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

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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.

<table>
<thead>
<tr>
<th>TOTAL COST OF OWNERSHIP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Purchase value + Running costs</td>
</tr>
</tbody>
</table>

Depreciation

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
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.
6

Right armrest control options

3

Electronic servo lifting levers

5

Hydraulic servo joystick

6

Electronic servo joystick
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

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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
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 freelift
- Duplex, 2-stage with freelift
- Triplex, 3-stage with freelift

**Attachments**

- 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

**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**

- Different container spreaders with inverted forks and fork shafts
- Multiple paper roll clamp (single or double)
- Fork rotator carriage
- Concrete tube clamp (different versions)
## STANDARD EQUIPMENT

**Models with standard lifting capacities and wheelbases**

<table>
<thead>
<tr>
<th>Truck Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Box-type chassis</td>
</tr>
<tr>
<td>Strong box profile and crossmembers</td>
</tr>
<tr>
<td>Safe, ergonomic access steps and hand rails LHS + RHS</td>
</tr>
<tr>
<td>Strong tilt cylinder fixtures on mast and chassis</td>
</tr>
<tr>
<td>Lifting eyes, front and rear</td>
</tr>
<tr>
<td>Low cabin mounting in the front</td>
</tr>
</tbody>
</table>

## OPTIONAL EQUIPMENT

**Alternative lifting capacities and wheelbases are available**

<table>
<thead>
<tr>
<th>Truck Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra counter weights for increased stability</td>
</tr>
<tr>
<td>Extra mirrors on chassis</td>
</tr>
<tr>
<td>SMV 10–18: raised front cabin position, 250 or 500 mm higher than standard</td>
</tr>
<tr>
<td>SMV 18–65: raised front cabin position, 400 or 700 mm higher than standard</td>
</tr>
<tr>
<td>Hydraulic sliding cabin, from center to the right side, raised 400–600 mm</td>
</tr>
<tr>
<td>Fire extinguisher on truck body or inside cabin</td>
</tr>
<tr>
<td>Fire fighting system for driveline compartment (semi-automatic)</td>
</tr>
<tr>
<td>Galvanized storage boxes with lid (on bottom step)</td>
</tr>
<tr>
<td>Central greasing unit for truck and spreaders</td>
</tr>
<tr>
<td>Custom color painting, stickers and customer logos</td>
</tr>
</tbody>
</table>

## STEERING AXLE

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

## STEERING AXLE

- Extra chassis mirrors
- Slip protection: strips or aluminum plates
- Fire extinguisher on truck body
- Fire suppression system

## DRIVE AXLE

- Kessler D81/91/102/106/111
- Wide axle with 2-stage hub reduction and differential
- Oil cooled, maintenance-free wet disc brakes

## DIESEL ENGINE

- See technical info chart, certified for EU stage 2 / EPA Tier 2
- SMV 10–18: Volvo and Cummins (147–201 kW / 700–1180 Nm)
- SMV 18–33: Volvo and Cummins (180–201 kW / 990–1180 Nm)
- SMV 37–65: Volvo, Scania and Cummins (256–294 kW / 1640–2172 Nm)
- Kessler D102 in narrow axle width 3750 mm (repl 4150 mm)
- SMV 37–50: Kessler D106 extra strength
- Certified for EU stage 2, 3 a, 3B / EPA tier 2, 3, 4i
- Low-emission Catalyzer (2-way) or Combi filters (3-way), stage 2/3A
- Clean, powerful, fuel-efficient with CanBus controls
- Engine air filter, 2-stage type

## TRANSMISSION

- SMV 10–18: ZF 3WG-171 (3+3 gears), ZF 4WG-191 (3+3 gears)
- SMV 18–33: ZF 4WG-191 (4+3 gears)
- SMV 37–65: ZF 4WG-261 (4+3 gears)
- Fully automatic, softshift
- Torque converter, smooth powershift, declutch, Reverse protection, CanBus controls

## COOLING SYSTEM

- Tropical, multi-radiator
- Radiators for engine water, air for intercooler, oil for transmission
- Oil cooling / flushing for brakes
- Extra radiator / cooling circuit for hydraulic system

