

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

**FORK LIFT TRUCKS**

**KONECRANES®**  
Lifting Businesses™

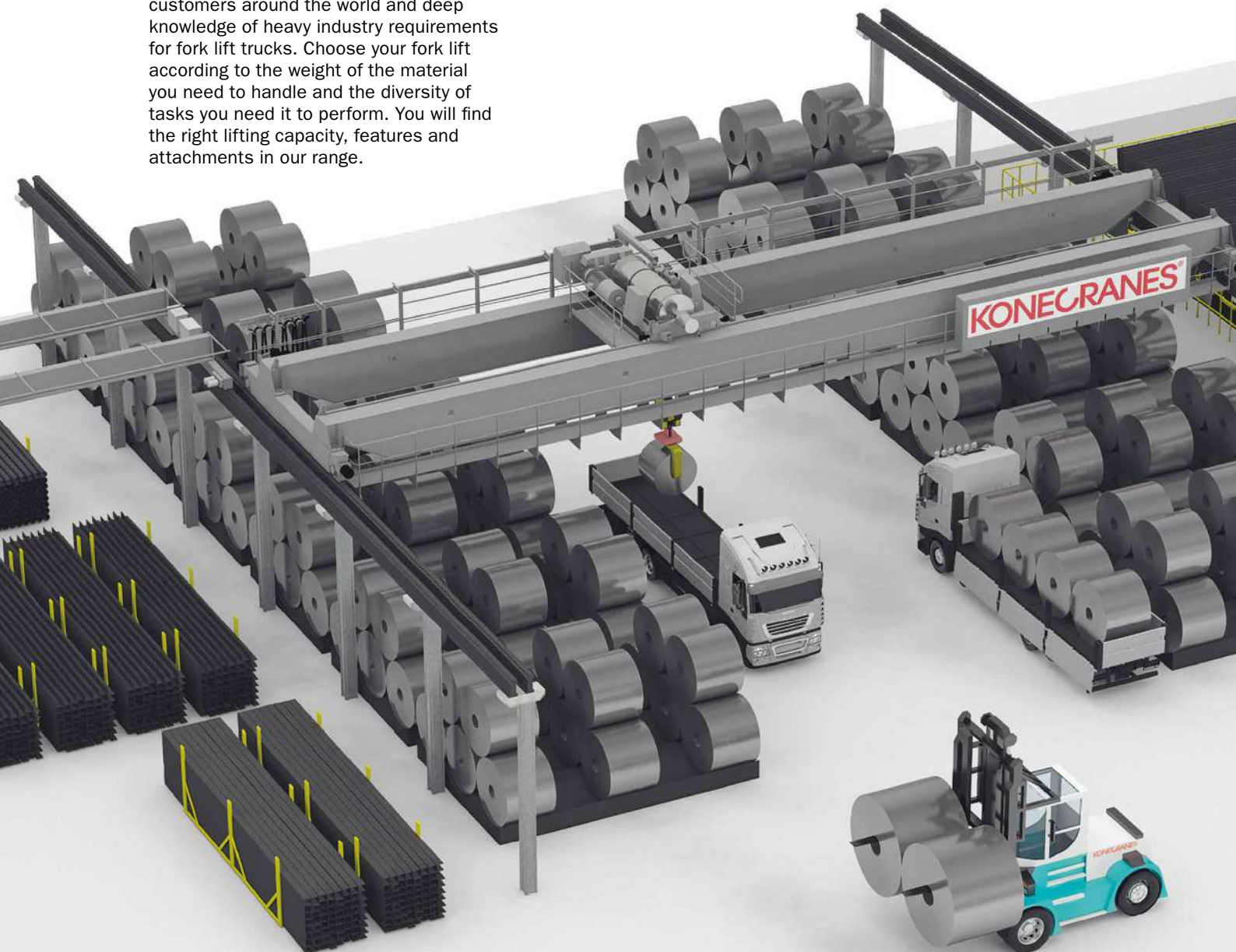
# 10 – 65 tons FORK LIFT TRUCKS WITH HEART



**What are your requirements?**

# THE RIGHT FORK LIFT TRUCK FOR YOUR JOB

Konecranes has hundreds of heavy industry customers around the world and deep knowledge of heavy industry requirements for fork lift trucks. Choose your fork lift according to the weight of the material you need to handle and the diversity of tasks you need it to perform. You will find the right lifting capacity, features and attachments in our range.



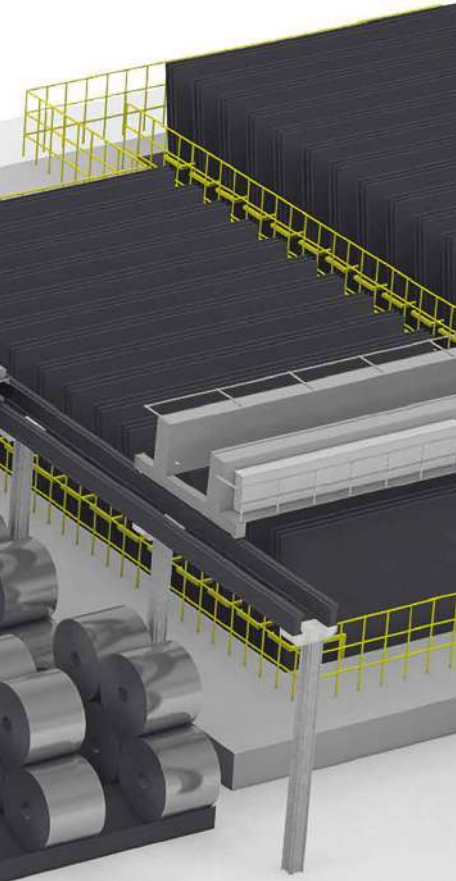
# EXPERIENCE AT YOUR SERVICE

**Konecranes fork lift trucks are remarkably adaptable to industrial material handling. We have a long track record of meeting specialized industrial handling requirements like yours.**

What is your industry? What kind of material do you need to lift and move? Contact us. You'll probably find we have lots of experience in your industry and can provide the ideal fork lift truck.

## Industries we serve

- Steel, aluminum and mining
- Wood and building materials
- Container ports and terminals
- Transport, shipping and logistics
- Pulp and paper
- Concrete, bricks and rock
- Automotive
- General manufacturing
- Oil and gas
- Wind power
- Nuclear
- Waste-to-energy
- Shipyards and marinas

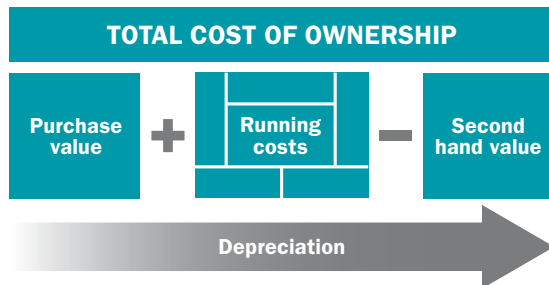


**Made with heart  
in every detail**

# SMARTER WHERE IT MATTERS

**Konecranes has been manufacturing, selling and supporting heavy-duty fork lift trucks for some 60 years. The first truck we ever made and delivered, back in the 1950s, was a fork lift truck. Buy one from us today and you will get the latest technology, the lowest Total Cost of Ownership, and a fork lift truck made with heart.**

We claim the lowest Total Cost of Ownership with our fork 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 fork 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





#### **1 Powerful engines**

Certified low-emission engines provide 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.

#### **2 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.

#### **3 Empower the truck for your operation**

Select the right lifting mast from our wide range. Choose between Duplex (with or without free lift) and Triplex (with free lift).

#### **4 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.

#### **5 Quick-change fork system**

Different forks, coil rams, other attachments. What do you need to handle? Steel, wood, paper, containers? Something extraordinary? We'll provide the right attachment for the work you need to do.

#### **6 Maintenance-free brakes**

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

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

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

#### **8 Intelligent Electronic Machine Control, EMC Master**

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

# Satisfied customers around the world OUT IN THE FIELD

From Sweden to South Africa, from the USA to Uruguay, from Canada to China, Konecranes fork lift trucks are hard at work across an amazing range of applications and industries.



Container handling, United Arab Emirates

Paper roll handling, Finland



Marble rock handling, Italy



Oil and gas handling, Scotland



Pulp and paper handling, Germany



Wood chip handling, Norway



Aluminum handling, Norway



Logistics handling, Australia



Oil and gas handling, Norway



Steel recycling, Finland



Wind power handling, United Arab Emirates



Empty container handling, Germany



# 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 very strong but thin. We have done everything possible to ensure clear sightlines to the key working areas, both in the front, to the sides and to the rear.

You can customize ErgoCab precisely as you require for your container handling operation. Select the joystick, joystick panel, steering wheel, driver's seat and instrumentation that you need. The cabin can be raised from the standard position by 250 up to 700 mm if required.

#### 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 lifting controls.

#### 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 Lifting controls

Available as standard, the lifting levers offer super-smooth touch control at every point of a handling operation.

### 3 Left armrest mini-steering options



Lever steering  
with return



Mini-wheel  
steering



Lever steering  
without return



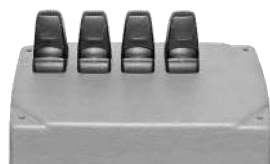
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**6 Right armrest control options**



Electronic servo lifting levers



Hydraulic servo joystick



Electronic servo joystick

## A world of options

# BOOSTING SAFETY AND EFFICIENCY

**Konecranes invests significantly in fork lift truck R&D to be the first to offer new technologies that improve performance and safety. We also ensure that our fork lifts are fully compliant with current 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 two-way catalyzers or particle filters (including a catalyzer) to reduce exhaust emissions.

