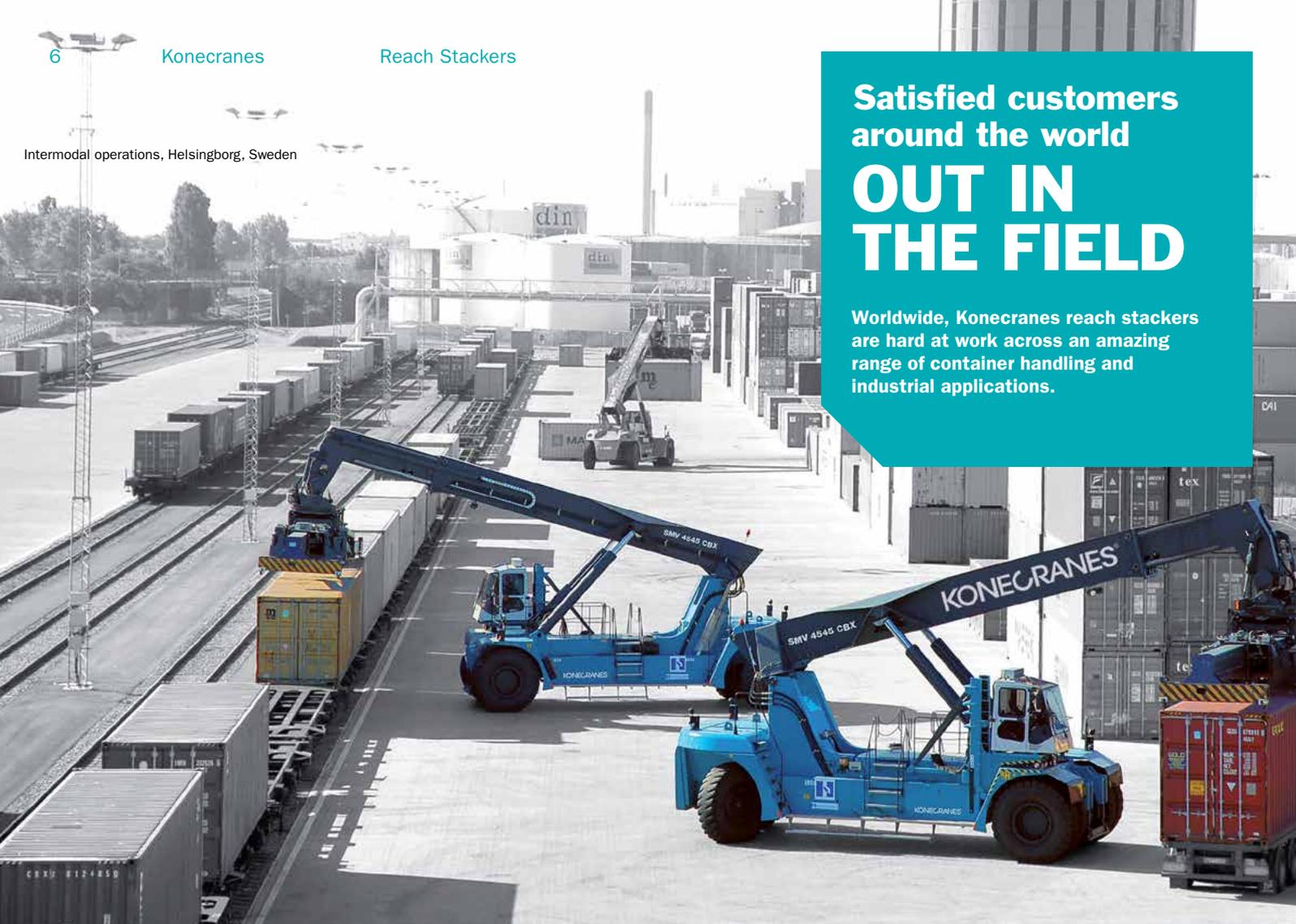
### **7 Maintenance-free brakes**

Brakes with continuous oil cooling provide full braking power in every situation.

### **8 Excellent stability**

Wide, strong drive axle and long wheelbase. The two keys to excellent stability for safe lifting of heavy loads.

Intermodal operations, Helsingborg, Sweden



Satisfied customers  
around the world  
**OUT IN  
THE FIELD**

Worldwide, Konecranes reach stackers are hard at work across an amazing range of container handling and industrial applications.

Multi-purpose operations, Germany



Laden container handling, Norway



Steel slab handling, Finland



Empty container handling, Germany



La Spezia, Italy



Intermodal operations, UK



Laden container handling, China



Oil and gas pipeline handling, Norway



Intermodal operations, Helsingborg, Sweden



# OPTIMA ENHANCED SPACIOUSNESS AND VISIBILITY

## Customized for your container handling needs.

When you step inside OPTIMA cabin, you find outstanding spaciousness and superior visibility. That makes operating the lift truck safe and efficient, along with valuable extra equipment.

The remarkable visibility is made possible by very large, lowered windows with no corner posts, thin but very strong roof crossmember, and curved panels. Sightlines to key working areas are clear both in the front, to the sides, and to the rear.

New EMC Master with MD4 7" touch screen enables a more spacious cabin with its integrated solutions. There is also more space for operating the foot pedals.

