

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



FORKLIFTCENTER

Empty 8 – 10 tons, laden 33 – 45 tons **CONTAINER LIFT TRUCKS WITH HEART**





TAKING CONTAINER HANDLING TO A HIGHER LEVEL

Konecranes has a long history of working with leading container ports and terminals that are expert buyers and operators of container lift trucks. Our customers demand a lot of us, and we have a long track record of meeting their requirements year after year.

Empty container lift trucks

Empty containers are non-paying containers that have to be moved out of the way and brought back into play, with the greatest possible efficiency. Our empty container lift trucks offer a very fast total operating speed as a function of lifting, lowering and driving speed based on load-sensing hydraulics. The range has mid-mounted or rear-mounted cabins and excellent stability.

Laden container lift trucks

Laden containers are paying containers that need to be moved with the right balance of efficiency and precision within the container handling process. Our laden container lift trucks offer a fast total operating speed (lifting + lowering + driving speed). The ratio of lifting capacity to truck size and length is best-in-class. These heavy-duty top-loaders are very stable and still rather compact.

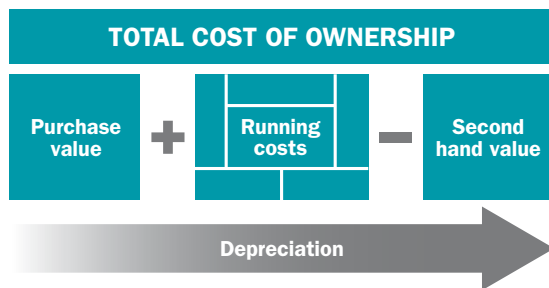


**Made with heart
in every detail**

SMARTER WHERE IT MATTERS

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

We claim the lowest Total Cost of Ownership with our container lift trucks, 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 main ways: directly via our own sales and service organizations in about ten countries, and indirectly via distributors in more than 80 countries. In both cases, our container lift trucks are fully supported with 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



LADEN CONTAINER LIFT TRUCKS

1 Reliable lifting

Lift masts adapted for laden container handling. Hoses and cables kept to a minimum for low maintenance costs and maximum uptime.

2 Single stacking spreader

Toplift handling of 20–40 ft containers, 45–53 ft containers are lifted in 40 ft position with the 4 twistlocks. There are 4 lift eyes for sling cargo, large sideshift, reach in & out, slew left & right and mechanical pile slope. Large sideshift, mechanical pile slope and optional hydraulic pile slope.

3 Maintenance-free brakes

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

4 Powerful engine

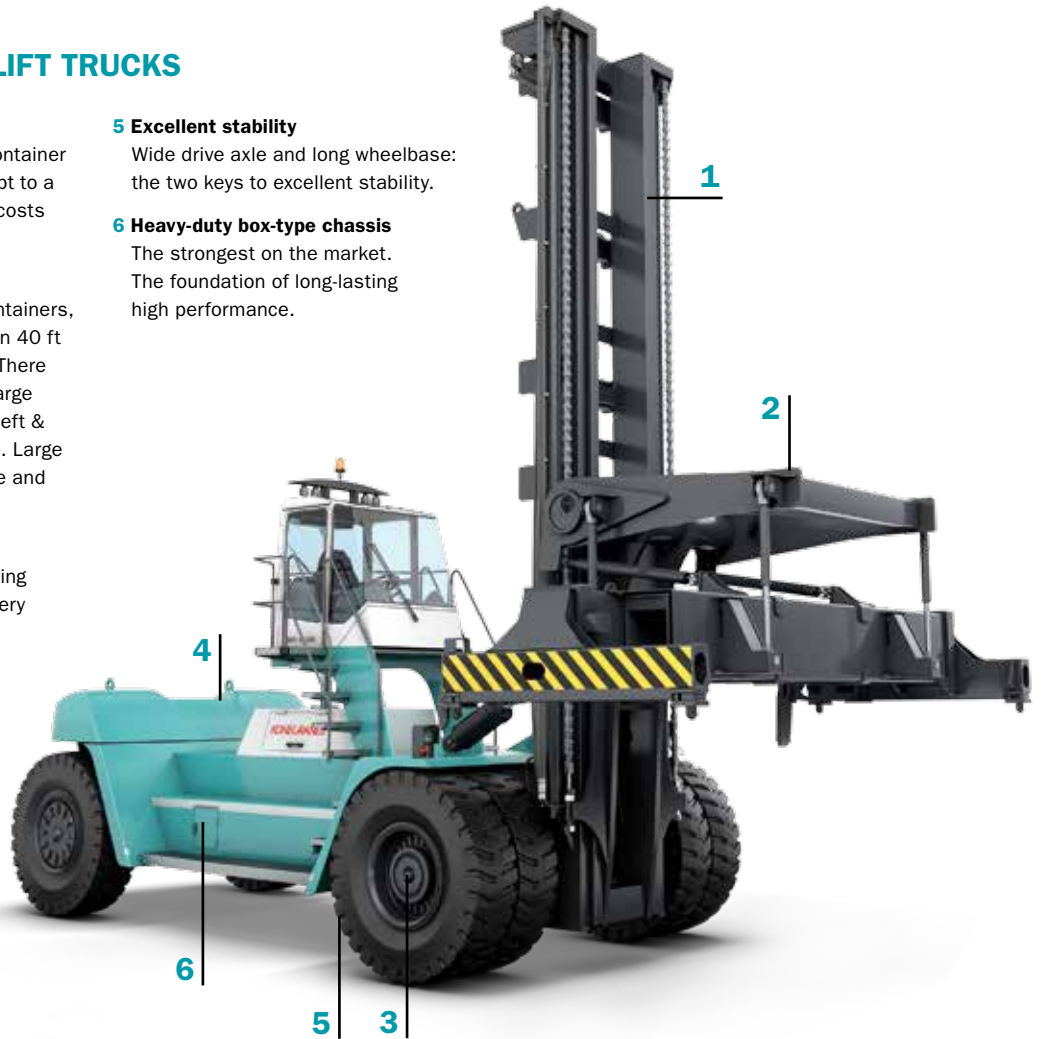
Certified low-emission engine provides extra high torque at low revs, reduced fuel consumption and low noise levels. We offer a variety of engines for EU stage 2/3a/3b and EPA Tier 2/3/4i.

5 Excellent stability

Wide drive axle and long wheelbase: the two keys to excellent stability.

6 Heavy-duty box-type chassis

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



EMPTY CONTAINER LIFT TRUCKS

1 Very fast lifting and lowering

The trucks can lift 8 containers high thanks to the wide mast: hoses and cables are kept to a minimum for low maintenance costs and maximum uptime. Heavy-duty mast and tilt cylinder solution for high stability and safety.

2 Intelligent Electronic Machine Control, EMC Master

Full monitoring of all the vital components and functions. Programmable settings. CanBus technology increases engine and transmission reliability.

3 ErgoCab, 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.

4 Powerful engine

Certified low-emission engine provides extra high torque at low revs, reduced fuel consumption and low noise levels. We offer a variety of engines for EU stage 2/3a/3b and EPA Tier 2/3/4i.

5 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.

6 Single and double stacking

Sidelift handling of 20–40 ft containers, 45–53 ft containers are lifted in 40 ft position with the twistlocks only. Large sideshift, mechanical pile slope and optional hydraulic pile slope. Single mode lifts up to 8 containers high. Double mode lifts up to 2-over-6.



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

Konecranes
container lift
trucks are hard
at work around
the world as an
essential part of
container port
and intermodal
operations.



Empty stacker, China

Empty stacker, Netherlands



Laden top-loader, United Kingdom



Laden top-loader, Saudi Arabia



Empty stacker, Indonesia



Laden top-loader, Australia



Empty stacker, Belgium



Empty stacker, Germany



Laden top-loader, USA



ErgoCab

TRULY SPACIOUS, REMARKABLE VISIBILITY

Customized precisely as you need.

Step inside and you will find that ErgoCab is truly spacious: there is plenty of room for the driver and any extra equipment you might require. “Large” is the standard size. XL and XXL are available as options.

You will also be struck by the remarkable visibility. The windows are very large. There are no corner posts, and the roof cross-member is thin yet very strong. We have done everything possible to ensure clear sightlines to the key working areas, in front, to the sides and to the rear.

You can customize ErgoCab precisely as you require for your container handling operation. Select the joystick, steering wheel, driver’s seat and instrumentation that you need. The empty handlers have set cabin positions for optimized visibility: mid-mounted or rear-mounted on the chassis. The laden handlers have a forward-mounted cabin (3–4 high) or a raised, mid-mounted cabin (4–5 high).