### 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
- Driver log-in (20 drivers)

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
- Drive speed limitation (unloaded/loaded)
- Data logging of alarms and errors
- Remote Access Service (via GSM)

### 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 fork lift 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 for example 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 Super-smooth lifting levers are standard

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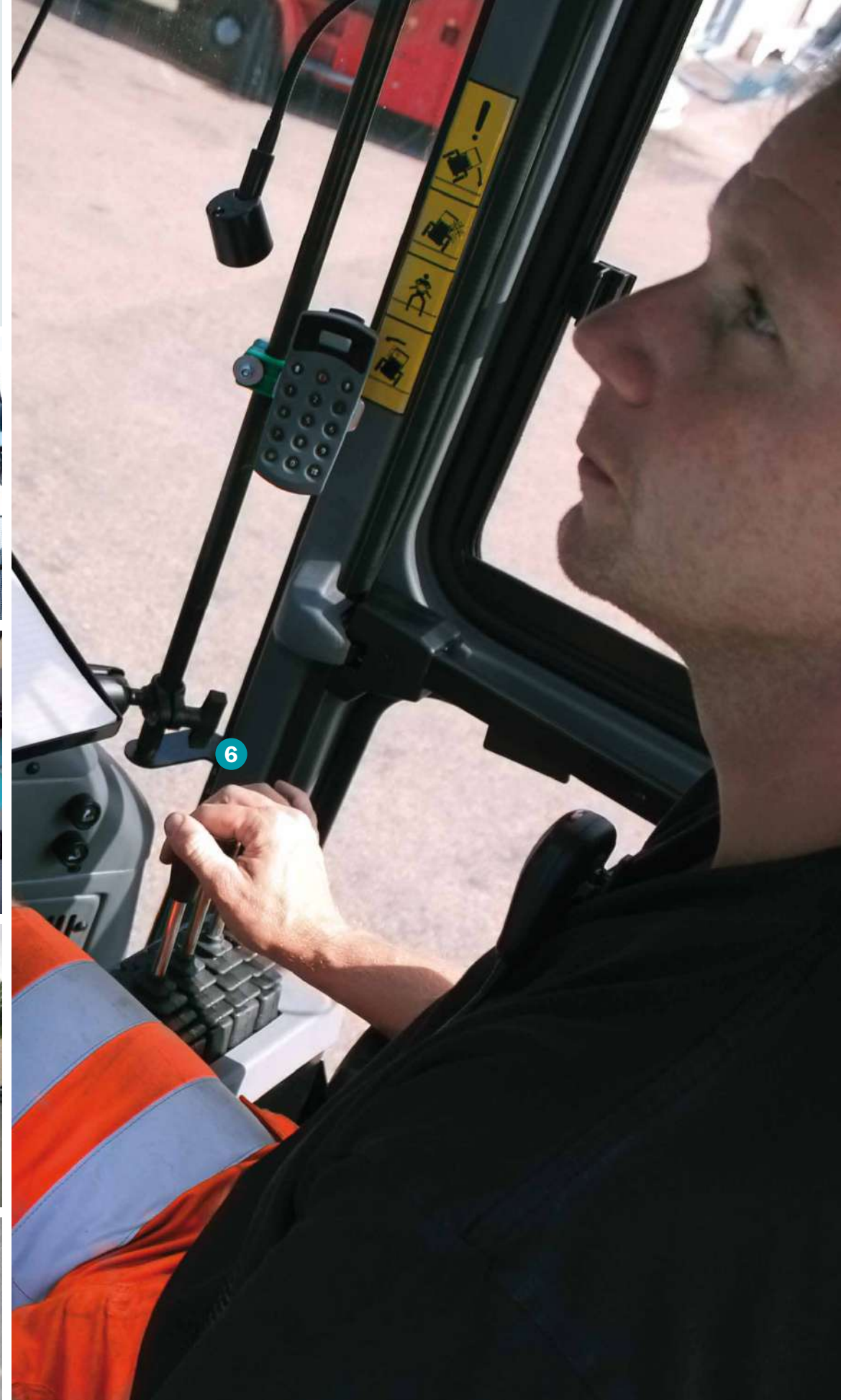


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## What do you need to lift? **WE HAVE THE ATTACHMENT**

You'll find your lifting solution in our complete range of lifting masts, fork/carriage combinations, fork/shaft systems and attachments. What you see here is just a sample of what we offer.



### Fork and carriage combinations



Standard carriage, integrated forks, sideshift and fork positioning



Carriage with kissing forks for steel handling



Carriage with reinforced forks for round cargo

### Forks and fork shaft systems (fss)



Standard fork

XL fork

Different cross-sections, lengths, tapering and reinforcements



Fork shaft system hook-type



Fork shaft system, pin-type

### Coil rams



Single coil ram with fork shaft



Double coil ram with fork shaft



Single coil ram, integral version

## Lifting masts



Duplex, 2-stage, no freelif



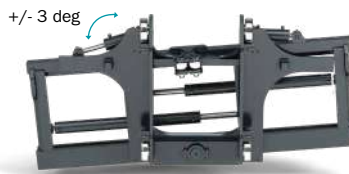
Duplex, 2-stage with freelif



Triplex, 3-stage with freelif



Carriage with one leveling fork (up/down) for sensitive cargo like saw mill products



Carriage with center leveling (2 forks) for sensitive cargo



Carriage with fork shaft system (multi-function), pin-type and hook-type versions

## Attachments



Different container spreaders with inverted forks and fork shafts



Multiple paper roll clamp (single or double)



Fork rotator carriage



Concrete tube clamp (different versions)

### Also available

- Fork extensions: pantograph, lifting hook, lifting jib
- Pipe and tube clamp
- Pallet handlers: double, triple
- Magnets for lifting steel

**And more available upon request**

EQUIPMENT

For all Konecranes fork lift trucks

| STANDARD EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                         | OPTIONAL EQUIPMENT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Models with standard lifting capacities and wheelbases                                                                                                                                                                                                                                                                                                                                     | Alternative lifting capacities and wheelbases are available                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| TRUCK BODY                                                                                                                                                                                                                                                                                                                                                                                 | TRUCK BODY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Box-type chassis <ul style="list-style-type: none"><li>Strong box profile and crossmembers</li><li>Safe, ergonomic access steps and hand rails LHS + RHS</li><li>Strong tilt cylinder fixtures on mast and chassis</li><li>Lifting eyes, front and rear</li><li>Low cabin mounting in the front</li></ul>                                                                                  | Extra counter weights for increased stability<br>Extra mirrors on chassis                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Standard colors <ul style="list-style-type: none"><li>Chassis, tanks, mudguards and rear: seagreen NCS S2555 B30G</li><li>Mast, carriage, spreader and axles: black RAL 7021</li><li>Cabin and engine hood: light grey RAL 7035</li></ul>                                                                                                                                                  | SMV 10–18: raised front cabin position, 250 or 500 mm higher than standard<br>SMV 18–65: raised front cabin position, 400 or 700 mm higher than standard<br>Hydraulic sliding cabin, from center to the right side, raised 400–600 mm<br>Fire extinguisher on truck body or inside cabin<br>Fire fighting system for driveline compartment (semi-automatic)<br>Galvanized storage boxes with lid (on bottom step)<br>Central greasing unit for truck and spreaders<br>Custom color painting, stickers and customer logos |
| Steel mudguards                                                                                                                                                                                                                                                                                                                                                                            | Different mud flap models, front and rear<br>Extra chassis mirrors<br>Slip protection: strips or aluminum plates<br>Fire extinguisher on truck body<br>Fire suppression system                                                                                                                                                                                                                                                                                                                                           |
| STEERING AXLE                                                                                                                                                                                                                                                                                                                                                                              | STEERING AXLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Smooth power steering with double-acting cylinder<br>Wide steering angles providing small turning radius                                                                                                                                                                                                                                                                                   | Wheel nut protection and steering cylinder spacers                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| DRIVE AXLE                                                                                                                                                                                                                                                                                                                                                                                 | DRIVE AXLE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Kessler D81/91/102/106/111 <ul style="list-style-type: none"><li>Wide axle with 2-stage hub reduction and differential</li><li>Oil-cooled, maintenance-free wet disc brakes</li></ul>                                                                                                                                                                                                      | SMV 37–50: Kessler D102 in narrow axle width 3750 mm (repl 4150 mm)<br>SMV 37–50: Kessler D106 extra strength                                                                                                                                                                                                                                                                                                                                                                                                            |
| DIESEL ENGINE                                                                                                                                                                                                                                                                                                                                                                              | DIESEL ENGINE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| See technical info chart, certified for EU stage 2 / EPA Tier 2                                                                                                                                                                                                                                                                                                                            | SMV 10–18: Volvo and Cummins (147–201 kW / 700–1180 Nm)<br>SMV 18–33: Volvo and Cummins (180–201 kW / 990–1180 Nm)<br>SMV 37–65: Volvo, Scania and Cummins (256–294 kW / 1640–2172 Nm)<br>Certified for EU stage 2, 3A, 3B / EPA Tier 2, 3, 4i<br>Catalyzer (2-way) or Combi filters (3-way), stage 2/3A<br>Clean, powerful, fuel-efficient with CanBus controls                                                                                                                                                         |
| Certified for EU stage 2, 3A, 3B / EPA Tier 2, 3, 4i<br>Low-emission<br>Clean, powerful, fuel-efficient with CanBus controls                                                                                                                                                                                                                                                               | Engine air filter Turbo II, 2-stage cyclone type                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| TRANSMISSION                                                                                                                                                                                                                                                                                                                                                                               | TRANSMISSION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| SMV 10–18: DANA TE-17 (3+3 gears)<br>SMV 18–33: DANA TE-17 (3+3 gears)<br>SMV 37–65: DANA TE-27 (4+4 gears)<br>Fully automatic, softshift<br>Torque converter, smooth powershift, declutch, Reverse protection, CanBus controls                                                                                                                                                            | SMV 10–18: ZF 3WG-171 (3+3 gears), ZF 4WG-191 (3+3 gears)<br>SMV 18–33: ZF 4WG-191 (4+3 gears)<br>SMV 37–65: DANA TE-32 (4+4 gears), ZF 4WG-261 (4+3 gears)<br>Fully automatic, softshift<br>Torque converter, smooth powershift, declutch, Reverse protection, CanBus controls                                                                                                                                                                                                                                          |
| COOLING SYSTEM                                                                                                                                                                                                                                                                                                                                                                             | COOLING SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| Tropical, multi-radiator <ul style="list-style-type: none"><li>Radiators for engine water, air for intercooler, oil for transmission</li><li>Oil cooling / flushing for brakes</li></ul>                                                                                                                                                                                                   | Extra radiator / cooling circuit for hydraulic system                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| HYDRAULIC SYSTEM                                                                                                                                                                                                                                                                                                                                                                           | HYDRAULIC SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Load-sensing, power-on-demand <ul style="list-style-type: none"><li>Smooth, accurate, high-speed lifting and lowering</li><li>Variable piston pumps with intelligent control</li><li>Leak-free ORFS couplings (O-ring) for entire truck</li><li>Large oil tanks with return line filters (12 microns)</li><li>4 hydraulic functions (lift, tilt, sideshift and fork positioning)</li></ul> | Extra hydraulic functions and quick connections<br>Shock-absorbing lift mast accumulator, 1 or 3 pressure(s)<br>High-pressure filters (12 um)<br>HLL hydraulic longlife filters (3 um)<br>Hydraulic oil cooling circuit for working hydraulics<br>Hydraulic weight scale in cabin<br>SMV 10–18: 1 extra lifting pump for higher lifting speeds                                                                                                                                                                           |

STANDARD EQUIPMENT

ELECTRICAL SYSTEM

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

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 (10–25 t) / counter weight (28–65 t)  
2 x LED work lights in lift mast

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)  
  
  
3 x windshield wipers/washers  
Adjustable seat, seat belt, steering wheel

4 hydraulic servo lift levers

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)

LIFTING MASTS

Duplex mast (lifting height 3–10 m), free-visibility design  
2-stage with high tilt mountings and 2 lifting cylinders (mounted outside)  
2 pairs of mast wheels, 2 pairs of side rollers

FORK CARRIAGES

Fixed integral fork carriage, free-visibility design  
2 hydraulic cylinders for sideshift and fork positioning (long stroke)  
2 pairs of mast wheels, 2 pairs of side rollers  
Integral forks mounted in carriage

FORKS

Integral forged forks with standard tapering (600 mm to tip)  
Fork fixtures in 2 upper / 2 upper-rear / 2 lower roller bearings (per fork)  
Forged forks with standard / long tapering (tapering from 600 mm to tip)  
Fork steel grade R0-651 with tensile strength 715–830 N/mm²

SERVICE AND PARTS

Regular warranty 12 months / 2000 hours

OPTIONAL EQUIPMENT

ELECTRICAL SYSTEM

Larger alternator 80–150 Ah (see engine chart)  
Reverse alarm (beeper)  
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