The positioning of the instrumentation improves operating ergonomics. Instrumentation has been moved from the driver's left side to his right, above his seat, where it is conveniently accessible.

OPTIMA is customizable for your exact operational needs. You can select mini-wheel steering, lever steering, the driver's seat, and precisely the instrumentation that you need. A hydraulic sliding cabin (stroke 2900 mm), a vertically movable cabin RHS (stroke 2850 mm), and EMC remote control are also available.

### 1 Remarkable visibility

You know great visibility when you see it. Sitting down in OPTIMA shows you what superior visibility means.

### 2 Electronic Machine Control, EMC Master

Full monitoring of all the vital components and functions on a MD4 7" touch screen. Programmable settings. CanBus technology increases engine and transmission reliability as well as hydraulics and joystick control.

### 3 Left armrest mini-steering options

Optional, ergonomic steering solutions that improve productivity.

### 4 Ergonomic instrumentation

Whatever extra equipment you need, we can install it as part of an ergonomic instrumentation layout. OPTIMA is truly spacious.

### 5 Comfort

An excellent seat, powerful cabin heating and ventilation, air conditioning – the driver is provided with every possible comfort.

### 6 Joystick control

Available with electronic joystick with auto accelerator/power control.



Lever steering with return



Mini-wheel steering



Lever steering without return



Remote control unit for rail and barge handling

## A world of options

# BOOSTING SAFETY AND EFFICIENCY

**Konecranes invests significantly in reach stacker R&D to be the first to offer new technologies that improve performance and safety. We also ensure that our reach stackers are fully compliant with emissions regulations, anticipating their evolution as a normal part of our product development process.**

### Emissions-compliant diesel engines

We offer a wide range of powerful Volvo and Scania engines certified according to EU stage 4 and US EPA Tier 4f.

### EMC Master

Our Electronic Machine Control system, EMC Master, provides the following functions as standard:

- Electronic overload & safety system
- Full truck monitoring
- ECO-Drive and fuel management
- Productivity counter management
- Driver log-in (20 drivers)
- Data logging of alarms and errors
- Transport mode (boom/spreader load optimizer)
- Auto accelerator / power control

The following functions are optional:

- Vertical auto-lift function
- Horizontal auto-lift function
- Remote control unit (railroad/barge loading)
- Electronic weight scale
- Mini-wheel steering
- Lever steering
- Auto engine shut-down
- Auto parking brake
- Drive speed limitation (unloaded/loaded)
- Remote Access Service via GPRS/(3G)
- TRUCONNECT Remote Services

### TRUCONNECT Remote monitoring for lift trucks

The TRUCONNECT Remote Monitoring service enables you to track the real usage of your lift trucks through a remote connection. It provides you with an online view as well as periodic PDF and Excel reports that illustrate the actual use of your lift trucks. The data gives you confidence to not only plan your actions but also to make informed decisions regarding maintenance investments and productivity.

#### TRUCONNECT Basic

- Safety alerts
- Machine status
- Average fuel consumption
- Average fuel consumption per lifted load

- Total fuel consumption
- Traveling distance
- Average traveling speed
- Load spectrum
- Total load lifted
- Alarm fault codes from engine and transmission

#### TRUCONNECT Premium

- All the features included in TRUCONNECT Basic AND
- Tyre pressure monitoring
- Shock sensors
- Alarm on emails and SMS
- GPS signal
- Data on command

#### TRUCONNECT Premium+

- Features included in TRUCONNECT Basic
- Features included in TRUCONNECT Premium AND
- Hydraulic oil particles counter and water content

### Tire pressure system

Under-inflated tires can increase fuel consumption by as much as 15% while impairing stability and drivability. Our tire pressure system makes it easy to keep your lift truck tires properly inflated. It's installed in minutes. If you combine it with the drive speed limitation provided by EMC Master you can extend the life of your tires even further.

### Fire alarm and suppression system

We offer an effective fire alarm and suppression system that can be activated either manually or automatically. When the reach stacker is in use, the system discharges in one of three ways: manually from inside the cabin; manually from outside via a mudguard trigger; automatically, triggered by sensors in the engine compartment. When the reach stacker is not in use, i.e. when the master power switch is turned off, the system discharges automatically when the fire alarm goes off.