1 Remarkable visibility

Visibility is very difficult to measure objectively: you just know it when you see it. Sit down in ErgoCab, see what visibility from a lift truck cabin can be.

2 Intelligent Electronic Machine Control

Our EMC Master system gives the driver real-time information on truck performance including full monitoring of the engine, transmission, hydraulics and joystick.

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. ErgoCab is truly spacious.

5 Comfort

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

6 Joystick control

Available with a hydraulic joystick or electronic joystick (optional).

3 Left armrest mini-steering options



Lever steering with return



1

6

3

5



Mini-wheel steering



Lever steering without return

6 Right armrest joystick options



Hydraulic servo joystick



Electronic servo joystick

A world of options

BOOSTING SAFETY AND EFFICIENCY

Konecranes invests significantly in container lift truck R&D to be the first to offer new technologies that improve performance and safety. We also ensure that our container lift trucks 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, Scania and Cummins engines certified according to EU stage 2/3a/3b and US EPA Tier 2/3/4i. For EU stage 2/3a and US EPA Tier 2/3 compliance we can offer additional 2-way catalyzers or particle filters (including a catalyzer) to reduce exhaust emissions even further.

EMC Master

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

- Full truck monitoring
- ECO-Drive and fuel management
- Productivity counter management

The following functions are optional:

- Electronic weight scale
- Mini-wheel steering
- Mini-lever steering
- Auto engine shut-down
- Auto parking brake
- Auto tilt-to-zero of lift mast
- Data logging of alarms and errors
- Remote Access Service (via GSM)
- Drive speed limitation (unloaded/loaded)
- Driver log-in (20 drivers)

NearGuard warning system

The award-winning NearGuard warning system is based on Radio Frequency Identification Detection (RFID) technology. The system consists of 2–4 receivers mounted on the lift truck and RFID tags attached to obstacles and/or employees working in the lift truck's operating area. When the lift truck is driven in close proximity to a tagged obstacle or employee, the driver sees a flashing warning indicator on the EMC control system's color display. NearGuard brings a powerful new dimension to lift truck safety and infrastructure protection.

Tire pressure monitor

Under-inflated tires can increase fuel consumption by as much as 15% while impairing stability and drivability. Our tire pressure monitor 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 lift truck is in use, the system discharges in three ways: manually from inside the cabin; manually from outside via a mudguard trigger; automatically by sensors in the engine compartment. When the truck 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 lift truck
- Camera Supervision System: can be mounted as a reversing camera on the rear of the lift truck, or as a forward camera mounted on e.g. the mast

1 EMC Master monitor

2 TURBO 2 air filter for engine, 2-stage cyclone heavy-duty filter with indicator

3 Tire pressure monitor

4 Additional lamps on console, choose between Halogen, Xenon and LED lamps. You can have up to 10 extra lamps

5 Reverse camera display

6 Choose between hydraulic servo and electronic servo joystick

For a complete list of standard vs. optional equipment, please see page 14.

1



2



3



4



5





Getting the job done right

ATTACHMENTS

For empty container handling



ELME 588-TB single stacking spreader

Telescopic sidelift spreader for empty ISO containers with capacity up to 9 tons. Strong and well-proven single beam spreader design, two floating heads (± 70 mm) with hydraulic operation and mechanical safety locking. Hydraulic extension with 2 cylinders (20–40 ft), large sideshift (± 300 mm) with 1 cylinder. Spreader side tilt with floating end-posts (stroke 200 mm / mechanical pile slope). Hydraulic pile slope (± 6 deg) and longer sideshift (± 600 mm) are optional. Four strong LED work lamps (top-bottom/left-right).



ELME 584-LB double stacking spreader

Telescopic sidelift spreader for single and double stacking of empty ISO containers with capacity up to 10 tons. Strong and well-proven single beam spreader design, with two fixed horizontal lifting hooks and two hydraulic side clamps with safety locking and sensors. Same extension 20–40 ft, large sideshift, side tilt with vertical floating end-posts (mechanical pile slope). Hydraulic pile slope (± 6 deg) and longer sideshift (± 600 mm) are optional. Four strong LED work lamps.

For laden container handling

ELME 818 gantry-type spreader

Telescopic toplift spreader for laden ISO containers with capacity up to 45 tons. Strong and well-proven parallel double beam spreader design, pendular twistlock system (± 10 mm) with hydraulic operation and mechanical safety locking. Hydraulic cylinder extension (20–40 ft), large sideshift (± 200 mm), reach in/out (0–240 mm) and slew left/right (± 6 deg). Spreader side tilt with stroke of ± 5 deg (MPS mechanical pile slope) and 4 lift eyes included for slings (45 tons). Hydraulic pile slope HPS is optional (± 6 deg). The spreader frame and the end beams are of strong heavy-duty design. Weight 817-MPS/HPS = appr. 9.3/10.3 tons.





ELME 582-LS double stacking spreader

Telescopic sidelif spreader for single and double stacking of empty ISO containers with capacity up to 10 tons. Strong and well-proven single beam spreader design, with two pairs of horizontal twistlocks and safety locking with sensors. The lower twistlock pair lifts the lower container and the upper twistlock pair lifts the upper container, each twistlock pair with safety locking and sensors. The upper pair has a retract stroke of 110 mm (4,3") for alignment of the upper container. Same extension 20–40 ft, large sideshift, side tilt with vertical floating end-posts. Hydraulic pile slope (± 6 deg) and longer sideshift (± 600 mm) are optional. Four strong LED work lamps.



EQUIPMENT

For all Konecranes container lift trucks

STANDARD EQUIPMENT

TRUCK BODY

Box-type chassis

- Strong box profiles and cross-members
- Thick steel plate reinforcement, both front and rear
- Empty handlers: safe, ergonomic access steps and hand rails LHS
- Empty handlers: extra high tilt cylinder fixtures on mast and rear of chassis
- Empty handlers: lifting eyes, front in mast and rear in steer axle stops
- Laden handlers: safe, ergonomic access steps and hand rails LHS+RHS
- Laden handlers: high tilt cylinder fixtures on mast and mid of chassis
- Laden handlers: lifting eyes, front in mast and rear on top of counter weight

Standard counter weights and stability

- Empty handlers: raised 875 mm / middle of chassis position (ECB 80)
- Empty handlers: low / rear of chassis position (ECB 90-100)
- Laden handlers: low / front of chassis position (37 G3-52 G4)
- Laden handlers: raised 840 mm / middle of chassis position (37 G4S-52 G5S)
- Steel mudguards

Standard colors:

- Chassis, tanks, mudguards and rear: seagreen NCS S2555 B30G
- Mast, carriage, spreader and axles: black RAL 7021
- Cabin and engine hood: light grey RAL 70335

STEERING AXLE

- Smooth power steering with double-acting cylinder
- Wide steering angles providing small turning radius

DRIVE AXLE

- Empty handlers: Kessler D81
- Laden handlers: Kessler D102 (37G-45G) / Kessler D106 (52G)
- Wide axles with 2-stage hub reduction and differential
- Oil-cooled, maintenance-free wet disc brakes

DIESEL ENGINE

See technical info chart, certified for EU stage 2 / EPA Tier 2

- Certified for EU stage 2, 3A, 3B / EPA Tier 2, 3, 4i
- Low-emission
- Clean, powerful, fuel-efficient with CanBus controls

Engine air filter, 2-stage type

TRANSMISSION

- Empty handlers: DANA TE-17 (3+3 gears)
- Laden handlers: DANA TE-27 (4+4 gears)
- Fully-automatic, softshift
- Torque converter, smooth powershift, declutch, reverse protection, CanBus controls

COOLING SYSTEM

Tropical, multi-radiator

- Radiators for engine water, air for intercooler, oil for transmission
- Oil cooling / flushing for brakes

HYDRAULIC SYSTEM

Load-sensing, power-on-demand

- Smooth, accurate, high-speed lifting and lowering
- Variable piston pumps with intelligent control
- Leak-free ORFS couplings (O-ring) for entire truck
- Shock-absorbing lift mast accumulator (models ECB 90-100)
- Large oil tanks with return line filters (12 microns)

ELECTRICAL SYSTEM 24V

Alternator standard size 55–110 Ah (see engine chart)

OPTIONAL EQUIPMENT

TRUCK BODY

Extra counter weights for increased stability

Empty handlers ECB 90-100: raised rear cabin position, 1200 mm higher than standard (cab roof 5100 mm)