LIGHTS

Lamp console on cabin roof: up to 10 work lamps and 2 warning beacons  
Extra work lights: Halogen (70 W), Xenon (3250 Lum), LED8 (1660 Lum) or LED16 (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 XL and XXL  
XL, L x W x H = 1655 x 1450 x 1720 mm (longer and higher)  
XXL, L x W x H = 1735 x 1600 x 1720 mm (longer and wider)  
  
Extra mirrors inside cabin  
Reverse and front cameras with 6.7" display (MOTEC)  
Air conditioning or climate control unit (stepless 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, hydraulic or electronic  
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  
180 deg rotating driver seat in XL or XXL cabin size  
NearGuard RFID warning system (receiver and transmitters)

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 steering 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  
EMC 127: Paper clamp handling (4 clamp pressures)  
EMC 128: Auto tilt-to-zero function for lift mast

LIFTING MASTS

Duplex freelif (lifting height 3–10 m) with 2 pairs lifting cylinders (mounted outside)  
Triplex freelif (lifting height 4.5–8.25 m) with 2 pairs lifting cylinders (mounted inside or outside)  
Extra mast wheels and extra side rollers  
Extended mast wheel distance 125 mm or 250 mm

FORK CARRIAGES

Wider fork carriage, fork leveling / center leveling, turning carriage, etc  
Extra hydraulic functions and quick connections  
Extra mast wheels and extra side rollers (for tough applications)  
Fork shaft system: quick-change (FSS / term west / hook or pin-type)

FORKS

Other fork tapering, fork cross sections, different steel qualities  
Reinforced fork fixtures in 3 upper / 3 upper-rear roller bearings (per fork)  
XL or XXL shorter tapering (tapering from 1200 mm to tip / thicker tip)  
Higher steel grade CrNiMo and HRO with strength 900–1300 N/mm²  
Other fork tapering options, cross-sections, kissing forks, etc.  
Special solutions for steel, paper, concrete, wood, etc.

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

LIFTING MAST HEIGHT

Free visibility design

| SMV 10-600 B – 13.6-600 B   |              |          | SMV 10-1200 B – 18-900 B |              |          | SMV 18-1200 B – 25-1200 B |              |          | SMV 28-1200 B – 33-1200 B |              |          |
|-----------------------------|--------------|----------|--------------------------|--------------|----------|---------------------------|--------------|----------|---------------------------|--------------|----------|
| Duplex no freelif (2-stage) |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift | Lift                     | Mast height  | Freelift | Lift                      | Mast height  | Freelift | Lift                      | Mast height  | Freelift |
| (mm)                        | min-max (mm) | (mm)     | (mm)                     | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     |
| 3000                        | 2945 / 4415  | -        | 3000                     | 3145 / 4600  | -        | 3000                      | 3310 / 4755  | -        | -                         | -            | -        |
| 3500                        | 3195 / 4915  | -        | 3500                     | 3395 / 5100  | -        | 3500                      | 3560 / 5255  | -        | -                         | -            | -        |
| 4000                        | 3445 / 5415  | -        | 4000                     | 3645 / 5600  | -        | 4000                      | 3810 / 5755  | -        | 4000                      | 4010 / 5955  | -        |
| 4500                        | 3695 / 5915  | -        | 4500                     | 3895 / 6100  | -        | 4500                      | 4060 / 6255  | -        | 4500                      | 4260 / 6455  | -        |
| 5000                        | 3945 / 6415  | -        | 5000                     | 4145 / 6600  | -        | 5000                      | 4310 / 6755  | -        | 5000                      | 4510 / 6955  | -        |
| 5500                        | 4195 / 6915  | -        | 5500                     | 4395 / 7100  | -        | 5500                      | 4560 / 7255  | -        | 5500                      | 4760 / 7455  | -        |
| 6000                        | 4445 / 7415  | -        | 6000                     | 4645 / 7600  | -        | 6000                      | 4810 / 7755  | -        | 6000                      | 5010 / 7955  | -        |
| 6500                        | 4695 / 7915  | -        | 6500                     | 4895 / 8100  | -        | 6500                      | 5060 / 8255  | -        | 6500                      | 5260 / 8455  | -        |
| -                           | -            | -        | 7000                     | 5145 / 8600  | -        | 7000                      | 5310 / 8755  | -        | 7000                      | 5510 / 8955  | -        |
| -                           | -            | -        | 8000                     | 5645 / 9600  | -        | 8000                      | 5810 / 9755  | -        | 8000                      | 6010 / 9955  | -        |
| -                           | -            | -        | -                        | -            | -        | 9000                      | 6310 / 10755 | -        | 9000                      | 6510 / 10955 | -        |
| -                           | -            | -        | -                        | -            | -        | 10000                     | 6810 / 11755 | -        | 10000                     | 7010 / 11955 | -        |
| Duplex freelif (2-stage)    |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift | Lift                     | Mast height  | Freelift | Lift                      | Mast height  | Freelift | Lift                      | Mast height  | Freelift |
| (mm)                        | min-max (mm) | (mm)     | (mm)                     | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     |
| 3000                        | 2945 / 4415  | 1500     | 3000                     | 3145 / 4600  | 1500     | 3000                      | 3310 / 4755  | 1500     | -                         | -            | -        |
| 3500                        | 3195 / 4915  | 1750     | 3500                     | 3395 / 5100  | 1750     | 3500                      | 3560 / 5255  | 1750     | -                         | -            | -        |
| 4000                        | 3445 / 5415  | 2000     | 4000                     | 3645 / 5600  | 2000     | 4000                      | 3810 / 5755  | 2000     | 4000                      | 4010 / 5955  | 2000     |
| 4500                        | 3695 / 5915  | 2250     | 4500                     | 3895 / 6100  | 2250     | 4500                      | 4060 / 6255  | 2250     | 4500                      | 4260 / 6455  | 2250     |
| 5000                        | 3945 / 6415  | 2500     | 5000                     | 4145 / 6600  | 2500     | 5000                      | 4310 / 6755  | 2500     | 5000                      | 4510 / 6955  | 2500     |
| 5500                        | 4195 / 6915  | 2750     | 5500                     | 4395 / 7100  | 2750     | 5500                      | 4560 / 7255  | 2750     | 5500                      | 4760 / 7455  | 2750     |
| 6000                        | 4445 / 7415  | 3000     | 6000                     | 4645 / 7600  | 3000     | 6000                      | 4810 / 7755  | 3000     | 6000                      | 5010 / 7955  | 3000     |
| 6500                        | 4695 / 7915  | 3250     | 6500                     | 4895 / 8100  | 3250     | 6500                      | 5060 / 8255  | 3250     | 6500                      | 5260 / 8455  | 3250     |
| -                           | -            | -        | 7000                     | 5145 / 8600  | 3500     | 7000                      | 5310 / 8755  | 3500     | 7000                      | 5510 / 8955  | 3500     |
| Triplex freelif (3-stage)   |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift | Lift                     | Mast height  | Freelift | Lift                      | Mast height  | Freelift | Lift                      | Mast height  | Freelift |
| (mm)                        | min-max (mm) | (mm)     | (mm)                     | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     |
| 4500                        | 2945 / 5945  | 1500     | 4500                     | 3150 / 6100  | 1500     | 4500                      | 3310 / 6310  | 1500     | 4500                      | 3510 / 6510  | 1500     |
| 5250                        | 3195 / 6695  | 1750     | 5250                     | 3400 / 6850  | 1750     | 5250                      | 3560 / 7060  | 1750     | 5250                      | 3760 / 7260  | 1750     |
| 6000                        | 3445 / 7445  | 2000     | 6000                     | 3650 / 7600  | 2000     | 6000                      | 3810 / 7810  | 2000     | 6000                      | 4010 / 8010  | 2000     |
| 6750                        | 3695 / 8195  | 2250     | 6750                     | 3900 / 8350  | 2250     | 6750                      | 4060 / 8560  | 2250     | 6750                      | 4260 / 8760  | 2250     |
| -                           | -            | -        | 7500                     | 4150 / 9100  | 2500     | 7500                      | 4310 / 9310  | 2500     | -                         | -            | -        |
| SMV 37-1200 B – 45-1200 B   |              |          |                          |              |          |                           |              |          |                           |              |          |
| SMV 50-1200 B – 55-1200 B   |              |          |                          |              |          |                           |              |          |                           |              |          |
| SMV 60-1500 B – 65-1200 B   |              |          |                          |              |          |                           |              |          |                           |              |          |
| Duplex no freelif (2-stage) |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift | Lift                     | Mast height  | Freelift | Lift                      | Mast height  | Freelift |                           |              |          |
| (mm)                        | min-max (mm) | (mm)     | (mm)                     | min-max (mm) | (mm)     | (mm)                      | min-max (mm) | (mm)     |                           |              |          |
| 4000                        | 4550 / 6485  | -        | 4000                     | 5050 / 6975  | -        | 4000                      | 5750 / 7700  | -        |                           |              |          |
| 4500                        | 4800 / 6985  | -        | 4500                     | 5300 / 7475  | -        | -                         | -            | -        |                           |              |          |
| 5000                        | 5050 / 7485  | -        | 5000                     | 5550 / 7975  | -        | 5000                      | 6250 / 8700  | -        |                           |              |          |
| 5500                        | 5300 / 7985  | -        | 5500                     | 5800 / 8475  | -        | -                         | -            | -        |                           |              |          |
| 6000                        | 5550 / 8485  | -        | 6000                     | 6050 / 8975  | -        | 6000                      | 6750 / 9700  | -        |                           |              |          |
| 6500                        | 5800 / 8985  | -        | 6500                     | 6300 / 9475  | -        | -                         | -            | -        |                           |              |          |
| 7000                        | 6050 / 9485  | -        | 7000                     | 6550 / 9975  | -        | 7000                      | 7250 / 10700 | -        |                           |              |          |
| 8000                        | 6550 / 10485 | -        | 8000                     | 7050 / 10975 | -        | -                         | -            | -        |                           |              |          |
| 9000                        | 7050 / 11485 | -        | 9000                     | 7550 / 11975 | -        | -                         | -            | -        |                           |              |          |
| 10000                       | 7550 / 12485 | -        | 10000                    | 8050 / 12975 | -        | -                         | -            | -        |                           |              |          |
| Duplex freelif (2-stage)    |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift | Lift                     | Mast height  | Freelift |                           |              |          |                           |              |          |
| (mm)                        | min-max (mm) | (mm)     | (mm)                     | min-max (mm) | (mm)     |                           |              |          |                           |              |          |
| 4000                        | 4400 / 6345  | 2000     | 4000                     | 5050 / 7050  | 2000     |                           |              |          |                           |              |          |
| 4500                        | 4650 / 6845  | 2250     | 4500                     | 5300 / 7550  | 2250     |                           |              |          |                           |              |          |
| 5000                        | 4900 / 7345  | 2500     | 5000                     | 5550 / 8050  | 2500     |                           |              |          |                           |              |          |
| 5500                        | 5150 / 7845  | 2750     | 5500                     | 5800 / 8550  | 2750     |                           |              |          |                           |              |          |
| 6000                        | 5400 / 8345  | 3000     | 6000                     | 6050 / 9050  | 3000     |                           |              |          |                           |              |          |
| 6500                        | 5650 / 8845  | 3250     | 6500                     | 6300 / 9550  | 3250     |                           |              |          |                           |              |          |
| 7000                        | 5900 / 9345  | 3500     | 7000                     | 6550 / 10050 | 3500     |                           |              |          |                           |              |          |
| 8000                        | 6400 / 10345 | 4000     | 8000                     | 7050 / 11050 | 4000     |                           |              |          |                           |              |          |
| Triplex freelif (3-stage)   |              |          |                          |              |          |                           |              |          |                           |              |          |
| Lift                        | Mast height  | Freelift |                          |              |          |                           |              |          |                           |              |          |
| (mm)                        | min-max (mm) | (mm)     |                          |              |          |                           |              |          |                           |              |          |
| 4500                        | 3930 / 6930  | 1500     |                          |              |          |                           |              |          |                           |              |          |
| 5250                        | 4180 / 7680  | 1750     |                          |              |          |                           |              |          |                           |              |          |
| 6000                        | 4430 / 8430  | 2000     |                          |              |          |                           |              |          |                           |              |          |
| 6750                        | 4680 / 9180  | 2250     |                          |              |          |                           |              |          |                           |              |          |
| 6750                        | 4680 / 9180  | 2250     |                          |              |          |                           |              |          |                           |              |          |