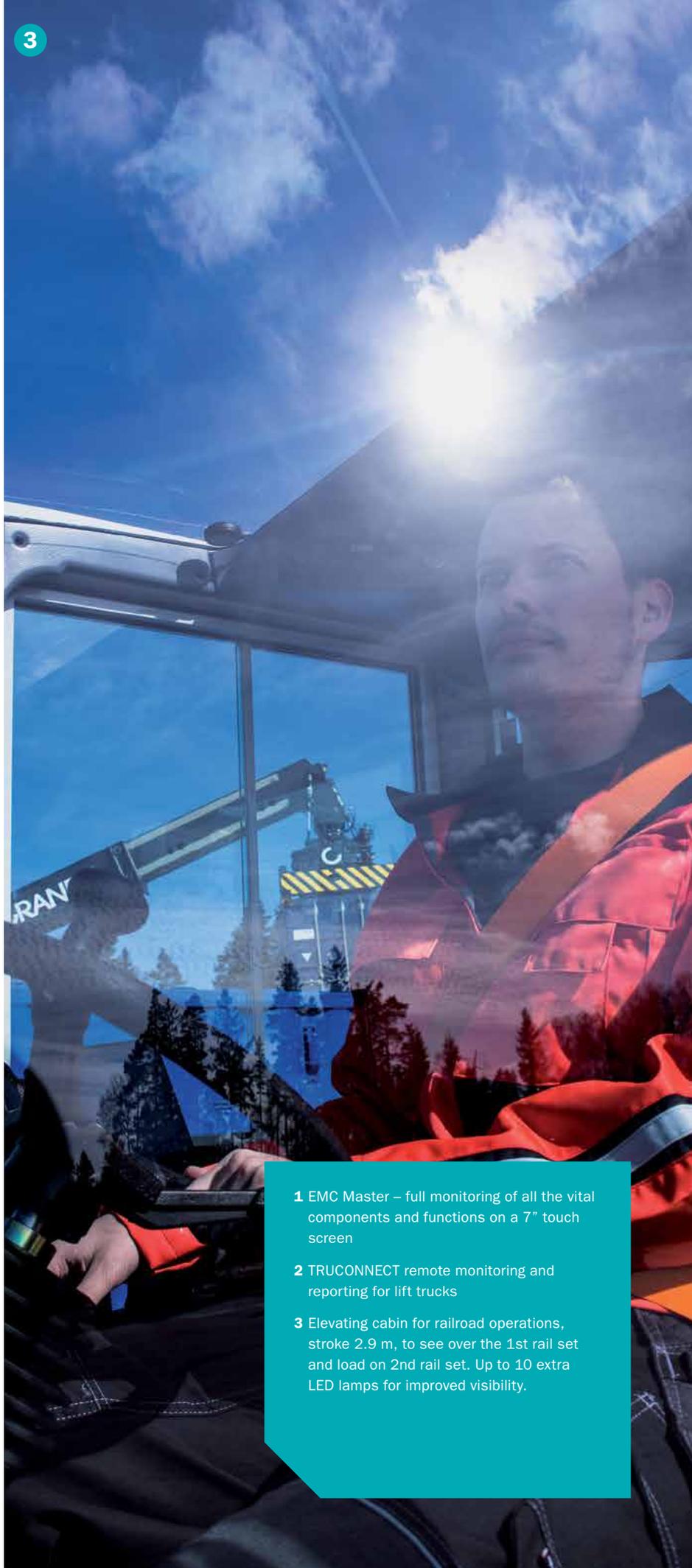
### Other safety options

- Parking Distance Control (PDC) with sensors for driving in reverse.
- Breath Analyzer: an alcohol test unit which requires the driver to take a breath test before starting the reach stacker.
- Camera Supervision System: can be mounted as a reversing camera on the rear of the reach stacker or as a forward camera mounted on the spreader or chassis.

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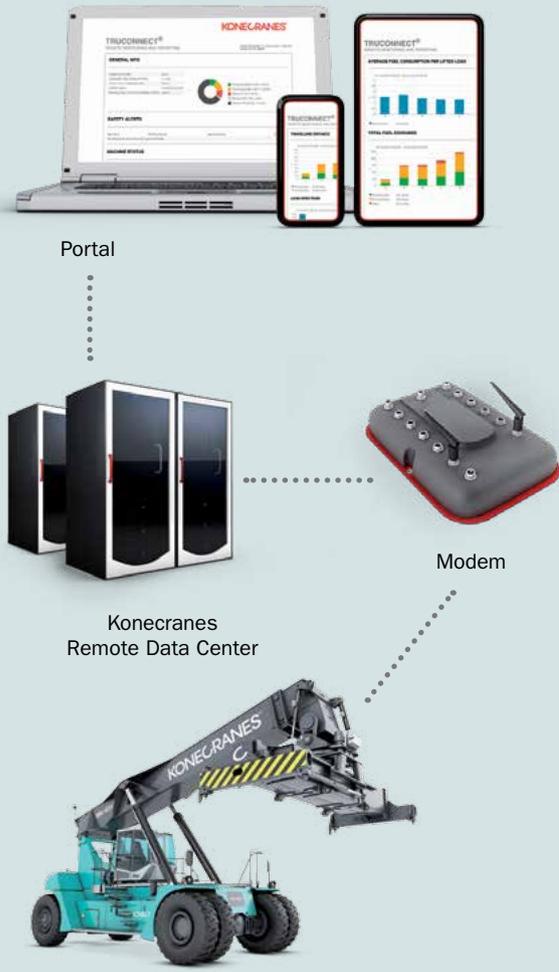


3



2

REMOTE WORKFLOW



- 1 EMC Master – full monitoring of all the vital components and functions on a 7" touch screen
- 2 TRUCONNECT remote monitoring and reporting for lift trucks
- 3 Elevating cabin for railroad operations, stroke 2.9 m, to see over the 1st rail set and load on 2nd rail set. Up to 10 extra LED lamps for improved visibility.

## 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 and well-proven single beam spreader design, floating twistlock ( $\pm 10$  mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), large sideshift ( $\pm 800$  mm) 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 the end beams are of strong heavy-duty design. Weight = appr. 4.8 tons.



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

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.



#### ELME 817-MPS

Telescopic spreader for laden ISO containers with capacity up to 45 tons. Strong and well-proven parallel double beam spreader design, floating twistlock ( $\pm 10$  mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), big sideshift ( $\pm 800$  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  $\pm 2$  deg (MPS = mechanical pile slope) and 4 lift eyes included for slings (45 tons). 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 817-MPS/HPS = appr. 9.3/10.3 tons.