Laden handlers 37 G3/4, 45 G3/4, 52 G3/4: raised front cabin position, 400 or 700 mm higher than standard

Different mud flap models, front and rear

Extra chassis mirrors

Slip protection: strips or aluminum plates

Fire extinguisher on truck body or inside cabin

Fire fighting system for driveline compartment (semi-automatic)

Galvanized storage boxes with lid (on bottom step)

Custom colour painting, stickers, customer logos

STEERING AXLE

Wheel nut protection and steering cylinder spacers

DRIVE AXLE

Laden handlers 37G-45G: Kessler D106 extra strength

DIESEL ENGINE

Empty handlers: Volvo and Cummins (147–185 kW / 700–1180 Nm)

Laden handlers: Volvo, Scania and Cummins (256–294 kW / 1640–2157 Nm)

Certified for EU stage 2, 3A, 3B / EPA Tier 2, 3, 4i

Low-emission

Clean, powerful, fuel-efficient with CanBus controls

Engine air filter Turbo II, 2-stage cyclone type

TRANSMISSION

Empty handlers: ZF 3WG-171 (3+3 gears), ZF 4WG-191 (4+3 gears)

Laden handlers: DANA TE-32 (4+4 gears), ZF 4WG-261 (4+3 gears)

Fully-automatic, softshift

Torque converter, smooth powershift, declutch, reverse protection, CanBus controls

COOLING SYSTEM

Extra radiator / cooling circuit for hydraulic system

HYDRAULIC SYSTEM

Shock-absorbing lift mast accumulator (models ECB 80 / 37G-52G)

High-pressure filters (12 um)

HLL hydraulic longlife filters (3 um)

Hydraulic oil cooling circuit for working hydraulics

ELECTRICAL SYSTEM 24V

Bigger alternator 80–150 Ah (see engine chart)

Reverse alarm (beeping)

NearGuard RFID warning system (receiver and transmitters)

NATO starting aid contact

Built-in battery charger

Pre-heater for engine, transmission, hydraulics and cabin

Power connections 400V/3-phase for multiple preheaters

STANDARD EQUIPMENT

LIGHTS

Full road lighting LED: blinkers, brake lights, tail lights, position lights
2 x LED front lights on mudguard
2 x LED reverse lights on cabin (ECB 80 - 100) / counter weight (37G - 52G)
2 x LED work lights in lift mast
4 x LED work lights on spreader (ECB 80 - 100)
2 x LED work lights on spreader (37G - 52 G)

CABIN

ErgoCab size large (L), two doors
L x W x H = 1580 x 1450 x 1620 mm
Spacious, comfortable, excellent ergonomics
Excellent visibility: no front corner posts

Powerful heating and cooling unit

Electrical connection 24V (1 x in cab roof RHS)

Three windshield wipers/washers
Adjustable seat, seat belt, steering wheel

Joystick (hydraulic servo)

OPTIONAL EQUIPMENT

LIGHTS

Lamp console on cabin roof: up to 10 work lamps and 2 warning beacons
Extra work lights: Halogen (70 W), Xenon (3250 Lum), or LED (2900 Lum)
LED warning beacons: cabin roof, lamp console, mast, rear or other position
LED strobe warning flash lights: front, rear or other position

CABIN

ErgoCab size extra-large (XL)
L x W x H = 1655 x 1450 x 1720 mm (longer and higher)

Extra mirrors inside cabin
Reverse and front cameras with 6.7" display (MOTEC)
Air conditioning or climate control unit (steplless fan speed)
Extra electric cabin heater 220V (DEFA)
Extra diesel-powered cabin heater (Webasto)
Extra electrical connections 24V (cab roof or front panel RHS)
Extra electrical connections 12V (cab roof or front panel RHS)
Interval wiper speed switches: front, roof and rear windows
Pneumatic compressor horn: extra button or on joystick
Various compressor seats: BEGE, ISRI, Grammer
Additional seat dampening: single or double
Two-point or three-point seat belt
Seat heating
Extra trainer's seat, leather, fully-foldable LHS
Joystick (electronic servo / auto throttle)
Tire pressure monitor: cabin display, 6 tire sensors
Sun blinds: front, roof or rear windows, fixed or adjustable
Alcohol lock / start-up prohibitor (Draeger)
Reverse alarm (beeping)
Universal mounting system for RHS for A4/A5 writing pad, keyboard, computer monitor, com radio and reading lamp
CD player / radio / MP3 player with dual loudspeakers

MACHINE CONTROL

Intelligent machine control with EMC Master Display: MD3, size 3.5"
Monitoring of engine, transmission, hydraulic system, service, hydraulic joystick, counters and info
EMC 106: Monitoring (diagnostics/parameters/settings)
EMC 123: ECO-Drive (fuel consumption, saving, settings)
EMC 125: DATA-Log (storage of alarms and errors)

MACHINE CONTROL

Display: MDL2, size 6.5"

EMC 102: Lever steering (with spring return to zero)
EMC 103: Lever steering (no spring return to zero)
EMC 104: Mini-wheel steering (speed progressive steer function)
EMC 105: Mini-wheel steering (not progressive steer function)
EMC 107: Electronic weight scale (resolution 0.1 ton)
EMC 112: Auto engine shut-down timer
EMC 114: Electronic servo joystick (auto throttle)
EMC 122: Drive speed settings (on/off, programmable)
EMC 124: Driver log-in (up to 20 drivers)
EMC 126: GSM remote access
NearGuard RFID warning system (receiver and transmitters)

LIFTING MASTS

High-speed, wide, high stability
Only two hydraulic hoses and one cable over top of mast

LIFTING MASTS

SPREADERS

Empty handlers: for single lifting ELME 588TB with 2 vertical twistlocks (ECB 80-90)
20-40 ft stops
MPS Mechanical Pile Slope 200 mm
Sideshift ±300 mm
Empty handlers: for double lifting ELME 584LB with 2 side lifting hooks + 2 side clamps (ECB 100 DS)
20 ft and 40 ft stops
MPS Mechanical Pile Slope 200 mm
Sideshift ±300 mm
Laden handling: ELME 818 with 4 vertical floating twistlocks
20-40 ft stops
MPS Mechanical Pile Slope ±5 deg
Sideshift ±200 mm
Reach in/out 0-240 mm
Slewing ±6 deg

SPREADERS

Extra electrical stops at B7, 30 ft (only single stacking)
HPS Hydraulic Pile Slope ±6 deg
Larger sideshift ±600 mm (ECB 90-100)
Empty handlers: ELME 582LS with 2+2 side twistlocks (ECB 100 DS)
HPS Hydraulic Pile Slope ±6 deg
Extra stops at B7, 30 ft
Larger sideshift ±400 mm

SERVICE AND PARTS

Regular warranty 12 months / 2000 hours

SERVICE AND PARTS

Extended warranty on truck and driveline (18-36 months / 3000-6000 hours)
Spare tires, rims, complete wheels: various brands
Spare part kits: basic, extended, special
Complete filter kits: 2000 hours up to 8000 hours

DRIVELINES

Empty container lift trucks 8 – 10 tons

| MODEL | | SMV 3 - 6 / ECB 80 | | | SMV 3 - 8 / ECB 80 - 90 - 100 DS | | | |
|------------------------------|--------|--------------------|----------------|-----------------|----------------------------------|----------------|----------------|-----------------|
| Engine | Units | | | | | | | |
| Make | | Volvo | Volvo | Volvo | Volvo | Volvo | Cummins | Volvo |
| Model | | TAD-620-VE | TAD-660-VE | TAD-561-VE | TAD-722-VE | TAD-760-VE | QSB-6,7-C260 | TAD-762-VE |
| Emission approval, EU / US | | St 2 / Tier 2 | St 3a / Tier 3 | St 3b / Tier 4i | St 2 / Tier 2 | St 3a / Tier 3 | St 3a / Tier 3 | St 3b / Tier 4i |
| Power / max speed (ISO 3046) | kW/rpm | 147 / 2300 | 147 / 2300 | 155 / 2300 | 180 / 2300 | 184 / 2300 | 201 / 2300 | 185 / 2300 |
| Torque @ speed (ISO 3046) | Nm/rpm | 700 / 1500 | 800 / 1600 | 820 / 1200 | 1050 / 1400 | 1100 / 1500 | 990 / 1500 | 1180 / 1250 |
| Displacement / cylinders | L/-- | 5.7 / 6-cyl | 5.7 / 6-cyl | 4.8 / 4-cyl | 7.2 / 6-cyl | 7.2 / 6-cyl | 6.7 / 6-cyl | 7.2 / 6-cyl |
| Alternator power / capacity | W/Amp | 1540 / 55 | 2240 / 80 | 2800 / 100 | 1540 / 55 | 2240 / 80 | 1960 / 70 | 2800 / 100 |
| Fuel consumption (normal) | L/hour | 7-10 | 6-10 | 5-10 | 8-12 | 7-12 | 7-12 | 7-12 |
| Transmission (make / model) | | DANA TE-17 | DANA TE-17 | ZF 3WG-171 | DANA TE-17 | DANA TE-17 | DANA TE-17 | ZF 4WG-191 |