NOTE 1. For 3-high container handler, choose 7000 mm mast + 2230 mm for spreader = 9230 mm (3 x 9'6")

NOTE 2. For 4-high container handler, choose 10000 mm mast + 2230 mm for spreader = 12230 mm (4 x 9'6")

NOTE 3. Triplex 6000 = 3 x 8'6" with inverted forks (+2300 mm)

NOTE 4. Triplex 6750 = 3 x 9'6" with inverted forks (+2450 mm)

NOTE 5. For lifting heights starting at 7000 mm or higher the tilt angles are reduced to 4/2 deg from 10/5 deg

# DRIVELINES

## Fork lift trucks 10 – 33 tons

| MODEL                        |        | SMV 10-600 B – 18-900 B |                |                 | SMV 10-600 / 18-900 B & SMV 18-1200 B / 33-1200 B |                |                |                 |  |
|------------------------------|--------|-------------------------|----------------|-----------------|---------------------------------------------------|----------------|----------------|-----------------|--|
| 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 | 6-10                    | 6-10           | 5-10            | 9-13                                              | 8-13           | 8-13           | 7-13            |  |
| Transmission (make / model)  |        | DANA TE-17              | DANA TE-17     | ZF 3WG-171      | DANA TE-17                                        | DANA TE-17     | DANA TE-17     | ZF 4WG-191      |  |

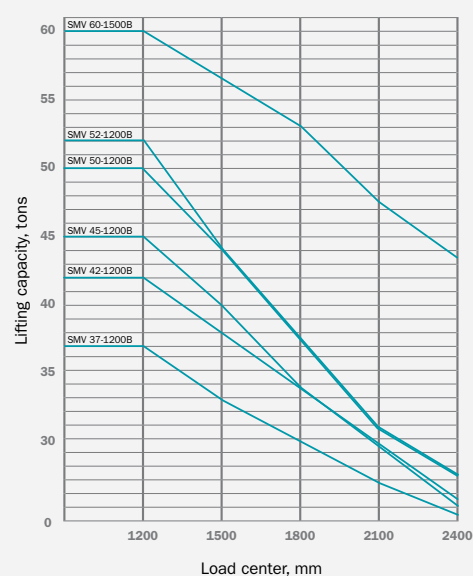
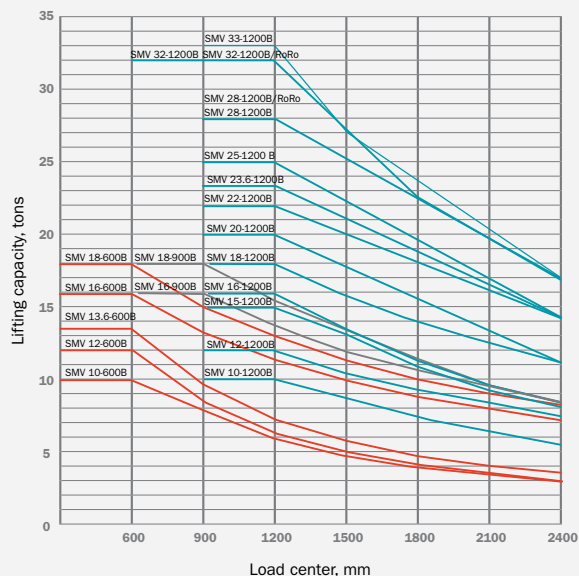
| MODEL                    |       | SMV 10-600 B – 18-900 B |           |           | SMV 18-1200 B – 33-1200 B |           |  |  |  |
|--------------------------|-------|-------------------------|-----------|-----------|---------------------------|-----------|--|--|--|
| Transmission             | 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       |  |  |  |

## Fork lift trucks 37 – 65 tons

| MODEL                        |        | SMV 37-1200 B – 65-1200 B |               |                |                |                              |                              |                 |                 |
|------------------------------|--------|---------------------------|---------------|----------------|----------------|------------------------------|------------------------------|-----------------|-----------------|
| 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 / 1000               | 1950 / 1200   | 1640 / 1400    | 1674 / 1000    | 1740 / 1000                  | 1950 / 1200                  | 1940 / 1000     | 2172 / 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                        | 14-20           | 14-20           |
| 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 37-1200 B – 65-1200 B |           |           |           |  |  |  |  |
|--------------------------|-------|---------------------------|-----------|-----------|-----------|--|--|--|--|
| 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       |  |  |  |  |

## Lifting capacity vs. load center



# TECHNICAL DATA

Fork lift trucks 10 – 18 tons

| MODEL        |                                               |                     | SMV 10-600 B | SMV 12-600 B                                                                   | SMV 13.6-600 B     | SMV 10-1200 B      |
|--------------|-----------------------------------------------|---------------------|--------------|--------------------------------------------------------------------------------|--------------------|--------------------|
| LIFTING DATA | <b>Dimensions</b>                             | <b>Identifier</b>   | <b>Units</b> |                                                                                |                    |                    |
|              | Lifting capacity                              |                     | kg           | 10000                                                                          | 12000              | 13600              |
|              | Load center                                   | <b>LC1</b>          | mm           | 600                                                                            | 600                | 600                |
|              | Full lifting capacity up to lifting height    |                     | mm           | 7000                                                                           | 7000               | 7000               |
|              | Lost load center                              | <b>L4</b>           | mm           | 835                                                                            | 835                | 840                |
|              | Wheelbase                                     | <b>L3</b>           | mm           | 3000 (opt. 2800)                                                               | 3000 (opt. 2800)   | 3250               |
| WEIGHT       | Service weight                                |                     | kg           | 14800                                                                          | 15200              | 16100              |
|              | Axle pressure front, unloaded / at rated load |                     | kg           | 7900 / 22600                                                                   | 7900 / 25600       | 8300 / 27900       |
|              | Axle pressure rear, unloaded / at rated load  |                     | kg           | 6900 / 2200                                                                    | 7300 / 1600        | 7800 / 1800        |
| WHEELS       | Tire type                                     |                     | Pneumatic    | Pneumatic                                                                      | Pneumatic          | Pneumatic          |
|              | Tire dimension / ply rating, front & rear     |                     | Inch         | 11.00 x 20" / PR20                                                             | 11.00 x 20" / PR20 | 12.00 x 20" / PR20 |
|              | Rim dimensions, front & rear                  |                     | Inch         | 8.00 x 20"                                                                     | 8.00 x 20"         | 8.00 x 20"         |
|              | Tire pressure, front / rear                   |                     | MPa          | 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             |
|              | Track width, front / rear                     | <b>T1 / T2</b>      | mm           | 1859 / 2036                                                                    | 1859 / 2036        | 1859 / 2036        |
| DIMENSIONS   | Mast tilt, backward / forward                 | <b>β / α</b>        | deg          | 5 / 10                                                                         | 5 / 10             | 5 / 10             |
|              | Lifting height                                | <b>H1</b>           | mm           | 4000                                                                           | 4000               | 4000               |
|              | Mast height, retracted / extended             | <b>H3 - H4</b>      | mm           | 3445 / 5415                                                                    | 3445 / 5415        | 3445 / 5415        |
|              | Truck height over cabin / seat height         | <b>H5 - H6</b>      | mm           | 2890 / 1800                                                                    | 2890 / 1800        | 2890 / 1800        |
|              | Overall length (to back of fork)              | <b>L2</b>           | mm           | 4625                                                                           | 4625               | 4880               |
|              | Drive axle width                              | <b>W1</b>           | mm           | 2500                                                                           | 2500               | 2500               |
|              | Fork dimensions (width x thickness x length)  | <b>W x T x L</b>    | mm           | 200 x 65 x 1500                                                                | 200 x 65 x 1500    | 200 x 70 x 1500    |
|              | Fork carriage type                            |                     |              | Hydraulic-powered sideshift & fork positioner                                  |                    |                    |
|              | Fork carriage width                           | <b>W2</b>           | mm           | 2500                                                                           | 2500               | 2500               |
|              | Fork positioning (min - max / outside)        | <b>FP</b>           | mm           | 570 / 2352                                                                     | 570 / 2352         | 570 / 2352         |
|              | Fork sideshift (max / at fork position)       | <b>SS</b>           | mm           | ± 470 / 1215                                                                   | ± 470 / 1215       | ± 470 / 1215       |
|              | Ground clearance (mast / middle / steer axle) | <b>C1 / C2 / C3</b> | mm           | 250 / 320 / 320                                                                | 250 / 320 / 320    | 250 / 320 / 320    |
| PERFORMANCE  | Aisle width                                   | <b>A1</b>           | mm           | 6735                                                                           | 6735               | 7015               |
|              | Turning radius (inner - outer)                | <b>R1 - R2</b>      | mm           | < 250 - 4205                                                                   | < 250 - 4205       | < 250 - 4480       |
|              | Drive speed forward, unloaded / at rated load |                     | km/h         | 30 / 30                                                                        | 30 / 30            | 30 / 30            |
|              | Drive speed reverse, unloaded / at rated load |                     | km/h         | 30 / 30                                                                        | 30 / 30            | 30 / 30            |
|              | Lifting speed, unloaded / at rated load       |                     | m/s          | 0.50 / 0.45                                                                    | 0.50 / 0.45        | 0.40 / 0.35        |
| PERFORMANCE  | Lowering speed, unloaded / at rated load      |                     | m/s          | 0.40 / 0.40                                                                    | 0.40 / 0.40        | 0.40 / 0.40        |
|              | Gradeability, at rated load, 0/2 km/h         |                     | % / %        | 44 / 35                                                                        | 40 / 32            | 37 / 29            |
|              | Towing power, at rated load, 0/2 km/h         |                     | kN / kN      | 108 / 86                                                                       | 108 / 86           | 107 / 85           |
| DRIVELINE    | Engine power (min - max)                      | <b>EU2 / EU3b</b>   | kW           | 147 - 201                                                                      | 147 - 201          | 147 - 201          |
|              | Engine torque (min - max)                     | <b>EU2 / EU3b</b>   | Nm           | 700 - 1180                                                                     | 700 - 1180         | 700 - 1180         |
|              | Transmission, gears forward + reverse         |                     |              | DANA 3 + 3 / ZF 3 + 3                                                          |                    |                    |
|              | Transmission type, function, shifting         |                     |              | Fully automatic transmission, torque convertor, reverse protection, powershift |                    |                    |
|              | Drive axle model                              |                     |              | Kessler D81 (PL478) with differential                                          |                    |                    |
|              | Driving brake system, type                    |                     |              | Oil-cooled multiple wet disc brakes (WDB)                                      |                    |                    |
|              | Parking brake system, type                    |                     |              | Dry single disc / spring release                                               |                    |                    |
| OTHERS       | Steering system / steer axle type             |                     |              | Hydraulic power steering / HD axle with double-acting cylinder                 |                    |                    |
|              | Load-sensing hydraulics / power-on-demand     |                     |              | Yes / yes                                                                      | Yes / yes          | Yes / yes          |
|              | Hydraulic oil pressure                        |                     | MPa          | 22                                                                             | 25                 | 20                 |
|              | Diesel / hydraulic tank volumes               |                     | Lit          | 131 / 152                                                                      | 131 / 152          | 168 / 192          |
|              | Batteries (voltage / capacity)                |                     | V - Ah       | 2 x 12 / 88                                                                    | 2 x 12 / 88        | 2 x 12 / 88        |
|              | Noise level inside cab (LM) DIN 45635         | <b>EU2 / EU3b</b>   | dB(A)        | 68 / 66                                                                        | 68 / 66            | 68 / 66            |
|              | Noise level inside cab (LpAZ) EN 12053        |                     | dB(A)        | 72                                                                             | 72                 | 72                 |
|              | Noise level outside (LWA) 2000/14/EC          |                     | dB(A)        | 109                                                                            | 109                | 109                |