#### ELME 817-MPS/OFL in action

Above, 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.

### Also available

- Pipe and tube handling attachment
- Clamp for steel handling

Several others available upon request



## Intermodal handling



## Industrial handling



### ELME 857-HPS (folding)

Telescopic intermodal spreader (combi/piggyback) for laden ISO containers, swap bodies, and trailer handling with capacity up to 45 tons (in twistlocks / in 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.



### ELME industrial tool carrier system

For connecting tools (connection points = 2500 x 760 mm). Strong and well-proven single beam spreader design, floating twistlock ( $\pm 10$  mm) with hydraulic operation and mechanical safety locking. Large sideshift (TC-50 =  $\pm 500$  mm / TC-65 =  $\pm 300$  mm) 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 the end beams are of strong heavy-duty design. Weight TC-50-MPS/TC-65-MPS = appr. 5.0–7.5 tons.



### ELME 857-HPS in action

Legs shown in unfolded position with a trailer being lifted.

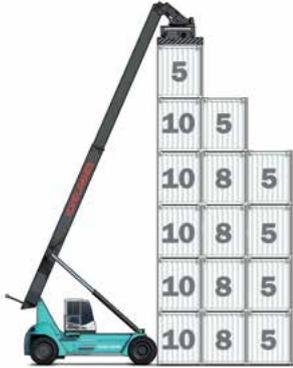


### Hydraulic steel slab grab unit

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.

# PREMIUM PERFORMANCE IS WITHIN YOUR REACH

## Reach stackers for container handling, 10 to 45 tons



MODEL NAME	CAPACITY	WHEELBASE
SMV 108 TC6	10-8-5 tons	5000 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 2115 TC3	21-15-5 tons	5500 mm
SMV 2518 TC3	25-18-8 tons	5500 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 4127 TC5 (TC6)*	41-27-14 tons	6400 mm
SMV 4527 TC5 (TC6)*	45-27-14 tons	6400 mm
SMV 4531 TC5 (TC6)*	45-31-16 tons	6400 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 4535 TC5 (TC6)*	45-35-20 tons	6400 mm
SMV 4535 TCX5**	45-37-24 tons	6400 mm
SMV 4537 TC5	45-37-19 tons	6400 mm
SMV 4537 TCX5**	45-41-28 tons	6400 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 4542 TC5	45-42-24 tons	7250 mm
SMV 4542 TCX5**	45-44-30 tons	7250 mm
SMV 4543 TC5	45-42-25 tons	7500 mm
SMV 4543 TCX5**	45-44-34 tons	7500 mm



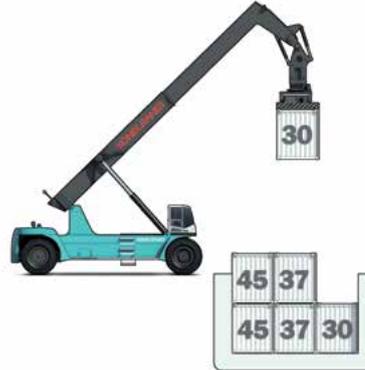
MODEL NAME	CAPACITY	WHEELBASE
SMV 4545 TC5	45-45-37 tons	8000 mm
SMV 4545 TCX5**	45-45-45 tons	8000 mm

## Reach stackers for intermodal handling, 41 to 45 tons



MODEL NAME	CAPACITY	WHEELBASE
SMV 4123 CC5	41-23-9 tons	6400 mm
SMV 4527 CC5	45-27-13 tons	6400 mm
SMV 4531 CC5	45-31-16 tons	6400 mm
SMV 4531 CCX5***	45-33-20 tons	6400 mm
SMV 4533 CC5	45-33-16 tons	6400 mm
SMV 4533 CCX5***	45-37-24 tons	6400 mm

## Reach stackers for barge handling, 45 tons



MODEL NAME	CAPACITY	WHEELBASE
SMV 4542 TC4 BH	45-37-23 tons (yard)	7500 mm
	43-30-18 tons (barge)	7500 mm
SMV 4542 TCX4 BH**	45-41-31 tons (yard)	7500 mm
	45-37-26 tons (barge)	7500 mm
SMV 4545 TC3 BH	45-45-35 tons (yard)	9000 mm
	45-37-30 tons (barge)	9000 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 4537 CC5	45-37-22 tons	7250 mm
SMV 4537 CCX5	45-40-28 tons	7250 mm
SMV 4538 CC5	45-38-23 tons	7500 mm
SMV 4538 CCX5***	45-40-32 tons	7500 mm

## Reach stackers for industrial handling, 35 to 80 tons



MODEL NAME	CAPACITY	WHEELBASE
SMV 4127	35-50 tons	6400 mm
SMV 4527	35-50 tons	6400 mm
SMV 4531	35-50 tons	6400 mm
SMV 4535	35-50 tons	6400 mm
SMV 4542	40-60 tons	7250 mm
SMV 4545	40-80 tons	8000 mm



MODEL NAME	CAPACITY	WHEELBASE
SMV 4545 CC5	45-45-33 tons	8000 mm
SMV 4545 CCX5***	45-45-45 tons	8000 mm

\*TC5 = 5 high, TC6 = 6 high

\*\*TCX = Capacity with support jacks engaged

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

**Other models upon request**

# HOW TO REDUCE TOTAL COST OF OWNERSHIP

**Keep to preventive maintenance schedules no matter how much operational pressure and temptation prevent you from doing so.**

## USE KONECRANES GENUINE SPARE PARTS

### VALUE

When you're in the market for a spare or replacement part, how do you calculate its value? Is price your only consideration? We all know that you can look online and find non-OEM suppliers offering cheap prices. However, are these cheap parts truly a value? We don't believe they are. Instead, we believe there's inherent value in purchasing from the original manufacturer of the equipment. That value is reflected in engineering expertise, upgrades and new features not available elsewhere. Ultimately, it will also be reflected in optimal operational performance.