| MODEL | | SMV 3 - 6 / ECB 80 | | | SMV 3 - 8 / ECB 80 - 90 - 100 DS | |
|--------------------------|-------|--------------------|-----------|-----------|----------------------------------|-----------|
| Transmission | Units | | | | | |
| Make | | DANA | ZF | ZF | DANA | ZF |
| Model | | TE-17300 | 3WG-171 | 4WG-191 | TE-17300 | 4WG-191 |
| Gear shift type | | Automatic | Automatic | Automatic | Automatic | Automatic |
| No. of gears (fwd / rev) | No. | 3 / 3 | 3 / 3 | 3 / 3 | 3 / 3 | 4 / 3 |
| Power rating (max) | kW | 200 | 180 | 200 | 200 | 200 |

Laden container lift trucks 33 – 45 tons

| MODEL | | SMV 37 G3 - 52 G5S | | | | | | | |
|------------------------------|--------|--------------------|---------------|----------------|----------------|---------------------------------|---------------------------------|-----------------|-----------------|
| Engine | Units | | | | | | | | |
| Make | | Volvo | Scania | Scania | Cummins | Volvo | Scania | Volvo | Scania |
| Model | | TAD-1340-VE | DC-13-074 | DC-13-076 | QSM-11-C335 | TAD-1360-VE | DC-13-081 | TAD-1361-VE | DC-13-077 |
| Emission approval, EU / US | | St 2 / Tier 2 | St 2 / Tier 2 | St 3a / Tier 3 | St 3a / Tier 3 | St 3b / Tier 4i | St 3b / Tier 4i | St 3b / Tier 4i | St 3b / Tier 4i |
| Power / max speed (ISO 3046) | kW/rpm | 256 / 2100 | 257 / 2100 | 257 / 2100 | 272 / 2100 | 256 / 1900 | 257 / 2100 | 285 / 1900 | 294 / 2100 |
| Torque @ speed (ISO 3046) | Nm/rpm | 1770 / 1250 | 1950 / 1200 | 1640 / 1400 | 1674 / 1000 | 1740 / 1200 | 1950 / 1200 | 1940 / 1000 | 2157 / 1200 |
| Displacement / cylinders | L/-- | 12.8 / 6-cyl | 12.7 / 6-cyl | 12.7 / 6-cyl | 10.8 / 6-cyl | 12.8 / 6-cyl | 12.7 / 6-cyl | 12.8 / 6-cyl | 12.7 / 6-cyl |
| Alternator power / capacity | W/Amp | 3080 / 110 | 2800 / 100 | 2800 / 100 | 1960 / 70 | 3080 / 110 | 2800 / 100 | 3080 / 110 | 2800 / 100 |
| Fuel consumption (normal) | L/hour | 12-18 | 12-18 | 12-18 | 12-18 | 12-18 | 12-18 | 12-18 | 12-18 |
| Transmission (make / model) | | DANA TE-27 | DANA TE-27 | DANA TE-27 | DANA TE-27 | DANA TE-27 (opt. ZF 4WG-261) | DANA TE-27 (opt. ZF 4WG-261) | DANA TE-32 | DANA TE-32 |

| MODEL | | SMV 37 G3 - 52 G5S | | | |
|--------------------------|-------|--------------------|-----------|-----------|-----------|
| Transmission | Units | | | | |
| Make | | DANA | ZF | DANA | ZF |
| Model | | TE-27400 | 4WG-261 | TE-32400 | 4WG-311 |
| Gear shift type | | Automatic | Automatic | Automatic | Automatic |
| No. of gears (fwd / rev) | No. | 4 / 4 | 4 / 3 | 4 / 4 | 4 / 3 |
| Power rating (max) | kW | 270 | 280 | 325 | 330 |

Empty container handlers

Single stacking
3-6 high
up to 8 tons



Single stacking
5-8 high
up to 9 tons



Double stacking
4-8 high
up to 10 tons



| MODEL NAME | CAPACITY | WHEELBASE |
|--------------|-------------------|-----------|
| SMV 3 ECB 80 | 8 tons at 1220 mm | 3750 mm |
| SMV 4 ECB 80 | 8 tons at 1220 mm | 3750 mm |
| SMV 5 ECB 80 | 8 tons at 1220 mm | 3750 mm |
| SMV 6 ECB 80 | 8 tons at 1220 mm | 3750 mm |

| MODEL NAME | CAPACITY | WHEELBASE |
|----------------|-------------------|-----------|
| SMV 5/6 ECB 90 | 9 tons at 1220 mm | 4500 mm |
| SMV 6/7 ECB 90 | 9 tons at 1220 mm | 4500 mm |
| SMV 7/8 ECB 90 | 9 tons at 1220 mm | 4500 mm |

| MODEL NAME | CAPACITY | WHEELBASE |
|---------------------|--------------------|-----------|
| SMV 4/5 ECB 100 DS* | 10 tons at 1220 mm | 4500 mm |
| SMV 5/6 ECB 100 DS* | 10 tons at 1220 mm | 4500 mm |
| SMV 6/7 ECB 100 DS* | 10 tons at 1220 mm | 4500 mm |

*DS = double-stacking spreader

Laden container handlers

Low cabin
3-4 high
33-35 tons



| MODEL NAME | CAPACITY | WHEELBASE |
|--------------|----------------------------|-----------|
| SMV 37 G3-G4 | 35/33 tons at 1490/1730 mm | 5000 mm |

High/mid cabin
4 high
33-35 tons



| MODEL NAME | CAPACITY | WHEELBASE |
|------------|----------------------------|-----------|
| SMV 37 G4S | 35/33 tons at 1490/1730 mm | 5000 mm |

Low cabin
3-4 high
41-45 tons



| MODEL NAME | CAPACITY | WHEELBASE |
|--------------|----------------------------|-----------|
| SMV 45 G3-G4 | 43/41 tons at 1490/1730 mm | 5500 mm |
| SMV 52 G3-G4 | 45/43 tons at 1490/1730 mm | 6000 mm |