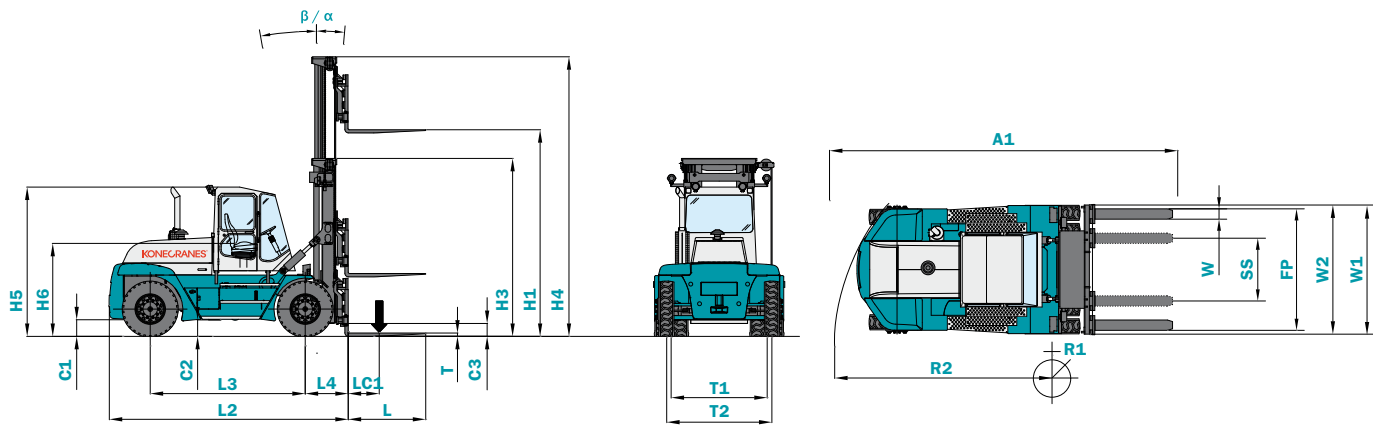
NOTE 1. All lifting capacities with duplex mast (4 m), carriage with sideshift & fork positioner and integral forks

NOTE 2. Other lifting capacities, wheelbases, lifting equipment combinations according to factory information and upon request

NOTE 3. For available driveline combinations, see driveline chart and latest factory information

NOTE 4. SMV 10-600 B and SMV 12-600 B are available in shorter wheelbase of 2800 mm, only with Volvo TAD-561/620/660-VE engine

# Dimension measurement identifiers



| SMV 12-1200 B                                 | SMV 15-1200 B                                 | SMV 16-600 B                                  | SMV 16-900 B                                  | SMV 16-1200 B                                 | SMV 18-600 B                                  | SMV 18-900 B                                  |
|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|-----------------------------------------------|
| 12000                                         | 15000                                         | 16000                                         | 16000                                         | 16000                                         | 18000                                         | 18000                                         |
| 1200                                          | 1200                                          | 600                                           | 900                                           | 1200                                          | 600                                           | 900                                           |
| 7000                                          | 7000                                          | 7000                                          | 7000                                          | 7000                                          | 7000                                          | 7000                                          |
| 925                                           | 925                                           | 905                                           | 915                                           | 925                                           | 905                                           | 915                                           |
| 3500                                          | 3750                                          | 3500                                          | 3500                                          | 3750                                          | 3750                                          | 3750                                          |
| 19900                                         | 21700                                         | 19500                                         | 21300                                         | 22400                                         | 20200                                         | 22100                                         |
| 10500 / 29800                                 | 10700 / 34200                                 | 10500 / 33400                                 | 10500 / 34800                                 | 10700 / 35800                                 | 10700 / 36000                                 | 10700 / 37400                                 |
| 9400 / 2200                                   | 11000 / 2600                                  | 9000 / 2000                                   | 10800 / 2500                                  | 11800 / 2700                                  | 9500 / 2200                                   | 11400 / 2600                                  |
| Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" | Pneumatic<br>12.00 x 20" / PR20<br>8.00 x 20" |
| 1.0 / 1.0                                     | 1.0 / 1.0                                     | 1.0 / 1.0                                     | 1.0 / 1.0                                     | 1.0 / 1.0                                     | 1.0 / 1.0                                     | 1.0 / 1.0                                     |
| 4X / 2                                        | 4X / 2                                        | 4X / 2                                        | 4X / 2                                        | 4X / 2                                        | 4X / 2                                        | 4X / 2                                        |
| 1859 / 2036                                   | 1859 / 2036                                   | 1859 / 2036                                   | 1859 / 2036                                   | 1859 / 2036                                   | 1859 / 2036                                   | 1859 / 2036                                   |
| 5 / 10                                        | 5 / 10                                        | 5 / 10                                        | 5 / 10                                        | 5 / 10                                        | 5 / 10                                        | 5 / 10                                        |
| 4000                                          | 4000                                          | 4000                                          | 4000                                          | 4000                                          | 4000                                          | 4000                                          |
| 3645 / 5600                                   | 3645 / 5600                                   | 3645 / 5600                                   | 3645 / 5600                                   | 3645 / 5600                                   | 3645 / 5600                                   | 3645 / 5600                                   |
| 2905 / 1815                                   | 2905 / 1815                                   | 2905 / 1815                                   | 2905 / 1815                                   | 2905 / 1815                                   | 2905 / 1815                                   | 2905 / 1815                                   |
| 5205                                          | 5455                                          | 5205                                          | 5205                                          | 5455                                          | 5455                                          | 5455                                          |
| 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          |
| 200 x 100 x 2400                              | 200 x 100 x 2400                              | 200 x 80 x 1500                               | 200 x 90 x 2400                               | 200 x 100 x 2400                              | 200 x 80 x 1500                               | 200 x 90 x 2400                               |
| 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          | 2550                                          |
| 600 / 2344                                    | 600 / 2344                                    | 600 / 2344                                    | 600 / 2344                                    | 600 / 2344                                    | 600 / 2344                                    | 600 / 2344                                    |
| ± 470 / 1207                                  | ± 470 / 1207                                  | ± 470 / 1207                                  | ± 470 / 1207                                  | ± 470 / 1207                                  | ± 470 / 1207                                  | ± 470 / 1207                                  |
| 250 / 335 / 197                               | 250 / 335 / 197                               | 250 / 335 / 197                               | 250 / 335 / 197                               | 250 / 335 / 197                               | 250 / 335 / 197                               | 250 / 335 / 197                               |
| 8285                                          | 8565                                          | 7385                                          | 8285                                          | 8565                                          | 7665                                          | 7665                                          |
| < 500 - 4775                                  | < 500 - 5055                                  | < 500 - 4775                                  | < 500 - 4775                                  | < 500 - 5055                                  | < 500 - 5055                                  | < 500 - 5055                                  |
| 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       |
| 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       | 30 / 30                                       |
| 0.40 / 0.35                                   | 0.40 / 0.35                                   | 0.40 / 0.35                                   | 0.40 / 0.35                                   | 0.40 / 0.35                                   | 0.33 / 0.29                                   | 0.33 / 0.29                                   |
| 0.40 / 0.40                                   | 0.40 / 0.40                                   | 0.40 / 0.40                                   | 0.40 / 0.40                                   | 0.40 / 0.40                                   | 0.40 / 0.40                                   | 0.40 / 0.40                                   |
| 34 / 27                                       | 29 / 23                                       | 30 / 24                                       | 30 / 24                                       | 28 / 22                                       | 28 / 22                                       | 27 / 21                                       |
| 107 / 85                                      | 107 / 85                                      | 107 / 85                                      | 107 / 85                                      | 107 / 85                                      | 107 / 85                                      | 107 / 85                                      |
| 147 - 201                                     | 147 - 201                                     | 147 - 201                                     | 147 - 201                                     | 147 - 201                                     | 147 - 201                                     | 147 - 201                                     |
| 700 - 1180                                    | 700 - 1180                                    | 700 - 1180                                    | 700 - 1180                                    | 700 - 1180                                    | 700 - 1180                                    | 700 - 1180                                    |
| Yes / yes                                     | Yes / yes                                     | Yes / yes                                     | Yes / yes                                     | Yes / yes                                     | Yes / yes                                     | Yes / yes                                     |
| 18                                            | 22                                            | 23                                            | 23                                            | 23                                            | 19                                            | 19                                            |
| 206 / 227                                     | 243 / 272                                     | 206 / 227                                     | 206 / 227                                     | 243 / 272                                     | 243 / 272                                     | 243 / 272                                     |
| 2 x 12 / 88                                   | 2 x 12 / 88                                   | 2 x 12 / 88                                   | 2 x 12 / 88                                   | 2 x 12 / 88                                   | 2 x 12 / 88                                   | 2 x 12 / 88                                   |
| 68 / 66                                       | 68 / 66                                       | 68 / 66                                       | 68 / 66                                       | 68 / 66                                       | 68 / 66                                       | 68 / 66                                       |
| 72                                            | 72                                            | 72                                            | 72                                            | 72                                            | 72                                            | 72                                            |
| 109                                           | 109                                           | 109                                           | 109                                           | 109                                           | 109                                           | 109                                           |