## HYDRAULIC SYSTEM

- Load-sensing, power-on-demand
- Smooth, accurate, high-speed lifting and lowering
- Variable piston pumps with intelligent control
- Leak-free ORFS couplings (O-ring) for entire truck
- Large oil tanks with return line filters (12 microns)
- 4 hydraulic functions (lift, tilt, sideshift and fork positioning)
- Extra hydraulic functions and quick connections
- Shock-absorbing lift mast accumulator, 1 or 3 pressure(s)
- High-pressure filters (12 um)
- HLL hydraulic longlife filters (3 um)
- Hydraulic oil cooling circuit for working hydraulics
- Hydraulic weight scale in cabin
- SMV 10–18: 1 extra lifting pump for higher lifting speeds
<table>
<thead>
<tr>
<th>STANDARD EQUIPMENT</th>
<th>OPTIONAL EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>ELECTRICAL SYSTEM</strong></td>
<td><strong>ELECTRICAL SYSTEM</strong></td>
</tr>
<tr>
<td>Alternator standard size 55–110 Ah (see engine chart)</td>
<td>Larger alternator 80–150 Ah (see engine chart)</td>
</tr>
<tr>
<td>Reverse alarm (beeper)</td>
<td>Reverse alarm (beeper)</td>
</tr>
<tr>
<td>NearGuard RFID warning system (receiver and transmitters)</td>
<td>NearGuard RFID warning system (receiver and transmitters)</td>
</tr>
<tr>
<td>NATO starting aid contact</td>
<td>NATO starting aid contact</td>
</tr>
<tr>
<td>Built-in battery charger</td>
<td>Built-in battery charger</td>
</tr>
<tr>
<td>Pre-heater for engine, transmission, hydraulics and cabin</td>
<td>Pre-heater for engine, transmission, hydraulics and cabin</td>
</tr>
<tr>
<td>Power connections 400V/3-phase for multiple preheaters</td>
<td>Power connections 400V/3-phase for multiple preheaters</td>
</tr>
<tr>
<td><strong>LIGHTS</strong></td>
<td><strong>LIGHTS</strong></td>
</tr>
<tr>
<td>Full road lighting LED: blinkers, brake lights, tail lights, position lights</td>
<td>Lamp console on cabin roof: up to 10 work lamps and 2 warning beacons</td>
</tr>
<tr>
<td>2 x LED front lights on mudguard</td>
<td>Extra work lights: Halogen (70 W), Xenon (3250 Lum), LED8 (1660 Lum) or LED16 (2900 Lum)</td>
</tr>
<tr>
<td>2 x LED reverse lights on cabin (10–25 t) / counter weight (28–65 t)</td>
<td>LED warning beacons: cabin roof, lamp console, mast, rear or other position</td>
</tr>
<tr>
<td>2 x LED work lights in lift mast</td>
<td>LED strobe warning flash lights: front, rear or other position</td>
</tr>
<tr>
<td><strong>CABIN</strong></td>
<td><strong>CABIN</strong></td>
</tr>
<tr>
<td>ErgoCab size large (L), two doors</td>
<td>ErgoCab size XL and XXL</td>
</tr>
<tr>
<td>L x W x H = 1580 x 1450 x 1620 mm</td>
<td>XL, L x W x H = 1655 x 1450 x 1720 mm (longer and higher)</td>
</tr>
<tr>
<td>XL, L x W x H = 1735 x 1600 x 1720 mm (longer and wider)</td>
<td>XL, L x W x H = 1735 x 1600 x 1720 mm (longer and wider)</td>
</tr>
<tr>
<td>Spacious, comfortable, excellent ergonomics</td>
<td>Spacious, comfortable, excellent ergonomics</td>
</tr>
<tr>
<td>Excellent visibility: no front corner posts</td>
<td>Excellent visibility: no front corner posts</td>
</tr>
<tr>
<td>Power air conditioning or climate control unit (steepless fan speed)</td>
<td>Power air conditioning or climate control unit (steepless fan speed)</td>
</tr>
<tr>
<td>Extra electric cabin heater 220V (DEFA)</td>
<td>Extra electric cabin heater 220V (DEFA)</td>
</tr>
<tr>
<td>Extra diesel powered cabin heater (Webasto)</td>
<td>Extra diesel powered cabin heater (Webasto)</td>
</tr>
<tr>
<td>Electrical connection 24V (1 x in cab roof RHS)</td>
<td>Electrical connection 24V (1 x in cab roof RHS)</td>
</tr>
<tr>
<td>Extra electrical connections 24V (cab roof or front panel RHS)</td>
<td>Extra electrical connections 24V (cab roof or front panel RHS)</td>
</tr>
<tr>
<td>3 x windshield wipers/washers</td>
<td>Interval wiper speed switches: front, roof and rear windows</td>
</tr>
<tr>
<td>Adjustable seat, seat belt, steering wheel</td>
<td>Pneumatic compressor horn: extra button or on joystick</td>
</tr>
<tr>
<td>4 hydraulic servo lift levers</td>
<td>Various compressor seats: BEGE, ISRI, Grammer</td>
</tr>
<tr>
<td>Joystick, hydraulic or electronic</td>
<td>Additional seat dampering: single or double</td>
</tr>
<tr>
<td>Tire pressure monitor: cabin display, 6 x sensors</td>
<td>Two-point or three-point seat belt</td>
</tr>
<tr>
<td>Sun blinds: front, roof or rear windows, fixed or adjustable</td>
<td>Seat heating</td>
</tr>
<tr>
<td>Alcohol lock / start-up prohibitor (Draeger)</td>
<td>Extra trainer’s seat, leather, fully foldable LHS</td>