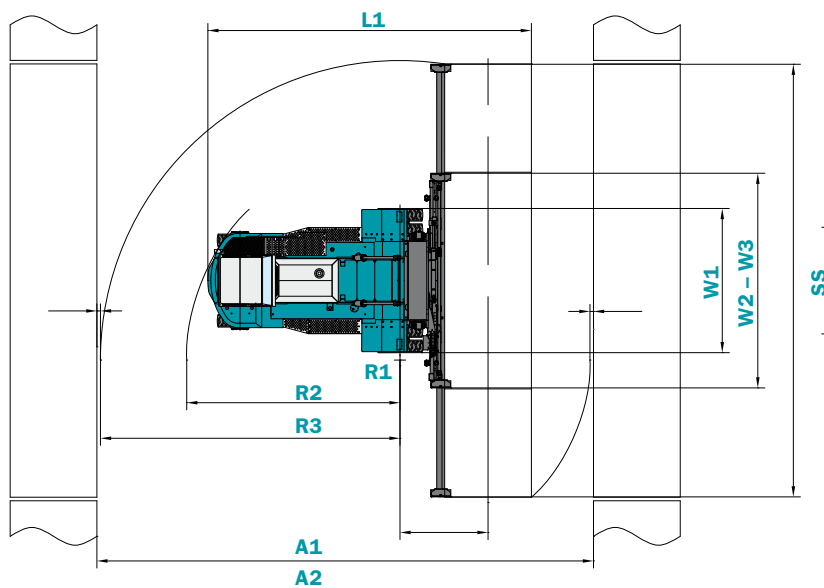
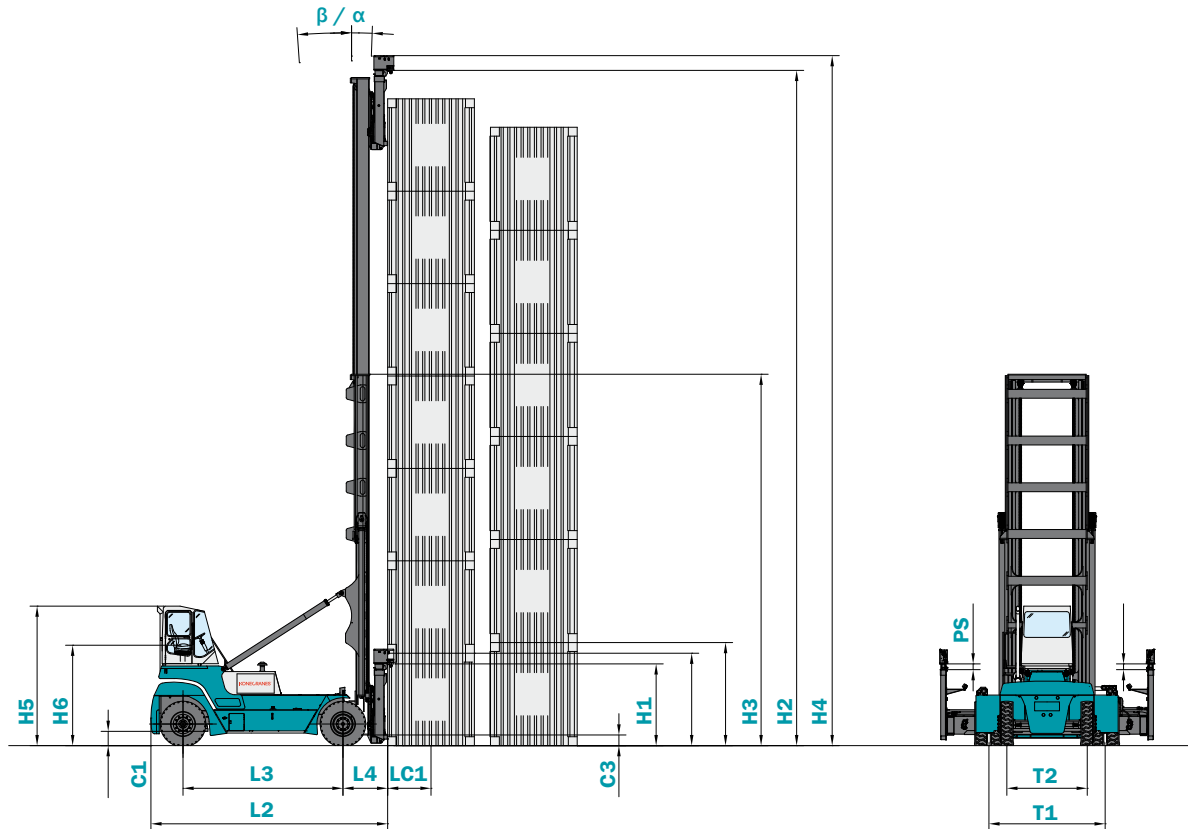
High/mid cabin
4-5 high
41-45 tons



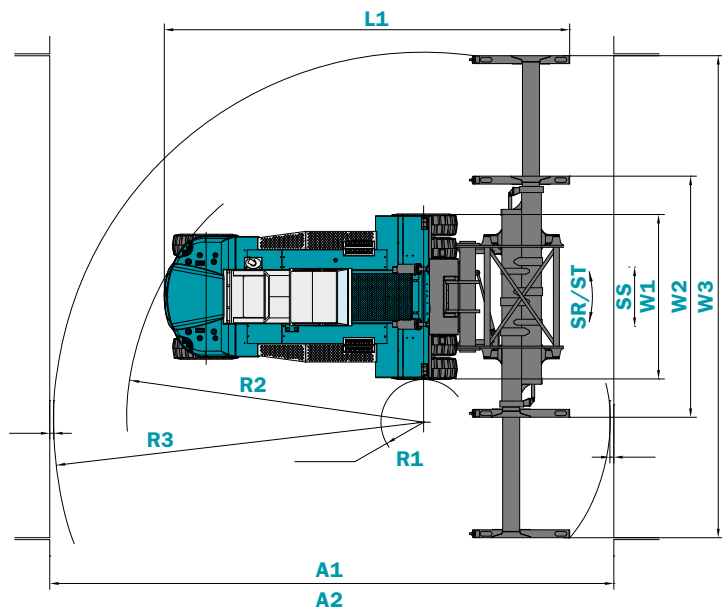
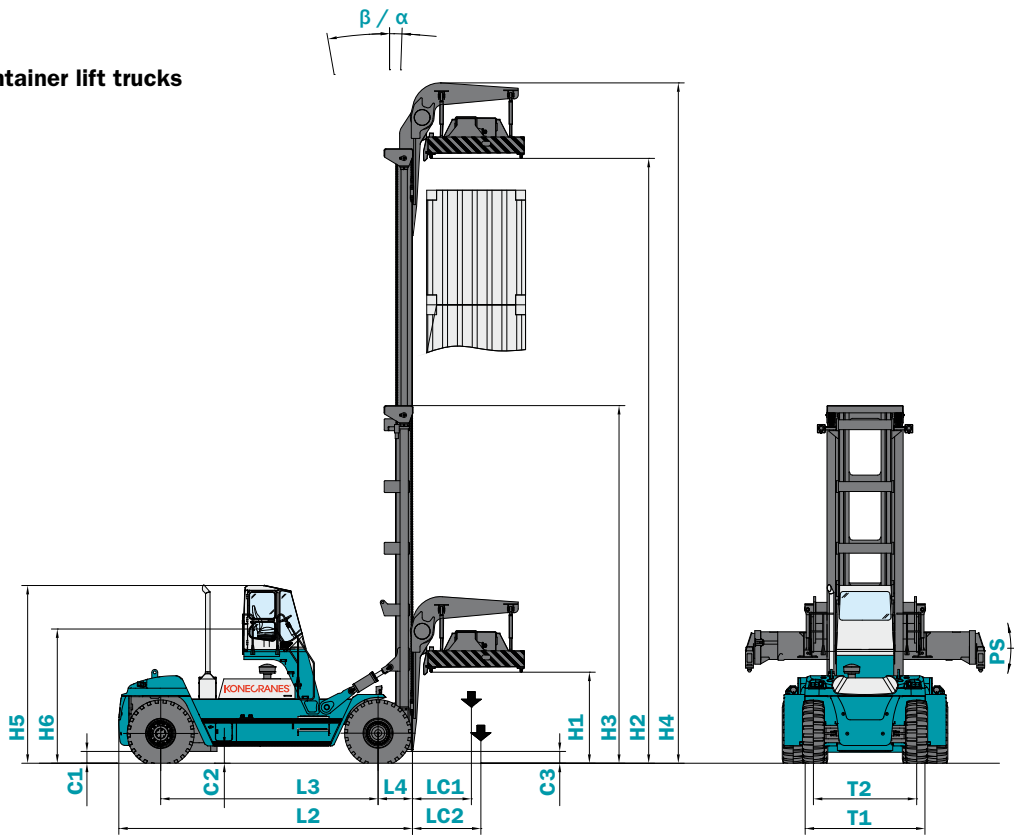
| MODEL NAME | CAPACITY | WHEELBASE |
|----------------|----------------------------|-----------|
| SMV 45 G4S-G5S | 42/41 tons at 1490/1730 mm | 5500 mm |
| SMV 52 G4S-G5S | 45/43 tons at 1490/1730 mm | 6000 mm |