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# TECHNICAL DATA

Fork lift trucks 18 – 33 tons

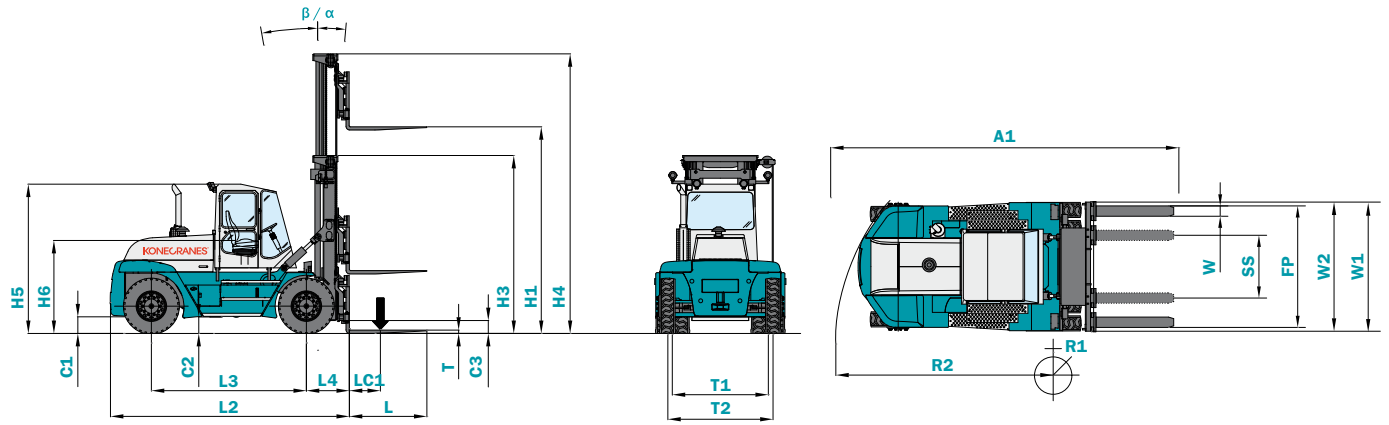
| MODEL                                |                                               |              | SMV 18-1200 B | SMV 20-1200 B                                                                  | SMV 22-1200 B      | SMV 23.6-1200 B    |
|--------------------------------------|-----------------------------------------------|--------------|---------------|--------------------------------------------------------------------------------|--------------------|--------------------|
| LIFTING DATA                         | Dimensions                                    | Identifier   | Units         |                                                                                |                    |                    |
|                                      | Lifting capacity                              |              | kg            | 18000                                                                          | 20000              | 22000              |
|                                      | Load center                                   | LC1          | mm            | 1200                                                                           | 1200               | 1200               |
|                                      | Full lifting capacity up to lifting height    |              | mm            | 9000                                                                           | 9000               | 9000               |
|                                      | Lost load center                              | L4           | mm            | 1090                                                                           | 1090               | 1090               |
|                                      | Wheelbase                                     | L3           | mm            | 4000                                                                           | 4000               | 4250               |
| WEIGHT                               | Service weight                                |              | kg            | 30000                                                                          | 31500              | 32000              |
|                                      | Axle pressure front, unloaded / at rated load |              | kg            | 16700 / 45000                                                                  | 16700 / 48100      | 16700 / 50500      |
|                                      | Axle pressure rear, unloaded / at rated load  |              | kg            | 13300 / 3000                                                                   | 14800 / 3400       | 15300 / 3500       |
| WHEELS                               | Tire type                                     |              |               | Pneumatic                                                                      | Pneumatic          | Pneumatic          |
|                                      | Tire dimension / ply rating, front & rear     |              | Inch          | 14.00 x 24" / PR24                                                             | 14.00 x 24" / PR24 | 14.00 x 24" / PR24 |
|                                      | Rim dimensions, front & rear                  |              | Inch          | 10.00 x 24"                                                                    | 10.00 x 24"        | 10.00 x 24"        |
|                                      | Tire pressure, front / rear                   |              | MPa           | 0.9 / 0.9                                                                      | 0.9 / 0.9          | 0.9 / 0.9          |
|                                      | Number of wheels, front / rear (X = driven)   |              |               | 4X / 2                                                                         | 4X / 2             | 4X / 2             |
|                                      | Track width, front / rear                     | T1 / T2      | mm            | 2199 / 2336                                                                    | 2199 / 2336        | 2199 / 2336        |
| DIMENSIONS                           | Mast tilt, backward / forward                 | β / α        | deg           | 5 / 10                                                                         | 5 / 10             | 5 / 10             |
|                                      | Lifting height                                | H1           | mm            | 4000                                                                           | 4000               | 4000               |
|                                      | Mast height, retracted / extended             | H3 - H4      | mm            | 3810 / 5755                                                                    | 3810 / 5755        | 3810 / 5755        |
|                                      | Truck height over cabin / seat height         | H5 - H6      | mm            | 3280 / 2180                                                                    | 3280 / 2180        | 3280 / 2180        |
|                                      | Overall length (to back of fork)              | L2           | mm            | 5995                                                                           | 5995               | 6245               |
|                                      | Drive axle width                              | W1           | mm            | 3020                                                                           | 3020               | 3020               |
|                                      | Fork dimensions (width x thickness x length)  | W x T x L    | mm            | 200 x 110 x 2400                                                               | 200 x 110 x 2400   | 250 x 110 x 2400   |
|                                      | Fork carriage type                            |              |               | Hydraulic-powered sideshift & fork positioner                                  |                    |                    |
|                                      | Fork carriage width                           | W2           | mm            | 3000                                                                           | 3000               | 3000               |
|                                      | Fork positioning (min - max / outside)        | FP           | mm            | 950 / 2550 (opt. 650 / 2810)                                                   |                    |                    |
|                                      | Fork sideshift (max / at fork position)       | SS           | mm            | ± 400 / 1550 (opt. ± 550 / 1510)                                               |                    |                    |
|                                      | Ground clearance (mast / middle / steer axle) | C1 / C2 / C3 | mm            | 300 / 330 / 325                                                                | 300 / 330 / 325    | 300 / 330 / 325    |
| PERFORMANCE                          | Aisle width                                   | A1           | mm            | 8970                                                                           | 9240               | 9240               |
|                                      | Turning radius (inner - outer)                | R1 - R2      | mm            | < 750 - 5280                                                                   | < 750 - 5280       | < 750 - 5550       |
|                                      | Drive speed forward, unloaded / at rated load |              | km/h          | 29 / 28                                                                        | 29 / 27            | 29 / 27            |
|                                      | Drive speed reverse, unloaded / at rated load |              | km/h          | 29 / 28                                                                        | 29 / 27            | 29 / 27            |
|                                      | Lifting speed, unloaded / at rated load       |              | m/s           | 0.30 / 0.25                                                                    | 0.30 / 0.25        | 0.30 / 0.25        |
|                                      | Lowering speed, unloaded / at rated load      |              | m/s           | 0.40 / 0.40                                                                    | 0.40 / 0.40        | 0.40 / 0.40        |
| DRIVELINE                            | Gradeability, at rated load, 0/2 km/h         |              | % / %         | 43 / 33                                                                        | 39 / 30            | 37 / 28            |
|                                      | Towing power, at rated load, 0/2 km/h         |              | kN / kN       | 196 / 147                                                                      | 196 / 147          | 196 / 147          |
|                                      | Engine power (min - max)                      | EU2 / EU3b   | kW            | 180 - 201                                                                      | 180 - 201          | 180 - 201          |
|                                      | Engine torque (min - max)                     | EU2 / EU3b   | Nm            | 990 - 1180                                                                     | 990 - 1180         | 990 - 1180         |
|                                      | Transmission, gears forward + reverse         |              |               | DANA 3 + 3 / ZF 4 + 3                                                          |                    |                    |
|                                      | Transmission type, function, shifting         |              |               | Fully automatic transmission, torque convertor, reverse protection, powershift |                    |                    |
|                                      | Drive axle model                              |              |               | Kessler D91 (PL488) with differential                                          |                    |                    |
|                                      | Driving brake system, type                    |              |               | Oil-cooled multiple wet disc brakes (WDB)                                      |                    |                    |
| OTHERS                               | Parking brake system, type                    |              |               | Dry single disc / spring release                                               |                    |                    |
|                                      | Steering system / steer axle type             |              |               | Hydraulic power steering / HD axle with double-acting cylinder                 |                    |                    |
|                                      | Load-sensing hydraulics / power-on-demand     |              |               | Yes / yes                                                                      | Yes / yes          | Yes / yes          |
|                                      | Hydraulic oil pressure                        |              | MPa           | 19                                                                             | 20                 | 22                 |
|                                      | Diesel / hydraulic tank volumes               |              | Lit           | 280 / 312                                                                      | 280 / 312          | 336 / 368          |
|                                      | Batteries (voltage / capacity)                |              | V · Ah        | 2 x 12 / 140                                                                   | 2 x 12 / 140       | 2 x 12 / 140       |
|                                      | Noise level inside cab (LM) DIN 45635         | EU2 / EU3b   | dB(A)         | 70 / 68                                                                        | 70 / 68            | 70 / 68            |
|                                      | Noise level inside cab (LpAz) EN 12053        |              | dB(A)         | 75                                                                             | 75                 | 75                 |
| Noise level outside (LWA) 2000/14/EC |                                               | dB(A)        | 110           | 110                                                                            | 110                |                    |

NOTE 1. All lifting capacities with duplex mast (4 m), carriage with sideshift & fork positioner and integral forks

NOTE 2. Other lifting capacities, wheelbases, lifting equipment combinations according to factory information and upon request

NOTE 3. For available driveline combinations, see driveline chart and latest factory information