</tr>
<tr>
<td>Reverse alarm (beeping)</td>
<td>Reverse alarm (beeping)</td>
</tr>
<tr>
<td>Universal mounting system for RHS for A4/A5 writing pad, keyboard, computer, monitor, com radio and reading lamp</td>
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</tr>
<tr>
<td>CD player / radio / MP3 player with dual loudspeakers</td>
<td>CD player / radio / MP3 player with dual loudspeakers</td>
</tr>
<tr>
<td>180 deg rotating driver seat in XL or XXL cabin size</td>
<td>180 deg rotating driver seat in XL or XXL cabin size</td>
</tr>
<tr>
<td><strong>MACHINE CONTROL</strong></td>
<td><strong>MACHINE CONTROL</strong></td>
</tr>
<tr>
<td>Intelligent machine control with EMC Master, display: MD3, size 3.5”</td>
<td>Display: MDL2, size 6.5”</td>
</tr>
<tr>
<td>Monitoring of engine, transmission, hydraulic system, service, hydraulic joystick, counters and info</td>
<td>Monitoring of engine, transmission, hydraulic system, service, hydraulic joystick, counters and info</td>
</tr>
<tr>
<td>EMC 106: Monitoring (diagnostics/parameters/setting)</td>
<td>EMC 102: Lever steering (with spring return to zero)</td>
</tr>
<tr>
<td>EMC 123: EC0 Drive (fuel consumption, saving, settings)</td>
<td>EMC 103: Lever steering (no spring return to zero)</td>
</tr>
<tr>
<td>EMC 125: DATA Log (storage of alarms and errors)</td>
<td>EMC 104: Mini-wheel steering (speed progressive steering function)</td>
</tr>
<tr>
<td><strong>LIFTING MASTS</strong></td>
<td><strong>LIFTING MASTS</strong></td>
</tr>
<tr>
<td>Duplex mast (lifting height 3–10 m), free-visibility design</td>
<td>Duplex freelift (lifting height 3–10 m) with 2 pairs lifting cylinders (mounted outside)</td>
</tr>
<tr>
<td>2-stage with high tilt mountings and 2 lifting cylinders (mounted outside)</td>
<td>2-stage with high tilt mountings and 2 lifting cylinders (mounted outside)</td>
</tr>
<tr>
<td>2 pairs of mast wheels, 2 pairs of side rollers</td>
<td>2 pairs of mast wheels, 2 pairs of side rollers</td>
</tr>
<tr>
<td>Wider mast wheels and extra side rollers</td>
<td>Wider mast wheels and extra side rollers</td>
</tr>
<tr>
<td><strong>FORK CARRIAGES</strong></td>
<td><strong>FORK CARRIAGES</strong></td>
</tr>
<tr>
<td>Fixed integral fork carriage, free-visibility design</td>
<td>Wider fork carriage, fork leveling / center leveling, turning carriage, etc</td>
</tr>
<tr>
<td>2 hydraulic cylinders for sideshift and fork positioning (long stroke)</td>
<td>Extra hydraulic functions and quick connections</td>
</tr>
<tr>
<td>2 pairs of mast wheels, 2 pairs of side rollers</td>
<td>Extra mast wheels and extra side rollers (for tough applications)</td>
</tr>
<tr>
<td>Integral forks mounted in carriage</td>
<td>Fork shaft system: quick-change (FSS / term west / hook or pin-type)</td>
</tr>
<tr>
<td><strong>FORKS</strong></td>
<td><strong>FORKS</strong></td>
</tr>
<tr>
<td>Integral forged forks with standard tapering (600 mm to tip)</td>
<td>Other fork tapering, fork cross sections, different steel qualities</td>
</tr>
<tr>
<td>Fork fixtures in 2 upper / 2 upper-rear / 2 lower roller bearings (per fork)</td>
<td>Reinforced fork fixtures in 3 upper / 3 upper-rear roller bearings (per fork)</td>
</tr>
<tr>
<td>Forked forks with standard / long tapering (tapering from 600 mm to tip)</td>
<td>XL or XXL shorter tapering (tapering from 1200 mm to tip / thicker tip)</td>
</tr>
<tr>
<td>Fork steel grade R0 651 with tensile strength 715–830 N/mm²</td>
<td>Higher steel grade CrNiMo and CrNi with strength 900–1300 N/mm²</td>
</tr>
<tr>
<td>Other fork tapering options, cross-sections, kissing forks, etc.</td>
<td>Other fork tapering options, cross-sections, kissing forks, etc.</td>
</tr>
<tr>
<td>Special solutions for steel, paper, concrete, wood, etc.</td>
<td>Special solutions for steel, paper, concrete, wood, etc.</td>
</tr>
<tr>
<td><strong>SERVICE AND PARTS</strong></td>
<td><strong>SERVICE AND PARTS</strong></td>
</tr>
<tr>
<td>Regular warranty 12 months / 2000 hours</td>
<td>Extended warranty on truck and driveline (18–36 months / 3000–6000 hours)</td>
</tr>
<tr>
<td>Spare tires, rims, complete wheels: various brands</td>
<td>Spare tires, rims, complete wheels: various brands</td>
</tr>
<tr>
<td>Spare part kits: basic, extended, special</td>
<td>Spare part kits: basic, extended, special</td>
</tr>
<tr>
<td>Complete filter kits: 2000 hours up to 8000 hours</td>
<td>Complete filter kits: 2000 hours up to 8000 hours</td>
</tr>
</tbody>
</table>
## Lifting Mast Height