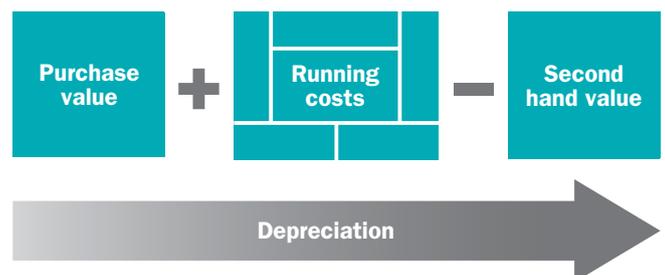
### WARRANTY

KONECRANES Genuine Parts are covered by a 6-month warranty and are the only replacement parts that will not impact the validity of your KONECRANES's manufacturer's warranty.

- ✓ **All Konecranes lift trucks are equipped with a load-sensing hydraulic system.** This system uses the engine power only as needed at each moment of the lift, based on the load and required lifting speed. It always provides power-on-demand. If you are driving and not lifting, the system turns off the oil flow. The result is reduced fuel consumption and reduced engine and drive train wear.
- ✓ **Use TRUCONNECT Remote Monitoring and Reporting for Lift Trucks, a first in the industry.** TRUCONNECT allows you to track the real usage of your trucks through a remote connection. It provides online views and reports containing information that will prove invaluable in efforts to improve fleet efficiency, productivity and safety.
- ✓ **TRUCONNECT Premium+ includes for example a tire pressure management system** to reduce tire wear, save fuel and increase safety. Proper inflation of tires provides proper stability, allowing work at the rated maximum load. It extends tire life by as much as 25–50 %, and cuts fuel consumption by as much as 10–25 %. **Shock sensors** in order to detect possible safety concerns and to increase production efficiency. **Hydraulic oil particles counter and water content** in order to measure the particles and the amount of water content in the hydraulic oil. This gives you a better insight into how your oil is doing and when it's actually time to either clean or replace it.
- ✓ **Extend the hydraulic oil change interval by using the Hydraulic Long Life (HLL) filter.** Using an HLL filter makes it possible to extend the recommended oil change interval from 4,000 running hours to 12,000 running hours. You save money and increase truck uptime while helping to preserve the environment. Meanwhile, the HLL filter helps to keep the entire hydraulic system clean: filtration particle size is max. 3 microns. It also reduces the amount of condensed water that gets into the oil tank. All of the hydraulic components work better with the HLL filter.

- ✓ **Start using the following fuel-saving technologies and features:**
  - Use the "auto-throttle" function to optimize engine speed settings.
  - Use the drive speed limiting function to limit the maximum travel speed for example, 15–25 km/h (unloaded) and 10–20 km/h (loaded). These speeds are adjustable and programmable.
  - Use the automatic engine shut-off feature. The limit for idling can be programmed between 2–10 minutes.
  - Reduce fuel, lubricating oil and filters consumption to prolong the life of the engine and achieve a lower noise level.
- ✓ **Start using the Konecranes EcoDrive module to monitor driving habits.** Use the EcoDrive fuel graph, running the engine in the green-to-yellow field only, and try to avoid the red field. The EcoDrive module records driving data so that trucks and drivers can be benchmarked and compared. It's an operational tool for training your drivers to operate your trucks in the most economical and environmentally friendly ways.
- ✓ **Konecranes reach stackers are equipped with auto-throttle.** Autothrottle/automatic engine RPM increase (transmission in neutral) when the boom and/or spreader is being operated, maximizing productivity and optimizing fuel consumption. This smart feature is available for every Konecranes lift truck as an option: EMC 114 Electronic Servo Control.
- ✓ **Konecranes reach stackers and container lift trucks comes as standard with traveling mode function.** This function prevents the operator from driving at full speed if the container is not in the correct driving position, helping to minimize breakdowns and reduce wear and tear. The load distribution should be 1/3 on the two steering tires and 2/3 on the four drive tires.
- ✓ **Carry out annual inspections of your lift truck fleet.** It's a simple fact that preventive maintenance and repairs are much more cost-effective than post-breakdown maintenance and repairs. Konecranes offers an annual fleet inspection service that will maximize your fleet uptime over the long haul. It provides detailed reports on the status of each truck and expert recommendations for keeping your trucks running at peak performance.
- ✓ **Do you operate your trucks in a cold, hot or dusty climate?** If you work in a cold climate, start using our pre-heaters for the engine, transmission and hydraulics. If your trucks work in a hot environment, e.g. steel production, use our heat protection options. If it's a dusty environment, look into our filter options.