DIMENSION MEASUREMENT IDENTIFIERS

Empty container lift trucks



Laden container lift trucks



TECHNICAL DATA

Empty container lift trucks, 8 – 10 tons

| MODEL | | | SMV 3 ECB 80 | SMV 4 ECB 80 | SMV 5 ECB 80 | SMV 6 ECB 80 | |
|---|--|-------------------|--|---|---------------------|---------------------|----------------------------|
| LIFTING DATA | Dimensions | Identifier | Units | | | | |
| | Lifting capacity / load center | LC1 | kg/mm | 8000 / 1220 | 8000 / 1220 | 8000 / 1220 | 8000 / 1220 (up to 5 high) |
| | Stacking height, single mode (9'6" / 8'6") | | | 3 x 9'6" / 3 x 8'6" | 4 x 9'6" / 4 x 8'6" | 5 x 9'6" / 5 x 8'6" | 5 x 9'6" / 6 x 8'6" |
| | Stacking height, double mode (9'6" / 8'6") | | | - | - | - | - |
| | Spreader type, telescopic, locking | | | Vertical twistlocks, 20-40 ft, safety locking, LED lamps | | | |
| | Lost load center | L4 | mm | 1095 | 1095 | 1095 | 1095 |
| Wheelbase | L3 | mm | 3750 | 3750 | 3750 | 3750 | |
| WEIGHT | Service weight | | kg | 26900 | 28000 | 28800 | 29000 |
| | Axle pressure front, unloaded / at rated load | | kg | 14600 / 27500 | 15700 / 28600 | 16700 / 29600 | 17000 / 26700 |
| | Axle pressure rear, unloaded / at rated load | | kg | 12300 / 7400 | 12300 / 7400 | 12100 / 7200 | 12000 / 8300 |
| WHEELS | Tire type | | | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| | Tire dimensions / ply rating, front & rear | | Inch | 12.00 x 20" / PR 20 | 12.00 x 20" / PR 20 | 12.00 x 20" / PR 20 | 12.00 x 20" / PR 20 |
| | Rim dimensions, front & rear | | Inch | 8.00 x 20" | 8.00 x 20" | 8.00 x 20" | 8.00 x 20" |
| | Tire pressure, front / rear | | MPa | 1.0 / 1.0 | 1.0 / 1.0 | 1.0 / 1.0 | 1.0 / 1.0 |
| | Number of wheels, front / rear (X = driven) | | | 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 |
| | Track width, front / rear | T1 / T2 | mm | 2843 / 2036 | 2843 / 2036 | 2843 / 2036 | 2843 / 2036 |
| DIMENSIONS | Mast tilt, backward / forward | β / α | deg | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 |
| | Lifting height, min - max | H1 - H2 | mm | 2255 - 9170 | 2255 - 11920 | 2255 - 14920 | 2255 - 16020 |
| | Mast height, retracted / extended | H3 - H4 | mm | 5145 / 9490 | 6520 / 12240 | 8020 / 15240 | 8570 / 16340 |
| | Truck height over cabin / seat height | H5 - H6 | mm | 2905 - 1815 | 3780 - 2680 | 3780 - 2680 | 3780 - 2680 |
| | Overall length, incl. spreader / container | L1 - L2 | mm | 8080 - 5640 | 8080 - 5640 | 8080 - 5640 | 8080 - 5640 |
| | Drive axle width | W1 | mm | 2500 | 3530 | 3530 | 3530 |
| | Spreader width, min - max | W2 - W3 | mm | 6085 - 12220 | 6085 - 12220 | 6085 - 12220 | 6085 - 12220 |
| | Spreader sideshift | SS | mm | ± 300 | ± 300 | ± 300 | ± 300 |
| | Mechanical Pile Slope (side tilt / no power) | PS | mm | 0 - 200 | 0 - 200 | 0 - 200 | 0 - 200 |
| | Ground clearance, mast / steering axle | C1 / C3 | mm | 250 / 200 | 250 / 200 | 250 / 200 | 250 / 200 |
| | Aisle width (with 20 ft / 40 ft container) | A1 / A2 | mm | 8965 / 13700 | 8965 / 13700 | 8965 / 13700 | 8965 / 13700 |
| Turning radius, inner | R1 | mm | 100 (±100) | 100 (±100) | 100 (±100) | 100 (±100) | |
| Turning radius, outer 20 ft / outer 40 ft | R2 / R3 | mm | 5055 / 7985 | 5055 / 7985 | 5055 / 7985 | 5055 / 7985 | |
| PERFORMANCE | Drive speed forward, unloaded / at rated load | | km/h | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 |
| | Drive speed reverse, unloaded / at rated load | | km/h | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 |
| | Lifting speed, unloaded / at 70% of rated load | | m/s | 0.52 / 0.45 | 0.52 / 0.45 | 0.52 / 0.45 | 0.52 / 0.45 |
| | Lowering speed, unloaded / at rated load | | m/s | 0.55 / 0.58 | 0.55 / 0.58 | 0.55 / 0.58 | 0.55 / 0.58 |
| | Gradeability, at rated load, 0/2 km/h | | % / % | 26 / 22 | 26 / 22 | 26 / 22 | 26 / 22 |
| | Towing power, at rated load, 0/2 km/h | | kN / kN | 107 / 85 | 107 / 85 | 107 / 85 | 107 / 85 |
| DRIVELINE | Engine power (min - max) | EU2 / EU3b | kW | 147 - 201 | 147 - 201 | 147 - 201 | 147 - 201 |
| | Engine torque (min - max) | EU2 / EU3b | Nm | 700 - 1180 | 700 - 1180 | 700 - 1180 | 700 - 1180 |
| | Transmission, gears forward + reverse | | | DANA 3+3 / ZF 3+3 | DANA 3+3 / ZF 3+3 | DANA 3+3 / ZF 3+3 | DANA 3+3 / ZF 3+3 |
| | Transmission type, function, shifting | | | Fully automatic, torque convertor, reverse protection, powershift | | | |
| | Drive axle model | | | Kessler D81 with differential | | | |
| | Driving brake system, type | | | Oil-cooled multiple wet disk brakes (WDB) | | | |
| Parking brake system, type | | | Dry single disc / spring release | | | | |
| Steering system / steering axle type | | | Hydraulic power steering / HD axle with double-acting cylinder | | | | |
| OTHERS | Load-sensing hydraulics / power-on-demand | | | Yes / yes | Yes / yes | Yes / yes | Yes / yes |
| | Hydraulic oil pressure, mast / spreader | | MPa | 22 / 15 | 22 / 15 | 23 / 15 | 24 / 15 |
| | Diesel / hydraulic tank volumes | | Lit | 243 / 272 | 243 / 272 | 243 / 272 | 243 / 272 |
| | Noise level inside cab (LM) DIN 45635 | EU2 / EU3b | dB(A) | 68 / 66 | 68 / 66 | 68 / 66 | 68 / 66 |
| | Noise level inside cab (LpAZ) EN 12053 | | dB(A) | 72 | 72 | 72 | 72 |
| Noise level outside (LWA) 2000/14/EC | | dB(A) | 109 | 109 | 109 | 109 | |

NOTE 1. Other capacities available upon request

NOTE 2. Additional container stops can be provided at 24 ft, 30 ft and 35 ft (only for single-stacking)

NOTE 3. For models ECB 90-100, Hydraulic Pile Slope ± 6 deg and increased sideshift to ± 600 mm are available

NOTE 4. For models ECB 90, 14.00 x 24" / PR 24 tires are available

NOTE 5. For available driveline combinations, see the driveline chart and the latest factory information