### Free Visibility Design

### Technical Data, Fork Lift Trucks

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td><strong>Duplex no freelift (2-stage)</strong></td>
<td><strong>Duplex freelift (2-stage)</strong></td>
<td><strong>Triplex freelift (3-stage)</strong></td>
<td><strong>SMV 37-1200 B – 45-1200 B</strong></td>
</tr>
<tr>
<td><strong>Lift</strong></td>
<td><strong>Mast height</strong></td>
<td><strong>Freelift</strong></td>
<td><strong>Lift</strong></td>
</tr>
<tr>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
<td>(mm)</td>
</tr>
<tr>
<td>3000</td>
<td>2945 / 4415</td>
<td>1500</td>
<td>3000</td>
</tr>
<tr>
<td>3500</td>
<td>3195 / 4915</td>
<td>1500</td>
<td>3500</td>
</tr>
<tr>
<td>4000</td>
<td>3445 / 5415</td>
<td>2000</td>
<td>4000</td>
</tr>
<tr>
<td>4500</td>
<td>3695 / 5915</td>
<td>2250</td>
<td>4500</td>
</tr>
<tr>
<td>5000</td>
<td>3945 / 6415</td>
<td>2500</td>
<td>5000</td>
</tr>
<tr>
<td>5500</td>
<td>4195 / 6915</td>
<td>2750</td>
<td>5500</td>
</tr>
<tr>
<td>6000</td>
<td>4445 / 7415</td>
<td>3000</td>
<td>6000</td>
</tr>
<tr>
<td>6500</td>
<td>4695 / 7915</td>
<td>3250</td>
<td>6500</td>
</tr>
<tr>
<td>7000</td>
<td>4945 / 8415</td>
<td>3500</td>
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<td>8000</td>
<td>-</td>
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</tr>
<tr>
<td>9000</td>
<td>-</td>
<td>3750</td>
<td>9000</td>
</tr>
</tbody>
</table>
| **Note 1:** For 3-high container handlers, choose 7000 mm mast + 2230 mm for spreader = 9230 mm (3 x 9'6")
| **Note 2:** For 4-high container handlers, 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

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SMV 10-600 B – 18-900 B</th>
<th>SMV 10-600 / 18-900 B &amp; SMV 18-1200 B / 33-1200 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>Make</td>
<td>Units</td>
</tr>
<tr>
<td></td>
<td>Volvo</td>
<td>TAD-620-VE</td>
</tr>
<tr>
<td>10</td>
<td>Emission approval, EU /</td>
<td>St 2 / Tier 2</td>
</tr>
<tr>
<td>12</td>
<td>US</td>
<td></td>
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<tr>
<td>18</td>
<td>Power / max speed (ISO</td>
<td>kW/rpm</td>
</tr>
<tr>
<td>20</td>
<td>ISO 3046</td>
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<tr>
<td>25</td>
<td>Torque / speed (ISO</td>
<td>Nm/rpm</td>
</tr>
<tr>
<td>30</td>
<td>3046</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Displacement / cylinders</td>
<td>L/-</td>
</tr>
<tr>
<td>40</td>
<td>Alternator power / capacity</td>
<td>W/Amp</td>
</tr>
<tr>
<td>45</td>
<td>Fuel consumption (normal)</td>
<td>L/hour</td>
</tr>
<tr>
<td>50</td>
<td>Transmission (make / model)</td>
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Fork lift trucks 37 – 65 tons

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SMV 37-1200 B – 65-1200 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine</td>
<td>Make</td>
</tr>
<tr>
<td>37</td>
<td>Emission approval, EU / US</td>
</tr>
<tr>
<td>40</td>
<td>Power / max speed (ISO 3046)</td>
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<td>45</td>
<td>ISO 3046</td>
</tr>
<tr>
<td>50</td>
<td>Torque / speed (ISO 3046)</td>
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<tr>
<td>55</td>
<td>Displacement / cylinders</td>
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<tr>
<td>60</td>
<td>Alternator power / capacity</td>
</tr>
</tbody>
</table>

Lifting capacity vs. load center
## TECHNICAL DATA

**Fork lift trucks 10 – 18 tons**

### LIFTING DATA

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>Identifier</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lifting capacity</td>
<td>kg</td>
<td>10000 / 12000 / 13600 / 10000</td>
</tr>
<tr>
<td>Load center</td>
<td>mm</td>
<td>600 / 600 / 600 / 1200</td>
</tr>
<tr>
<td>Full lifting capacity up to lifting height</td>
<td>mm</td>
<td>7000 / 7000 / 7000 / 7000</td>
</tr>
<tr>
<td>Last load center</td>
<td>L4</td>
<td>835 / 835 / 840 / 915</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>L3</td>
<td>3000 (opt. 2800) / 3000 (opt. 2800) / 3250 / 3250</td>
</tr>
</tbody>
</table>