## TOTAL COST OF OWNERSHIP



### RUNNING COSTS COMPRISE:

1. Cost of fuel
2. Cost of tires and rims
3. Cost of scheduled maintenance including lubricants, filters, grease and labor
4. Cost of wear and tear (consumables)
5. Cost of breakdown repairs
6. Cost of labor

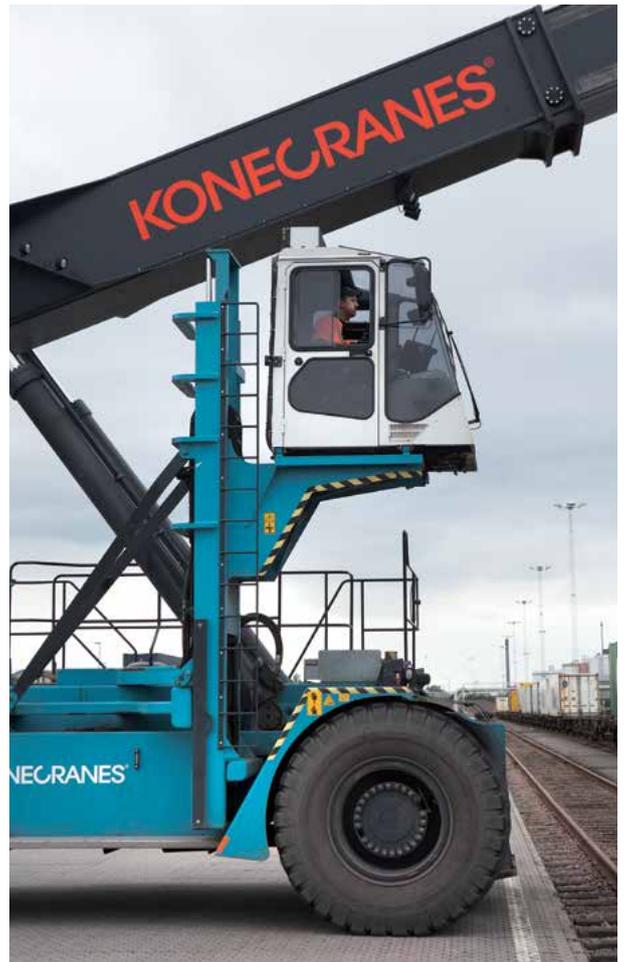
## The Port of Helsingborg

# SERVING A CONTAINER AND INTERMODAL SPECIALIST

**More than 350,000 TEU (twenty-foot container equivalent unit) pass through the Port of Helsingborg every year. The Port's sea, road and rail operations are linked together by thirteen Konecranes reach stackers and a Konecranes fork lift truck.**

In 1726 the Port of Helsingborg was just a 200-meter wooden pier stretching out into the Sound between Sweden and Denmark. Today it handles 8.4 million tons of cargo per year and 8.3 million ferry passengers. While cargo and passenger transport are important parts of its business, the Port of Helsingborg prides itself on being a container specialist. This is confirmed by the number of Konecranes reach stackers that ply the dock area, linking sea, road and rail transport together.

**“It's a pretty big machine, but it's incredibly smooth and easy to operate.** It turns on a dime and this is the most important thing from my point of view,” says Göran Gustafsson who drives one of the SMV 4545 CBX5 reach stackers. Based in the port's Combi terminal, Gustafsson has been one of the drivers of these 110-ton machines since it was new in 2005. The Combi terminal is an area covering 40,000 m<sup>2</sup> with 3 km of railway track where about 50,000 containers and trailers are shifted between road and rail every year. With a lifting capacity of 45 tons up to three tracks away, this reach stacker has logged over 18,000 operating hours and made more than 235,000 lifts.