# Dimension measurement identifiers



| SMV 25-1200 B                                  | SMV 28-1200 B                                                                  | SMV 32-1200 B                                  | SMV 33-1200 B                                  | SMV 28-1200 B RoRo                             | SMV 32-1200 B RoRo                             |
|------------------------------------------------|--------------------------------------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|------------------------------------------------|
| 25000                                          | 28000                                                                          | 32000                                          | 33000                                          | 28000                                          | 32000                                          |
| 1200                                           | 1200                                                                           | 1200                                           | 1200                                           | 1200                                           | 1200                                           |
| 9000                                           | 9000                                                                           | 9000                                           | 9000                                           | 3100                                           | 3100                                           |
| 1090                                           | 1195                                                                           | 1195                                           | 1195                                           | 1430                                           | 1430                                           |
| 4250                                           | 4500                                                                           | 4750                                           | 4750                                           | 4500                                           | 4750                                           |
| 34100                                          | 39600                                                                          | 41300                                          | 42400                                          | 41900                                          | 44500                                          |
| 16700 / 55100                                  | 20300 / 63100                                                                  | 20500 / 68600                                  | 20800 / 70400                                  | 20700 / 65100                                  | 21400 / 71100                                  |
| 17400 / 4000                                   | 19300 / 4500                                                                   | 20800 / 4700                                   | 21600 / 5000                                   | 21200 / 4800                                   | 23100 / 5400                                   |
| Pneumatic<br>14.00 x 24" / PR24<br>10.00 x 24" | Pneumatic<br>16.00 x 25" / PR28<br>11.25 x 25"                                 | Pneumatic<br>16.00 x 25" / PR28<br>11.25 x 25" | Pneumatic<br>16.00 x 25" / PR32<br>11.25 x 25" | Pneumatic<br>16.00 x 25" / PR28<br>11.25 x 25" | Pneumatic<br>16.00 x 25" / PR32<br>11.25 x 25" |
| 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                                         |
| 2199 / 2336                                    | 2467 / 2657                                                                    | 2467 / 2657                                    | 2467 / 2657                                    | 2467 / 2657                                    | 2467 / 2657                                    |
| 5 / 10                                         | 5 / 10                                                                         | 5 / 10                                         | 5 / 10                                         | 5 / 10                                         | 5 / 10                                         |
| 4000                                           | 4000                                                                           | 4000                                           | 4000                                           | 3100                                           | 3100                                           |
| 3810 / 5755                                    | 4010 / 5955                                                                    | 4010 / 5955                                    | 4010 / 5955                                    | 2925 / 4565                                    | 2925 / 4565                                    |
| 3280 / 2180                                    | 3400 / 2300                                                                    | 3400 / 2300                                    | 3400 / 2300                                    | 2925 / 1860                                    | 2925 / 1860                                    |
| 6245                                           | 6755                                                                           | 7005                                           | 7005                                           | 6970                                           | 7240                                           |
| 3020                                           | 3440                                                                           | 3440                                           | 3440                                           | 3440                                           | 3440                                           |
| 250 x 110 x 2400                               | 300 x 110 x 2400                                                               | 300 x 110 x 2400                               | 300 x 110 x 2400                               | 300 x 110 x 2400                               | 300 x 110 x 2400                               |
| 3000                                           | 3400                                                                           | 3400                                           | 3400                                           | 3400                                           | 3400                                           |
| 300 / 330 / 325                                | 1550 / 2750 (opt. 900 / 2850)<br>± 300 / 1850 (opt. ± 500 / 1550)              | 300 / 360 / 390                                | 300 / 360 / 390                                | 1550 / 2750<br>± 300 / 1850                    | 250 / 340 / 390                                |
| 9240                                           | 300 / 360 / 390                                                                | 10150                                          | 10435                                          | 250 / 340 / 390                                | 250 / 340 / 390                                |
| < 750 - 5550                                   | 10150                                                                          | 10435                                          | 10435                                          | 10390                                          | 10670                                          |
| 28 / 27                                        | 830 - 6360                                                                     | 970 - 6640                                     | 970 - 6640                                     | 830 - 6360                                     | 970 - 6640                                     |
| 28 / 27                                        | 24 / 23                                                                        | 24 / 22                                        | 23 / 21                                        | 24 / 22                                        | 23 / 21                                        |
| 0.30 / 0.25                                    | 24 / 23                                                                        | 24 / 22                                        | 23 / 21                                        | 24 / 22                                        | 28 / 27                                        |
| 0.40 / 0.40                                    | 0.32 / 0.27                                                                    | 0.32 / 0.27                                    | 0.32 / 0.27                                    | 0.32 / 0.27                                    | 0.32 / 0.27                                    |
| 34 / 24                                        | 0.40 / 0.40                                                                    | 0.40 / 0.40                                    | 0.40 / 0.40                                    | 0.40 / 0.40                                    | 0.40 / 0.40                                    |
| 196 / 147                                      | 33 / 22                                                                        | 29 / 19                                        | 27 / 17                                        | 30 / 20                                        | 27 / 17                                        |
| 180 - 201                                      | 225 / 156                                                                      | 225 / 156                                      | 225 / 156                                      | 225 / 156                                      | 225 / 156                                      |
| 990 - 1180                                     | 180 - 201                                                                      | 180 - 201                                      | 180 - 201                                      | 180 - 201                                      | 180 - 201                                      |
|                                                | 990 - 1180                                                                     | 990 - 1180                                     | 990 - 1180                                     | 990 - 1180                                     | 990 - 1180                                     |
|                                                | DANA 3 + 3 / ZF 4 + 3                                                          |                                                |                                                |                                                |                                                |
|                                                | Fully automatic transmission, torque convertor, reverse protection, powershift |                                                |                                                |                                                |                                                |
|                                                | Kessler D91 (PL408) with differential                                          |                                                |                                                |                                                |                                                |
|                                                | Oil-cooled multiple wet disc brakes (WDB)                                      |                                                |                                                |                                                |                                                |
|                                                | Dry single disc / spring release                                               |                                                |                                                |                                                |                                                |
|                                                | Hydraulic power steering / HD axle with double-acting cylinder                 |                                                |                                                |                                                |                                                |
| Yes / yes                                      | Yes / yes                                                                      | Yes / yes                                      | Yes / yes                                      | Yes / yes                                      | Yes / yes                                      |
| 24                                             | 20                                                                             | 22                                             | 22                                             | 20                                             | 22                                             |
| 336 / 368                                      | 316 / 355                                                                      | 371 / 406                                      | 371 / 406                                      | 316 / 355                                      | 371 / 406                                      |
| 2 x 12 / 140                                   | 2 x 12 / 140                                                                   | 2 x 12 / 140                                   | 2 x 12 / 140                                   | 2 x 12 / 140                                   | 2 x 12 / 140                                   |
| 70 / 68                                        | 70 / 68                                                                        | 70 / 68                                        | 70 / 68                                        | 70 / 68                                        | 70 / 68                                        |
| 75                                             | 75                                                                             | 75                                             | 75                                             | 75                                             | 75                                             |
| 110                                            | 110                                                                            | 110                                            | 110                                            | 110                                            | 110                                            |

# TECHNICAL DATA

Fork lift trucks 37 – 65 tons

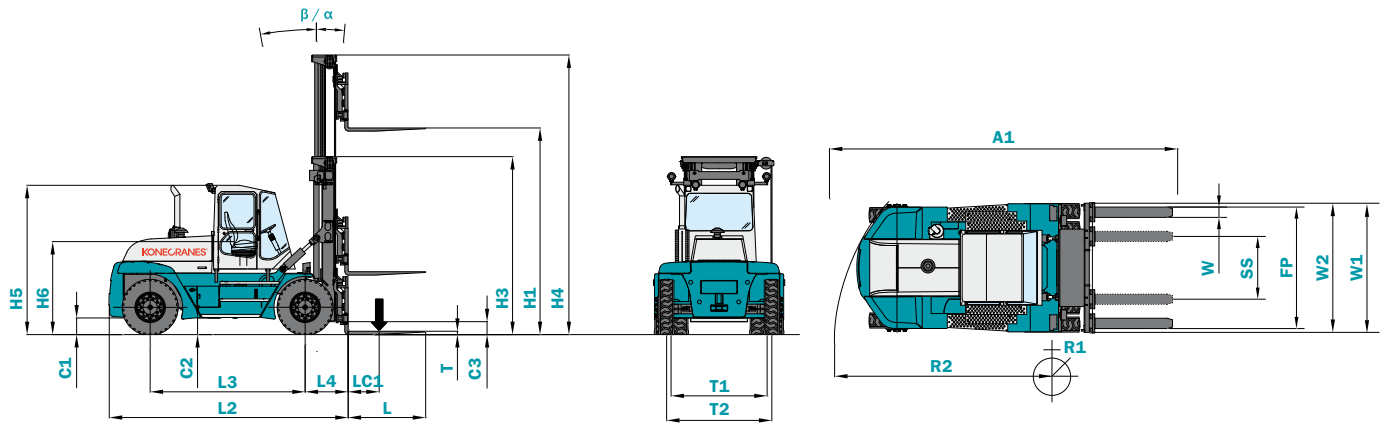
| MODEL        |                                               |                     | SMV 37-1200 B | SMV 42-1200 B                                                                  | SMV 45-1200 B      |
|--------------|-----------------------------------------------|---------------------|---------------|--------------------------------------------------------------------------------|--------------------|
| LIFTING DATA | <b>Dimensions</b>                             | <b>Identifier</b>   | <b>Units</b>  |                                                                                |                    |
|              | Lifting capacity                              |                     | kg            | 37000                                                                          | 42000              |
|              | Load center                                   | <b>LC1</b>          | mm            | 1200                                                                           | 1200               |
|              | Full lifting capacity up to lifting height    |                     | mm            | 9000                                                                           | 9000               |
|              | Lost load center                              | <b>L4</b>           | mm            | 1240                                                                           | 1240               |
|              | Wheelbase                                     | <b>L3</b>           | mm            | 5000                                                                           | 5500               |
| WEIGHT       | Service weight                                |                     | kg            | 49600                                                                          | 50100              |
|              | Axle pressure front, unloaded / at rated load |                     | kg            | 25700 / 80800                                                                  | 25600 / 86300      |
|              | Axle pressure rear, unloaded / at rated load  |                     | kg            | 23900 / 5800                                                                   | 24500 / 5800       |
| WHEELS       | Tire type                                     |                     |               | Pneumatic                                                                      | Pneumatic          |
|              | Tire dimension / ply rating, front & rear     |                     | Inch          | 18.00 x 25" / PR40                                                             | 18.00 x 25" / PR40 |
|              | Rim dimensions, front & rear                  |                     | Inch          | 13.00 x 25"                                                                    | 13.00 x 25"        |
|              | Tire pressure, front / rear                   |                     | MPa           | 1.0 / 1.0                                                                      | 1.0 / 1.0          |
|              | Number of wheels, front / rear (X = driven)   |                     |               | 4X / 2                                                                         | 4X / 2             |
|              | Track width, front / rear                     | <b>T1 / T2</b>      | mm            | 3030 / 2612                                                                    | 3030 / 2612        |
| DIMENSIONS   | Mast tilt, backward / forward                 | <b>β / α</b>        | deg           | 5 / 10                                                                         | 5 / 10             |
|              | Lifting height                                | <b>H1</b>           | mm            | 4000                                                                           | 4000               |
|              | Mast height, retracted / extended             | <b>H3 - H4</b>      | mm            | 4550 / 6485                                                                    | 4550 / 6485        |
|              | Truck height over cabin / seat height         | <b>H5 - H6</b>      | mm            | 3660 / 2550                                                                    | 3660 / 2550        |
|              | Overall length (to back of fork)              | <b>L2</b>           | mm            | 7300                                                                           | 7800               |
|              | Drive axle width                              | <b>W1</b>           | mm            | 4160                                                                           | 4160               |
|              | Fork dimensions (width x thickness x length)  | <b>W x T x L</b>    | mm            | 300 x 135 x 2400                                                               | 300 x 135 x 2400   |
|              | Fork carriage type                            |                     |               | Sideshift & fork positioner                                                    |                    |
|              | Fork carriage width                           | <b>W2</b>           | mm            | 3400                                                                           | 3400               |
|              | Fork positioning (min - max / outside)        | <b>FP</b>           | mm            | 1950 / 2750 (opt. 850 / 3150)                                                  |                    |
|              | Fork sideshift (max / at fork position)       | <b>SS</b>           | mm            | ± 200 / 2050 (opt. ± 550 / 1700)                                               |                    |
|              | Ground clearance (mast / middle / steer axle) | <b>C1 / C2 / C3</b> | mm            | 300 / 440 / 520                                                                | 300 / 440 / 270    |
|              | Aisle width                                   | <b>A1</b>           | mm            | 10700                                                                          | 11300              |
| PERFORMANCE  | Turning radius (inner - outer)                | <b>R1 - R2</b>      | mm            | 750 - 6900                                                                     | 1100 - 7500        |
|              | Drive speed forward, unloaded / at rated load |                     | km/h          | 24 / 23                                                                        | 24 / 23            |
|              | Drive speed reverse, unloaded / at rated load |                     | km/h          | 24 / 23                                                                        | 24 / 23            |
|              | Lifting speed, unloaded / at rated load       |                     | m/s           | 0.26 / 0.21                                                                    | 0.26 / 0.21        |
|              | Lowering speed, unloaded / at rated load      |                     | m/s           | 0.40 / 0.40                                                                    | 0.40 / 0.40        |
|              | Gradeability, at rated load, 0/2 km/h         |                     | % / %         | 37 / 28                                                                        | 34 / 26            |
| DRIVELINE    | Towing power, at rated load, 0/2 km/h         |                     | kN / kN       | 309 / 248                                                                      | 309 / 248          |
|              | Engine power (min - max)                      | <b>EU2 / EU3b</b>   | kW            | 256 - 294                                                                      | 256 - 294          |
|              | Engine torque (min - max)                     | <b>EU2 / EU3b</b>   | Nm            | 1640 - 2172                                                                    | 1640 - 2172        |
|              | Transmission, gears forward + reverse         |                     |               | DANA 4 + 4 / ZF 4 + 3                                                          |                    |
|              | Transmission type, function, shifting         |                     |               | Fully automatic transmission, torque convertor, reverse protection, powershift |                    |
|              | Drive axle model                              |                     |               | Kessler D102                                                                   |                    |
| OTHERS       | Driving brake system, type                    |                     |               | Oil-cooled multiple wet disc brakes (WDB)                                      |                    |
|              | Parking brake system, type                    |                     |               | Dry single disc / spring release                                               |                    |
|              | Steering system / steer axle type             |                     |               | Hydraulic power steering / HD axle with double-acting cylinder                 |                    |
|              | Load-sensing hydraulics / power-on-demand     |                     |               | Yes / yes                                                                      | Yes / yes          |
|              | Hydraulic oil pressure                        |                     | MPa           | 20                                                                             | 22                 |
|              | Diesel / hydraulic tank volumes               |                     | Lit           | 410 / 480                                                                      | 550 / 630          |
| OTHERS       | Batteries (voltage / capacity)                |                     | V - Ah        | 2 x 12 / 140                                                                   | 2 x 12 / 140       |
|              | Noise level inside cab (LM) DIN 45635         | <b>EU2 / EU3b</b>   | dB(A)         | 73 / 70                                                                        | 73 / 70            |
|              | Noise level inside cab (LpAZ) EN 12053        |                     | dB(A)         | 76                                                                             | 76                 |
|              | Noise level outside (LWA) 2000/14/EC          |                     | dB(A)         | 111                                                                            | 111                |