### SERVICE WEIGHT

| Service weight | kg         | 14800 / 15200 / 16100 / 18900 |

### AXLE PRESSURE

| Axle pressure front, unloaded / at rated load | kg | 7900 / 22600 / 7900 / 25600 / 8300 / 27900 / 10400 / 26900 / 8500 / 2000 |

### TIRE PRESSURE

| Axle pressure rear, unloaded / at rated load | kg | 6900 / 2200 / 7300 / 1600 / 7800 / 1800 |

### TRANSMISSION

| Transmission type, function, shifting | K3 | Fully automatic transmission, torque convertor, reverse protection, powershift |

### ENGINE

| Engine power (min - max) | kW (EU2 / EU3b) | 147 - 201 / 147 - 201 / 147 - 201 / 147 - 201 |

### DRIVE AXLE MODEL

| Drive axle model | Kessler D81 (PL478) with differential |

### BRAKE SYSTEM

| Driving brake system, type | Oil-cooled multiple wet disc brakes (WDB) |

### OTHERS

| Load-sensing hydraulics / power-on-demand | Yes / yes |

| Hydraulic oil pressure | MPa | 22 / 25 / 20 / 23 |

| Diesel / hydraulic tank volumes | Lit | 131 / 152 / 168 / 192 / 168 / 192 |

| Batteries (voltage / capacity) | V / Ah | 2 x 12 / 88 / 2 x 12 / 88 / 2 x 12 / 88 / 2 x 12 / 88 |

| Noise level inside cab (LpAe) EN 12053 | dB(A) | 68 / 66 / 68 / 66 / 68 / 66 / 68 / 66 |

### NOTES

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

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

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

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

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>12000</td>
<td>15000</td>
<td>16000</td>
<td>16000</td>
<td>16000</td>
<td>18000</td>
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<tr>
<td>19900</td>
<td>21700</td>
<td>19500</td>
<td>21300</td>
<td>22400</td>
<td>20200</td>
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<tr>
<td>10500 / 29800</td>
<td>10700 / 34200</td>
<td>10500 / 33400</td>
<td>10500 / 34800</td>
<td>10700 / 35800</td>
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<td>10700 / 37400</td>
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<tr>
<td>9400 / 2200</td>
<td>11000 / 2600</td>
<td>9000 / 2000</td>
<td>10800 / 2500</td>
<td>11800 / 2700</td>
<td>9500 / 2200</td>
<td>11400 / 2600</td>
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<td><strong>Pneumatic</strong></td>
<td><strong>Pneumatic</strong></td>
<td><strong>Pneumatic</strong></td>
<td><strong>Pneumatic</strong></td>
<td><strong>Pneumatic</strong></td>
<td><strong>Pneumatic</strong></td>
</tr>
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<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
<td>12.00 x 20° / PR20</td>
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<tr>
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<td>8.00 x 20°</td>
<td>8.00 x 20°</td>
<td>8.00 x 20°</td>
<td>8.00 x 20°</td>
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<td>1.0 / 1.0</td>
<td>1.0 / 1.0</td>
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<td>&lt; 500 - 5055</td>
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<td>0.40 / 0.35</td>
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<td>0.40 / 0.35</td>
<td>0.40 / 0.35</td>
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<td>0.40 / 0.40</td>
<td>0.40 / 0.40</td>
<td>0.40 / 0.40</td>
<td>0.40 / 0.40</td>
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<td>34 / 27</td>
<td>29 / 23</td>
<td>30 / 24</td>
<td>30 / 24</td>
<td>28 / 22</td>
<td>28 / 22</td>
<td>27 / 21</td>
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<td>147 - 201</td>
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<td>700 - 1180</td>
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### TECHNICAL DATA