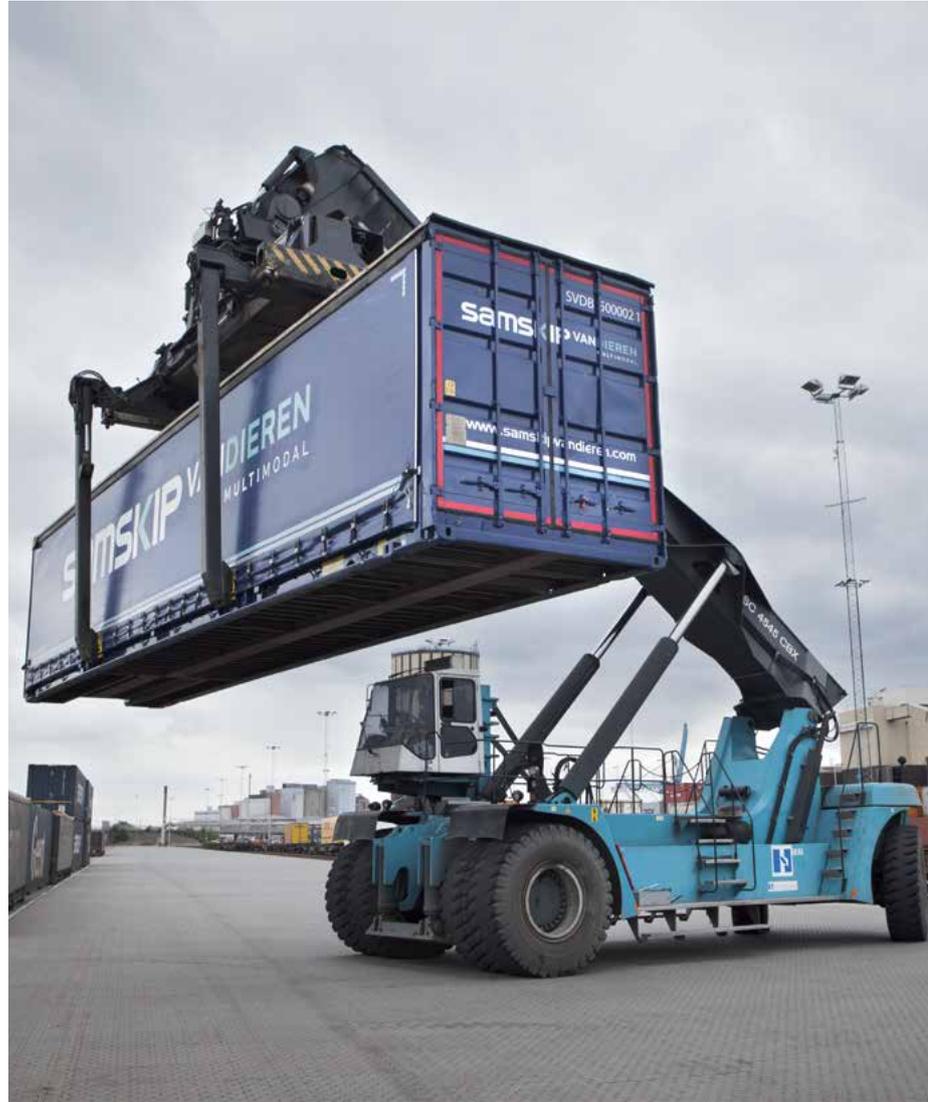
**“On the railway side we must be able to reach across one track and pick up something from the one behind. This demands sturdy equipment.”**

Carl-Gustaf Nordin,  
Operations Manager



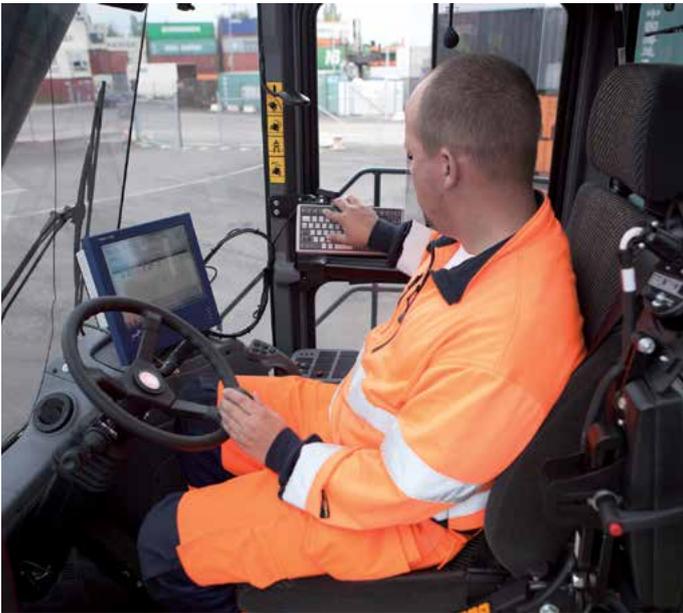
**“They are outstanding when it comes to service and spare parts. If an item is not in stock they will borrow one from the assembly line if they have to. This saves us a lot of money.”**

Mats Fernebrand, Purchasing Manager



“On the railway side we must be able to reach across one track and pick up something from the one behind. This demands sturdy equipment,” says Operations Manager Carl-Gustaf Nordin. Four reach stackers are assigned to the Combi terminal. They are all equipped with a combination attachment on the spreader, so they can handle both containers and trailers. Two of the machines feature a movable cabin – moved by hydraulics, basically a small elevator – that gives the operator extra visibility when needed. And if that isn’t enough, they are also equipped with a special unit for remote control. “The operator can stand beside the reach stacker and control the boom from there. You don’t need an extra helper when you pick up a trailer from the first track,” says Nordin.

**The Port of Helsingborg has a total of thirteen Konecranes reach stackers.** Nine of them are used mainly to load and unload trucks at the sea terminals, serving the tracked and mobile container cranes there. The Port’s first Konecranes reach stacker was an SMV 4531 TA5, purchased in 2002. “Konecranes has become a business partner of ours. We cooperate very closely on these machines,” says Mats Fernebrand, Purchasing Manager. This involves continuous development of the features on existing machines, as well as feedback for the development of new models. Konecranes also trains the Port’s own service technicians and gives occasional support during work peaks.



The SMV 4545 CBX5 reach stacker for intermodal handling can stack and lift 45 tons across all 3 rows.

Fernebrand thinks it can be difficult to distinguish between premium lift truck suppliers if one looks only at technology. But there is one thing that definitely makes Konecranes a different lift truck supplier from the rest. He says he can call almost anybody in the company, knowing that the person answering will always do his or her best to help. “They are outstanding when it comes to service and spare parts. If an item is not in stock they will borrow one from the assembly line if they have to. This saves us a lot of money,” says Fernebrand.