NOTE 1. All lifting capacities with duplex mast (4 m), carriage with sideshift & fork positioner and integral forks

NOTE 2. Other lifting capacities, wheelbases, lifting equipment combinations according to factory information and upon request

NOTE 3. For available driveline combinations, see driveline chart and latest factory information

# Dimension measurement identifiers



| SMV 50-1200 B                    | SMV 52-1200 B      | SMV 60-1500 B                                                                  | SMV 65-1200 B    |
|----------------------------------|--------------------|--------------------------------------------------------------------------------|------------------|
| 50000                            | 52000              | 60000                                                                          | 65000            |
| 1200                             | 1200               | 1500                                                                           | 1200             |
| 6000                             | 6000               | 6000                                                                           | 6000             |
| 1340                             | 1430               | 1620                                                                           | 1620             |
| 6000                             | 6000               | 6000                                                                           | 6000             |
| 58100                            | 61700              | 89600                                                                          | 89600            |
| 30500 / 101700                   | 32000 / 106800     | 48300 / 139600                                                                 | 48300 / 139600   |
| 27600 / 6400                     | 29700 / 6900       | 41300 / 10000                                                                  | 41300 / 10000    |
| Pneumatic                        | Pneumatic          | Pneumatic                                                                      | Pneumatic        |
| 18.00 x 25" / PR40               | 18.00 x 33" / PR36 | 21.00 x 35" / PR40 + 18.00 x 33" / PR36                                        |                  |
| 13.00 x 25"                      | 13.00 x 33"        | 13.00 x 33" + 11.25 x 25"                                                      |                  |
| 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 / 2911        | 3225 / 2911                                                                    | 3225 / 2911      |
| 5 / 10                           | 5 / 10             | 5 / 10                                                                         | 5 / 10           |
| 4000                             | 4000               | 4000                                                                           | 4000             |
| 5050 / 6975                      | 5050 / 6975        | 5750 / 7700                                                                    | 5750 / 7700      |
| 3660 / 2550                      | 3840 / 2725        | 4025 / 2900                                                                    | 4025 / 2900      |
| 8400                             | 8550               | 8750                                                                           | 8750             |
| 4160                             | 4160               | 4600                                                                           | 4600             |
| 300 x 150 x 2400                 | 300 x 150 x 2400   | 300 x 200 x 2400                                                               | 300 x 200 x 2400 |
| Sideshift & fork positioner      |                    | Sideshift & fork positioner                                                    |                  |
| 3400                             | 3400               | 4400                                                                           | 4400             |
| 1950 / 2750 (opt. 850 / 3150)    |                    | 1950 / 2750 (opt. 850 / 3150)                                                  |                  |
| ± 200 / 2050 (opt. ± 550 / 1700) |                    | ± 200 / 2050 (opt. ± 550 / 1700)                                               |                  |
| 300 / 440 / 270                  | 300 / 600 / 400    | 350 / 750 / 400                                                                | 350 / 750 / 400  |
| 12000                            | 12100              | 12300                                                                          | 12300            |
| 1200 - 8050                      | 1200 - 8050        | 950 - 8100                                                                     | 950 - 8100       |
| 24 / 22                          | 26 / 23            | 29 / 22                                                                        | 29 / 22          |
| 24 / 22                          | 26 / 23            | 29 / 22                                                                        | 29 / 22          |
| 0.21 / 0.16                      | 0.21 / 0.16        | 0.21 / 0.16                                                                    | 0.21 / 0.16      |
| 0.40 / 0.40                      | 0.40 / 0.40        | 0.22 / 0.26                                                                    | 0.22 / 0.26      |
| 28 / 23                          | 35 / 23            | 23 / 17                                                                        | 23 / 17          |
| 313 / 253                        | 260 / 214          | 360 / 275                                                                      | 360 / 275        |
| 256 - 294                        | 256 - 294          | 256 - 294                                                                      | 256 - 294        |
| 1640 - 2172                      | 1640 - 2172        | 1640 - 2172                                                                    | 1640 - 2172      |
|                                  |                    | DANA 4 + 4 / ZF 4 + 3                                                          |                  |
|                                  |                    | Fully automatic transmission, torque convertor, reverse protection, powershift |                  |
|                                  | Kessler D106       | Kessler D111                                                                   |                  |
|                                  |                    | Oil-cooled multiple wet disc brakes (WDB)                                      |                  |
|                                  |                    | Dry single disc / spring release                                               |                  |
|                                  |                    | Hydraulic power steering / HD axle with double-acting cylinder                 |                  |
| Yes / yes                        | Yes / yes          | Yes / yes                                                                      | Yes / yes        |
| 19                               | 22                 | 24                                                                             | 24               |
| 550 / 630                        | 550 / 630          | 550 / 650                                                                      | 550 / 650        |
| 2 x 12 / 140                     | 2 x 12 / 140       | 2 x 12 / 140                                                                   | 2 x 12 / 140     |
| 73 / 70                          | 73 / 70            | 73 / 70                                                                        | 73 / 70          |
| 76                               | 76                 | 76                                                                             | 76               |
| 111                              | 111                | 112                                                                            | 112              |



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HEAVY-DUTY  
LIFT TRUCKS



SERVICE

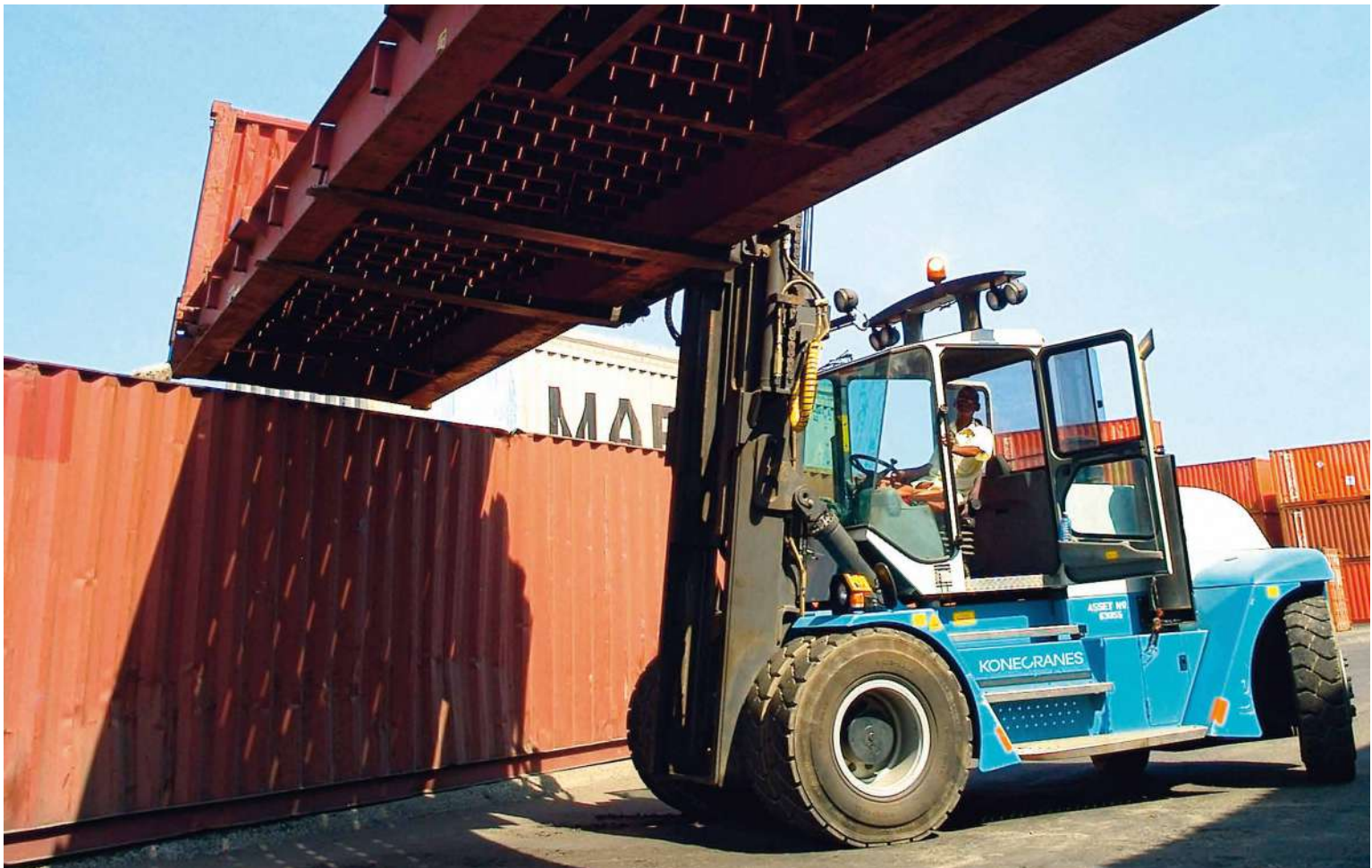


MACHINE  
TOOL  
SERVICE



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 OMX Helsinki Ltd (symbol: KCR1V). With over 12,000 employees at more than 600 locations in almost 50 countries we have the resources, technology and determination to deliver on the promise of Lifting Businesses™.

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