NOTE 6. SMV 6 ECB 80 lifts 8000 kg up to 5 high and 6000 kg up to 6 high

| SMV 5/6 ECB 90 | SMV 6/7 ECB 90 | SMV 7/8 ECB 90 | SMV 4/5 ECB 100 DS | SMV 5/6 ECB 100 DS | SMV 6/7 ECB 100 DS |
|--|---------------------|---------------------|---|-------------------------|-------------------------|
| 9000 / 1220 | 9000 / 1220 | 9000 / 1220 | 10000 / 1220 | 10000 / 1220 | 10000 / 1220 |
| 5 x 9'6" / 6 x 8'6" | 6 x 9'6" / 7 x 8'6" | 7 x 9'6" / 8 x 8'6" | 4 x 9'6" / 5 x 8'6" | 5 x 9'6" / 6 x 8'6" | 6 x 9'6" / 7 x 8'6" |
| - | - | - | 1+4 x 9'6" / 1+5 x 8'6" | 1+5 x 9'6" / 1+6 x 8'6" | 1+6 x 9'6" / 1+7 x 8'6" |
| Vertical twistlocks, 20-40 ft, safety locking, LED lamps | | | Lift hooks & hydr. side clamps, 20-40 ft, safety locking, LED lamps | | |
| 1195 | 1195 | 1195 | 1255 | 1255 | 1255 |
| 4500 | 4500 | 4500 | 4500 | 4500 | 4500 |
| 34500 | 36400 | 38400 | 36200 | 37500 | 39500 |
| 21800 / 35600 | 23100 / 36900 | 24500 / 38300 | 21400 / 36900 | 22800 / 38300 | 24200 / 39700 |
| 12700 / 7900 | 13300 / 8500 | 13900 / 9100 | 14800 / 9300 | 14700 / 9200 | 15300 / 9800 |
| Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| 12.00 x 24" / PR 20 | 12.00 x 24" / PR 20 | 12.00 x 24" / PR 20 | 14.00 x 24" / PR 24 | 14.00 x 24" / PR 24 | 14.00 x 24" / PR 24 |
| 10.00 x 24" / HD | 10.00 x 24" / HD | 10.00 x 24" / HD | 10.00 x 24" / HD | 10.00 x 24" / HD | 10.00 x 24" / HD |
| 0.9 / 0.9 | 0.9 / 0.9 | 0.9 / 0.9 | 0.9 / 0.9 | 0.9 / 0.9 | 0.9 / 0.9 |
| 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 |
| 3270 - 2262 | 3270 - 2262 | 3270 - 2262 | 3286 - 2290 | 3286 - 2290 | 3286 - 2290 |
| 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 | 2 / 4 |
| 2245 - 16325 | 2245 - 18925 | 2245 - 21525 | 2310 - 13870 | 2310 - 16470 | 2310 - 19070 |
| 9130 / 16645 | 10430 / 19245 | 11730 / 21845 | 7890 / 14510 | 9190 / 17110 | 10490 / 19710 |
| 3900 - 2800 | 3900 - 2800 | 3900 - 2800 | 3965 - 2865 | 3965 - 2865 | 3965 - 2865 |
| 9045 - 6600 | 9045 - 6600 | 9045 - 6600 | 9100 - 6660 | 9100 - 6660 | 9100 - 6660 |
| 4060 | 4060 | 4060 | 4100 | 4100 | 4100 |
| 6085 - 12220 | 6085 - 12220 | 6085 - 12220 | 6565 - 12700 | 6565 - 12700 | 6565 - 12700 |
| ± 300 | ± 300 | ± 300 | ± 300 | ± 300 | ± 300 |
| 0 - 200 | 0 - 200 | 0 - 200 | 0 - 200 | 0 - 200 | 0 - 200 |
| 280 / 325 | 280 / 325 | 280 / 325 | 345 / 390 | 345 / 390 | 345 / 390 |
| 9925 / 13920 | 9925 / 13920 | 9925 / 13920 | 9980 / 13960 | 9980 / 13960 | 9980 / 13960 |
| 200 (±100) | 200 (±100) | 200 (±100) | 200 (±100) | 200 (±100) | 200 (±100) |
| 6000 / 8420 | 6000 / 8420 | 6000 / 8420 | 6000 / 8420 | 6000 / 8420 | 6000 / 8420 |
| 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 |
| 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 | 25 / 25 |
| 0.68 / 0.61 | 0.68 / 0.61 | 0.68 / 0.61 | 0.68 / 0.61 | 0.68 / 0.61 | 0.68 / 0.61 |
| 0.60 / 0.60 | 0.60 / 0.60 | 0.60 / 0.60 | 0.60 / 0.60 | 0.60 / 0.60 | 0.60 / 0.60 |
| 38 / 29 | 37 / 28 | 37 / 28 | 33 / 24 | 33 / 24 | 32 / 23 |
| 168 / 133 | 168 / 133 | 168 / 133 | 153 / 120 | 153 / 120 | 153 / 120 |
| 180 - 201 | 180 - 201 | 180 - 201 | 180 - 201 | 180 - 201 | 180 - 201 |
| 990 - 1180 | 990 - 1180 | 990 - 1180 | 990 - 1180 | 990 - 1180 | 990 - 1180 |
| DANA 3+3 / ZF 4+3 | DANA 3+3 / ZF 4+3 | DANA 3+3 / ZF 4+3 | DANA 3+3 / ZF 4+3 | DANA 3+3 / ZF 4+3 | DANA 3+3 / ZF 4+3 |
| Yes / yes | Yes / yes | Yes / yes | Yes / yes | Yes / yes | Yes / yes |
| 17 / 15 | 17.5 / 15 | 18.5 / 15 | 17.5 / 15 | 18.5 / 15 | 19.5 / 15 |
| 400 / 430 | 400 / 430 | 400 / 430 | 400 / 430 | 400 / 430 | 400 / 430 |
| 70 / 68 | 70 / 68 | 70 / 68 | 70 / 68 | 70 / 68 | 70 / 68 |
| 75 | 73 - 75 | 75 | 75 | 75 | 75 |
| 110 | 110 | 110 | 110 | 110 | 110 |

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TECHNICAL DATA

Laden container lift trucks, 33 – 45 tons

| MODEL | | | SMV 37 G3 | SMV 37 G4 (G4S*) | SMV 45 G3 | SMV 45 G4 (G4S*) | |
|--|---|---------------------|---|---|---------------------------|--------------------------------------|---------------------------|
| LIFTING DATA | Dimensions | Identifier | Units | | | | |
| | Lift capacity / load center | LC1 | kg/mm | 35000 / 1490 | 35000 / 1490 | 43000 / 1490 | 43000 / 1490 |
| | Lift capacity / load center | LC2 | kg/mm | 33000 / 1730 | 33000 / 1730 | 41000 / 1730 | 41000 / 1730 |
| | Stacking height, single mode (9'6" / 8'6") | | | 3 x 9'6" / 3 x 8'6" | 4 x 9'6" / 4 x 8'6" | 3 x 9'6" / 3 x 8'6" | 4 x 9'6" / 4 x 8'6" |
| | Spreader type, telescopic, locking | | | Twistlocks, 20-40 ft, safety locking | | Twistlocks, 20-40 ft, safety locking | |
| | Lost load center | L4 | mm | 870 | 870 | 870 | 870 |
| | Wheelbase | L3 | mm | 5000 | 5000 | 5500 | 5500 |
| WEIGHT | Service weight | | kg | 60500 | 61700 | 63300 | 64500 |
| | Axle pressure front, unloaded / at rated load | | kg | 38100 / 89600 | 39300 / 90800 | 38100 / 99600 | 39300 / 100800 |
| | Axle pressure rear, unloaded / at rated load | | kg | 22400 / 5900 | 22400 / 5900 | 25200 / 6700 | 25200 / 6700 |
| WHEELS | Tire type | | | Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| | Tire dimension / ply rating, front & rear | | Inch | 18.00 x 25" / PR 40 | 18.00 x 25" / PR 40 | 18.00 x 25" / PR 40 | 18.00 x 25" / PR 40 |
| | Rim dimensions, front & rear | | Inch | 13.00 x 25" | 13.00 x 25" | 13.00 x 25" | 13.00 x 25" |
| | Tire pressure, front / rear | | MPa | 0.9 / 0.9 | 0.9 / 0.9 | 1.0 / 1.0 | 1.0 / 1.0 |
| | Number of wheels, front / rear (X = driven) | | | 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 |
| | Track width, front / rear | T1 / T2 | mm | 3030 / 2612 | 3030 / 2612 | 3030 / 2612 | 3030 / 2612 |
| DIMENSIONS | Mast tilt, backward / forward | β / α | deg | 2 / 10 | 2 / 10 | 2 / 10 | 2 / 10 |
| | Lifting height, min - max | H1 - H2 | mm | 2300 - 9500 | 2300 - 12400 | 2300 - 9500 | 2300 - 12400 |
| | Mast height, retracted / extended | H3 - H4 | mm | 6150 / 11400 | 7600 / 14300 | 6150 / 11400 | 7600 / 14300 |
| | Truck height over cabin / seat height | H5 - H6 | mm | 3660 - 2560 | 3660 - 2560 (4500 - 3400) | 3660 - 2560 | 3660 - 2560 (4500 - 3400) |
| | Overall length, incl. spreader / container | L1 - L2 | mm | 6930 - 9760 | 6930 - 9760 | 7430 - 10250 | 7430 - 10250 |
| | Drive axle width | W1 | mm | 4160 | 4160 | 4160 | 4160 |
| | Spreader width, min - max | W2 - W3 | mm | 6050 - 12175 | 6050 - 12175 | 6050 - 12175 | 6050 - 12175 |
| | Spreader sideshift | SS | mm | ± 200 | ± 200 | ± 200 | ± 200 |
| | Spreader reach in - out | SR | mm | 0 - 240 | 0 - 240 | 0 - 240 | 0 - 240 |
| | Spreader turn left / right | ST | deg | ± 6 | ± 6 | ± 6 | ± 6 |
| | Mechanical Pile Slope (side tilt / no power) | PS | deg | ± 5 | ± 5 | ± 5 | ± 5 |
| | Ground clearance, mast / mid / steering axle | C1 / C2 / C3 | mm | 300 / 440 / 270 | 300 / 440 / 270 | 300 / 440 / 270 | 300 / 440 / 270 |
| Aisle width (with 20 ft / 40 ft container) | A1 / A2 | mm | 10900 / 14200 | 10900 / 14200 | 11400 / 14300 | 11400 / 14300 | |
| Turning radius, inner | R1 | mm | < 750 | < 750 | < 1100 | < 1100 | |
| Turning radius, outer 20 ft / outer 40 ft | R2 / R3 | mm | 6900 / 9000 | 6900 / 9000 | 7500 / 9350 | 7500 / 9350 | |
| PERFORMANCE | Drive speed forward, unloaded / at rated load | | km/h | 24 / 22 | 24 / 22 | 24 / 22 | 24 / 22 |
| | Drive speed reverse, unloaded / at rated load | | km/h | 24 / 22 | 24 / 22 | 24 / 22 | 24 / 22 |
| | Lifting speed, unloaded / at rated load | | m/s | 0.26 / 0.21 | 0.26 / 0.21 | 0.26 / 0.21 | 0.26 / 0.21 |
| | Lowering speed, unloaded / at rated load | | m/s | 0.40 / 0.40 | 0.40 / 0.40 | 0.40 / 0.40 | 0.40 / 0.40 |
| | Gradeability, at rated load, 0/2 km/h | | % / % | 29 / 22 | 29 / 22 | 29 / 22 | 29 / 22 |
| | Towing power, at rated load, 0/2 km/h | | kN / kN | 315 / 251 | 315 / 251 | 315 / 251 | 315 / 251 |
| DRIVELINE | Engine power (min - max) | EU2 / EU3b | kW | 256 - 294 | 256 - 294 | 256 - 294 | 256 - 294 |
| | Engine torque (min - max) | EU2 / EU3b | Nm | 1640 - 2172 | 1640 - 2172 | 1640 - 2172 | 1640 - 2172 |
| | Transmission, gears forward + reverse | | | DANA 4+4 / ZF 4+3 | DANA 4+4 / ZF 4+3 | DANA 4+4 / ZF 4+3 | DANA 4+4 / ZF 4+3 |
| | Transmission type, function, shifting | | | Automatic, torque convertor, reverse protection, powershift | | | |
| | Drive axle model | | | Kessler D102 with differential | | | |
| | Driving brake system, type | | | Oil-cooled multiple wet disk brakes (WDB) | | | |
| | Parking brake system, type | | | Dry single disc / spring release | | | |
| Steering system / steer axle type | | | Hydraulic power steering / HD axle + double-acting cylinder | | | | |
| OTHERS | Load-sensing hydraulics / power-on-demand | | | Yes / yes | Yes / yes | Yes / yes | Yes / yes |
| | Hydraulic oil pressure, mast/spreader | | MPa | 21 / 15 | 21 / 15 | 22 / 15 | 23 / 15 |
| | Diesel / hydraulic tank volumes | | L | 410 / 480 | 410 / 480 | 510 / 550 | 510 / 550 |
| | Noise level inside cab (LM) DIN 45635 | EU2 / EU3b | dB(A) | 73 / 71 | 73 / 71 | 73 / 71 | 73 / 71 |
| | Noise level inside cab (LpAZ) EN 12053 | | dB(A) | 75 | 75 | 75 | 75 |
| Noise level outside (LWA) 2000/14/EC | | dB(A) | 111 | 111 | 111 | 111 | |