It’s his job to ensure that the Port of Helsingborg’s equipment is ready to meet demand from shipping and forwarding companies. More than 1,500 freighters call at the port every year, moving approximately 180,000 TEU, while an additional 170,000 TEU pass by road and rail. There is no room for unplanned downtime.

**The Port of Helsingborg also handles goods that aren’t containerized, so other lift trucks are needed.**

The port uses a 16-ton Konecranes fork lift truck, type SMV 16-1200B, to handle containers that arrive filled with rolls of steel plate. It takes them to a warehouse for later distribution. The fork lift truck was purchased in 2011 with a long list of options added to the basic specification. Most of the options are related to safety and the environment: a fire extinguishing system, an alcohol lock, a tire pressure monitor with Bluetooth and a rear-view camera, for example. It also has a Scania diesel engine that complies with the European Union’s Stage IIIB limits for emissions of nitride oxides and particulate matter.



INDUSTRIAL  
CRANES



NUCLEAR  
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PORT  
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HEAVY-DUTY  
LIFT TRUCKS



SERVICE

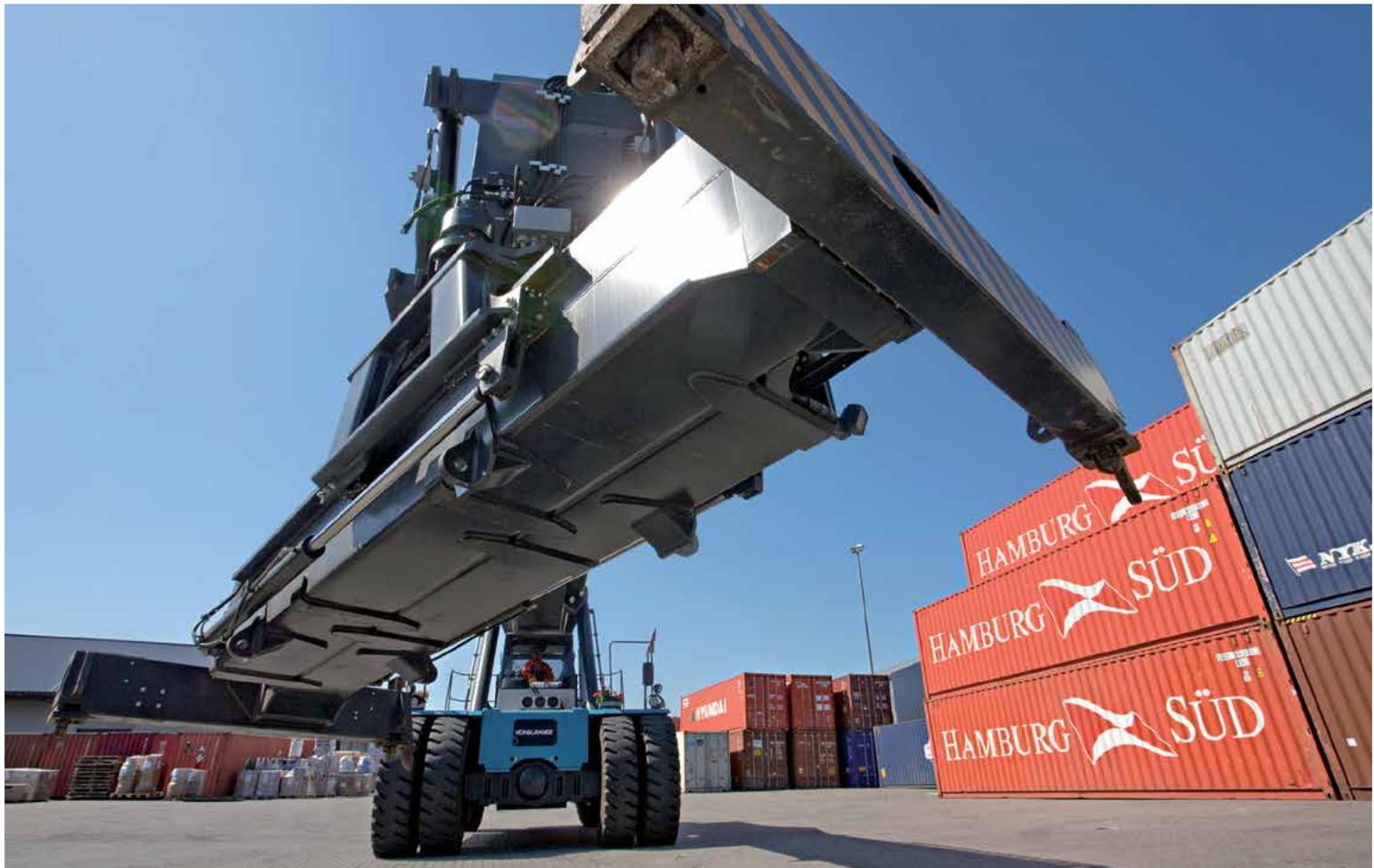


MACHINE  
TOOL  
SERVICE



Konecranes is a world-leading group of Lifting Businesses™ offering lifting equipment and services that improve productivity in a wide variety of industries. The company is listed on Nasdaq Helsinki Ltd (symbol: KCR1V). With almost 12,000 employees at 600 locations in nearly 50 countries we have the resources, technology and determination to deliver on the promise of Lifting Businesses™.

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