#### Fork lift trucks 18 – 33 tons

<table>
<thead>
<tr>
<th>Model</th>
<th>SMV 18-1200 B</th>
<th>SMV 20-1200 B</th>
<th>SMV 22-1200 B</th>
<th>SMV 23.6-1200 B</th>
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<tr>
<td><strong>Dimensions</strong></td>
<td>Identifier</td>
<td>Units</td>
<td>Identifier</td>
<td>Units</td>
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<tr>
<td>Lifting capacity</td>
<td>kg</td>
<td>18000</td>
<td>20000</td>
<td>22000</td>
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<tr>
<td>Load center</td>
<td>mm</td>
<td>1200</td>
<td>1200</td>
<td>1200</td>
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<tr>
<td>Full lifting capacity up to lifting height</td>
<td>mm</td>
<td>9000</td>
<td>9000</td>
<td>9000</td>
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<tr>
<td>Last load center</td>
<td>mm</td>
<td>1090</td>
<td>1090</td>
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<tr>
<td>Wheelbase</td>
<td>mm</td>
<td>4000</td>
<td>4000</td>
<td>4250</td>
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<tr>
<td><strong>Weight</strong></td>
<td>kg</td>
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<td>31500</td>
<td>32000</td>
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<td>Axle pressure front, unloaded / at rated load</td>
<td>kg</td>
<td>16700 / 45000</td>
<td>16700 / 48100</td>
<td>16700 / 50500</td>
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<tr>
<td>Axle pressure rear, unloaded / at rated load</td>
<td>kg</td>
<td>13300 / 3000</td>
<td>14800 / 3400</td>
<td>15300 / 3500</td>
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<tr>
<td><strong>Tire</strong></td>
<td>Pneumatic</td>
<td>Pneumatic</td>
<td>Pneumatic</td>
<td>Pneumatic</td>
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<tr>
<td>Tire dimension / ply rating, front &amp; rear</td>
<td>Inch</td>
<td>14.00 x 24&quot; / PR24</td>
<td>14.00 x 24&quot; / PR24</td>
<td>14.00 x 24&quot; / PR24</td>
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<tr>
<td>Rim dimensions, front &amp; rear</td>
<td>Inch</td>
<td>10.00 x 24&quot;</td>
<td>10.00 x 24&quot;</td>
<td>10.00 x 24&quot;</td>
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<td>Tire pressure, front / rear</td>
<td>MPa</td>
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<td>0.9 / 0.9</td>
<td>0.9 / 0.9</td>
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<td>Number of wheels, front / rear (X = driven)</td>
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<td>Track width, front / rear</td>
<td>T1 / T2</td>
<td>mm</td>
<td>2199 / 2336</td>
<td>2199 / 2336</td>
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<td><strong>Wheels</strong></td>
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<tr>
<td><strong>Performance</strong></td>
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<tr>
<td>Lift height</td>
<td>mm</td>
<td>4000</td>
<td>4000</td>
<td>4000</td>
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<tr>
<td>Mast tilt, backward / forward</td>
<td>β / α deg</td>
<td>5 / 10</td>
<td>5 / 10</td>
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<tr>
<td><strong>Load center</strong></td>
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<td></td>
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<tr>
<td>Fork carriage type</td>
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<tr>
<td>Fork carriage width</td>
<td>mm</td>
<td>3000</td>
<td>3000</td>
<td>3000</td>
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<tr>
<td>Fork positioning (min - max / outside)</td>
<td>mm</td>
<td>950 / 2550 (opt. 650 / 2810)</td>
<td>1000 / 2860 (opt. 750 / 2860)</td>
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<tr>
<td>Fork side shift (max / at fork position)</td>
<td>mm</td>
<td>± 400 / 1550 (opt. ± 550 / 1510)</td>
<td>± 400 / 1550 (opt. ± 550 / 1510)</td>
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<tr>
<td>Ground clearance (mast / middle / steer axle)</td>
<td>mm</td>
<td>3020</td>
<td>3020</td>
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<tr>
<td>Axle width</td>
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<td>Engine power (min - max)</td>
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<td>180 - 201</td>
<td>180 - 201</td>
<td>180 - 201</td>
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<td>Engine torque (min - max)</td>
<td>Nm</td>
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<td>990 - 1180</td>
<td>990 - 1180</td>
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<tr>
<td>Transmission, gears forward + reverse</td>
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<tr>
<td>Drive axle model</td>
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<tr>
<td>Driving brake system, type</td>
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<tr>
<td>Parking brake system, type</td>
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</tr>
<tr>
<td>Steering system / steer axle type</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Load-sensing hydraulics / power-on-demand</strong></td>
<td>Yes / yes</td>
<td>Yes / yes</td>
<td>Yes / yes</td>
<td>Yes / yes</td>
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<tr>
<td>Hydraulic oil pressure</td>
<td>MPa</td>
<td>19</td>
<td>20</td>
<td>22</td>
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<tr>
<td>Diesel / hydraulic tank volumes</td>
<td>Lit</td>
<td>280 / 312</td>
<td>280 / 312</td>
<td>336 / 368</td>
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<tr>
<td>Batteries (voltage / capacity)</td>
<td>V / Ah</td>
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<td>2 x 12 / 140</td>
<td>2 x 12 / 140</td>
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<tr>
<td>Noise level inside cab (LpaZ) EN 12053</td>
<td>dB(A)</td>
<td>70 / 68</td>
<td>70 / 68</td>
<td>70 / 68</td>
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<td>Noise level outside (LWA) 2000/14/EC</td>
<td>dB(A)</td>
<td>110</td>
<td>110</td>
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</tbody>
</table>

**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

- **c1**
- **c2**
- **L2**
- **H1**
- **W1**
- **r1**
- **r2**
- **t1**
- **t2**

---

### SMV 25-1200 B

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<td>41900</td>
<td>44500</td>
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<td>16700 / 55100</td>
<td>20300 / 63100</td>
<td>20500 / 68600</td>
<td>20800 / 70400</td>
<td>20700 / 65100</td>
<td>21400 / 71100</td>
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<tr>
<td>17400 / 4000</td>
<td>19300 / 4500</td>
<td>20800 / 4700</td>
<td>21600 / 5000</td>
<td>21200 / 4800</td>
<td>23100 / 5400</td>
</tr>
</tbody>
</table>