NOTE 1. Other capacities available upon request

NOTE 2. Increased sideshift to ±400 mm is available

NOTE 3. Container guides on one side of spreader are also available

NOTE 4. Four lifting eyes on spreader are standard; extra ones are available

NOTE 5. Additional container stops can be provided at 24 ft, 30 ft and 35 ft (only for single-stacking)

NOTE 6. For available driveline combinations, see the driveline chart and the latest factory information

| SMV 45 G5S | SMV 52 G3 | SMV 52 G4 (G4S*) | SMV 52 G5S |
|---------------------|---|---------------------------|---------------------|
| 42000 / 1490 | 45000 / 1490 | 45000 / 1490 | 45000 / 1490 |
| 41000 / 1730 | 43000 / 1730 | 43000 / 1730 | 43000 / 1730 |
| 5 x 9'6" / 5 x 8'6" | 3 x 9'6" / 3 x 8'6" | 4 x 9'6" / 4 x 8'6" | 5 x 9'6" / 5 x 8'6" |
| | Twistlocks, 20-40 ft, safety locking | | |
| 870 | 970 | 970 | 970 |
| 5500 | 6000 | 6000 | 6000 |
| | | | |
| 67500 | 64300 | 66500 | 69500 |
| 42300 / 102400 | 39800 / 107500 | 41000 / 107500 | 44000 / 107500 |
| 25200 / 7100 | 25500 / 6600 | 25500 / 6600 | 25500 / 7000 |
| | | | |
| Pneumatic | Pneumatic | Pneumatic | Pneumatic |
| 18.00 x 25" / PR 40 | 18.00 x 33" / PR 36 | 18.00 x 33" / PR 36 | 18.00 x 33" / PR 36 |
| 13.00 x 25" | 13.00 x 33" | 13.00 x 33" | 13.00 x 33" |
| 1.0 / 1.0 | 1.0 / 1.0 | 1.0 / 1.0 | 1.0 / 1.0 |
| 4X / 2 | 4X / 2 | 4X / 2 | 4X / 2 |
| 3030 / 2612 | 3030 / 2612 | 3030 / 2612 | 3030 / 2612 |
| | | | |
| 2 / 10 | 2 / 10 | 2 / 10 | 2 / 10 |
| 2300 - 15300 | 2300 - 9500 | 2300 - 12400 | 2300 - 15300 |
| 9050 / 17200 | 6300 / 11400 | 7700 / 14300 | 9220 / 17200 |
| 4500 - 3400 | 3860 - 2780 | 3860 - 2780 (4700 - 3600) | 4700 - 3600 |
| 7430 - 10250 | 8100 - 10950 | 8100 - 10950 | 8100 - 10950 |
| 4160 | 4160 | 4160 | 4160 |
| 6050 - 12175 | 6050 - 12175 | 6050 - 12175 | 6050 - 12175 |
| ± 200 | ± 6 | ± 6 | ± 6 |
| 0 - 240 | 0 - 240 | 0 - 240 | 0 - 240 |
| ± 6 | ± 6 | ± 6 | ± 6 |
| ± 5 | ± 5 | ± 5 | ± 5 |
| 300 / 440 / 270 | 470 / 600 / 400 | 470 / 600 / 400 | 470 / 600 / 400 |
| 11400 / 14300 | 12000 / 14400 | 12000 / 14400 | 12000 / 14400 |
| < 1100 | < 1200 | < 1200 | < 1200 |
| 7500 / 9350 | 8050 / 9400 | 8050 / 9400 | 8050 / 9400 |
| | | | |
| 24 / 22 | 25 / 22 | 25 / 22 | 25 / 22 |
| 24 / 22 | 25 / 22 | 25 / 22 | 25 / 22 |
| 0.26 / 0.21 | 0.26 / 0.21 | 0.26 / 0.21 | 0.26 / 0.21 |
| 0.40 / 0.40 | 0.40 / 0.40 | 0.40 / 0.40 | 0.40 / 0.40 |
| 29 / 22 | 34 / 22 | 34 / 22 | 34 / 22 |
| 315 / 251 | 260 / 214 | 260 / 214 | 260 / 214 |
| | | | |
| 256 - 294 | 256 - 294 | 256 - 294 | 256 - 294 |
| 1640 - 2172 | 1640 - 2172 | 1640 - 2172 | 1640 - 2172 |
| 4 / 4 or 4 / 3 | 4 / 4 or 4 / 3 | 4 / 4 or 4 / 3 | 4 / 4 or 4 / 3 |
| | Automatic, torque convertor, reverse protection, powershift | | |
| | Kessler D106 with differential | | |
| | Oil-cooled multiple wet disk brakes (WDB) | | |
| | Dry single disc / spring release | | |
| | Hydraulic power steering / HD axle + double-acting cylinder | | |
| | | | |
| Yes / yes | Yes / yes | Yes / yes | Yes / yes |
| 24 / 15 | 22 / 15 | 24 / 15 | 24 / 15 |
| 510 / 550 | 550 / 620 | 550 / 620 | 550 / 620 |
| 73 / 71 | 73 / 71 | 73 / 71 | 73 / 71 |
| 75 | 75 | 75 | 75 |
| 111 | 111 | 111 | 111 |



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SERVICE & PARTS

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