#### Pneumatic

- **14.00 x 24" / PR24**
- **11.25 x 25" / PR28**
- **0.9 / 0.9**
- **4x / 2**
- **2199 / 2336**

#### Euclidean

- **H3**
- **H4**

#### Force

- **tire type**: Pneumatic
- **axle pressure rear, unloaded / at rated load**: kg
- **axle pressure front, unloaded / at rated load**: kg
- **towing power, at rated load, 0/2 km/h**: kn / kn

#### Transmission

- **transmission type, function, shifting**: Fully automatic transmission, torque convertor, reverse protection, powershift

#### Engine

- **engine power (min - max)**: kW
- **towing power, at rated load, 0/2 km/h**: kn / kn

#### Fork Carriage

- **Fork carriage type**: Hydraulic-powered sideshift & fork positioner
- **Fork dimensions (width x thickness x length)**: mm

#### Drive Axle

- **drive axle width**

#### Overall Length

- **overall length (to back of fork)**: mm

#### Dimensions

- **Lost load center**: mm

#### Noise Level

- **noise level outside (LWA)**: dB(a)

#### Steering System

- **steering system / steer axle type**: Hydraulic power steering / HD axle with double-acting cylinder

#### Driving Brake System

- **driving brake system, type**: Oil-cooled multiple wet disc brakes (WdB)

---

**Kessler D91 (PL40B) 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**

**Yes / yes**

**Yes / yes**

---

**24**

**20**

**336 / 368**

**2 x 12 / 140**

**70 / 68**

**75**

---

**110**

---

**Wheels Liftin G data**

---

**Lifting data**

---

**Noise level outside (LWA) 2000/14/eC dB(a) 110 110 110 110**

---

**Dimensions identifier units**

- **mm**
- **deg**
- **kg**
- **kn / kn**
- **nm**

---

**Dimension measurement identifiers**
# TECHNICAL DATA

**Fork lift trucks 37 – 65 tons**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SMV 37-1200 B</th>
<th>SMV 42-1200 B</th>
<th>SMV 45-1200 B</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>Identifier</td>
<td>Units</td>
<td>Units</td>
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<tr>
<td>Lifting capacity</td>
<td>kg</td>
<td>37000</td>
<td>42000</td>
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<tr>
<td>Load center</td>
<td>LCI</td>
<td>mm</td>
<td>1200</td>
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<tr>
<td>Full lifting capacity up to lifting height</td>
<td>mm</td>
<td>9000</td>
<td>9000</td>
</tr>
<tr>
<td>Lift load center</td>
<td>L4</td>
<td>mm</td>
<td>1240</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>L3</td>
<td>mm</td>
<td>5000</td>
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<tr>
<td>Service weight</td>
<td>kg</td>
<td>49600</td>
<td>50100</td>
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<tr>
<td>Axle pressure front, unloaded / at rated load</td>
<td>kg</td>
<td>25700 / 80800</td>
<td>25600 / 86300</td>
</tr>
<tr>
<td>Axle pressure rear, unloaded / at rated load</td>
<td>kg</td>
<td>23900 / 5800</td>
<td>24500 / 5800</td>
</tr>
<tr>
<td><strong>Tire</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tire type</td>
<td></td>
<td>Pneumatic</td>
<td>Pneumatic</td>
</tr>
<tr>
<td>Tire dimension / ply rating, front &amp; rear</td>
<td>Inch</td>
<td>18.00 x 25&quot; / PR40</td>
<td>18.00 x 25&quot; / PR40</td>
</tr>
<tr>
<td>Rim dimensions, front &amp; rear</td>
<td>Inch</td>
<td>13.00 x 25&quot;</td>
<td>13.00 x 25&quot;</td>
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<tr>
<td>Tire pressure, front / rear</td>
<td>MPa</td>
<td>1.0 / 1.0</td>
<td>1.0 / 1.0</td>
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<tr>
<td>Number of wheels, front / rear (X = driven)</td>
<td></td>
<td>4X / 2</td>
<td>4X / 2</td>
</tr>
<tr>
<td>Track width, front / rear</td>
<td></td>
<td>T1 / T2</td>
<td>mm</td>
</tr>
<tr>
<td><strong>Wheels</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Mast tilt, backward / forward</strong></td>
<td>deg</td>
<td>5 / 10</td>
<td>5 / 10</td>
</tr>
<tr>
<td><strong>Lifting height</strong></td>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mast height, retracted / extended</td>
<td>H3 - H4</td>
<td>mm</td>
<td>4550 / 6485</td>
</tr>
<tr>
<td><strong>Overall height</strong></td>
<td>mm</td>
<td>3660 / 2550</td>
<td>3660 / 2550</td>
</tr>
<tr>
<td><strong>Lift angle (to back of fork)</strong></td>
<td></td>
<td>L2</td>
<td>mm</td>
</tr>
<tr>
<td><strong>Drive axle width</strong></td>
<td>mm</td>
<td>W1</td>
<td>4160</td>
</tr>
<tr>
<td><strong>Fork dimensions (width x thickness x length)</strong></td>
<td>mm</td>
<td>W x T x L</td>
<td>300 x 135 x 2400</td>
</tr>
<tr>
<td><strong>Fork carriage type</strong></td>
<td></td>
<td>Sideshift &amp; fork positioner</td>
<td></td>
</tr>
<tr>
<td><strong>Fork carriage width</strong></td>
<td>mm</td>
<td>W2</td>
<td>3400</td>
</tr>
<tr>
<td><strong>Fork positioning (min - max / outside)</strong></td>
<td>mm</td>
<td></td>
<td>1950 / 2750 (opt. 850 / 3150)</td>
</tr>
<tr>
<td><strong>Fork sideshift (max / at fork position)</strong></td>
<td>mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Ground clearance (mast / middle / steer axle)</strong></td>
<td>mm</td>
<td>G1 / G2 / G3</td>
<td>300 / 440 / 520</td>
</tr>
<tr>
<td><strong>Axle width</strong></td>
<td>mm</td>
<td>A1</td>
<td>10700</td>
</tr>
<tr>
<td><strong>Turning radius (inner - outer)</strong></td>
<td>mm</td>
<td>R1 - R2</td>
<td>750 - 6900</td>
</tr>
<tr>
<td><strong>Drive speed forward, unloaded / at rated load</strong></td>
<td>km/h</td>
<td>24 / 23</td>
<td>24 / 23</td>
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<tr>
<td><strong>Lowering speed, unloaded / at rated load</strong></td>
<td>m/s</td>
<td></td>
<td>0.26 / 0.21</td>
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<tr>
<td><strong>Gradeability, at rated load, 0/2 km/h</strong></td>
<td>%</td>
<td>37 / 28</td>
<td>34 / 26</td>
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<tr>
<td><strong>Towing power, at rated load, 0/2 km/h</strong></td>
<td>kN</td>
<td></td>
<td>309 / 248</td>
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<tr>
<td><strong>Engine power (min - max)</strong></td>
<td>kW</td>
<td>EU2 / EU3b</td>
<td>256 - 294</td>
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<tr>
<td><strong>Engine torque (min - max)</strong></td>
<td>Nm</td>
<td>EU2 / EU3b</td>
<td>1640 - 2172</td>
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<tr>
<td><strong>Transmission, gears forward + reverse</strong></td>
<td></td>
<td>DANA 4 + 4 / ZF 4 + 3</td>
<td></td>
</tr>
<tr>
<td><strong>Drive axle model</strong></td>
<td></td>
<td>Kessler 0102</td>
<td></td>
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<tr>
<td><strong>Drive brake system, type</strong></td>
<td></td>
<td>Oil-cooled multiple wet disc brakes (WDB)</td>
<td></td>
</tr>
<tr>
<td><strong>Parking brake system, type</strong></td>
<td></td>
<td>Dry single disc / spring release</td>
<td></td>
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<tr>
<td><strong>Steering system / steer axle type</strong></td>
<td></td>
<td>Hydraulic power steering / HD axle with double-acting cylinder</td>
<td></td>
</tr>
<tr>
<td><strong>Load-sensing hydraulics / power-on-demand</strong></td>
<td></td>
<td>Yes / yes</td>
<td>Yes / yes</td>
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<tr>
<td><strong>Hydraulic oil pressure</strong></td>
<td>MPa</td>
<td></td>
<td>20</td>
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<tr>
<td><strong>Diesel / hydraulic tank volumes</strong></td>
<td>Lit</td>
<td></td>
<td>410 / 480</td>
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<tr>
<td><strong>Batteries (voltage / capacity)</strong></td>
<td>V - Ah</td>
<td></td>
<td>2 x 12 / 140</td>
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<tr>
<td><strong>Noise level inside cab (LpA) EN 12053</strong></td>
<td>dBA</td>
<td>EU2 / EU3b</td>
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<td><strong>Noise level outside (LWA) 2000/14/EC</strong></td>
<td>dBA</td>
<td>EU2 / EU3b</td>
<td>111</td>
</tr>
</tbody>
</table>

**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

<table>
<thead>
<tr>
<th>SMV 50-1200 B</th>
<th>SMV 52-1200 B</th>
<th>SMV 60-1500 B</th>
<th>SMV 65-1200 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>50000</td>
<td>52000</td>
<td>60000</td>
<td>65000</td>
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<td>1200</td>
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<td>6000</td>
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<td>1430</td>
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<tr>
<td>6000</td>
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<tr>
<td>58100</td>
<td>61700</td>
<td>89600</td>
<td>89600</td>
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<tr>
<td>30500 / 101700</td>
<td>32000 / 106800</td>
<td>48300 / 139600</td>
<td>48300 / 139600</td>
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<tr>
<td>27800 / 6400</td>
<td>29700 / 6900</td>
<td>41300 / 10000</td>
<td>41300 / 10000</td>
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</tbody>
</table>

**Pneumatic**

<table>
<thead>
<tr>
<th>SMV 50-1200 B</th>
<th>SMV 52-1200 B</th>
<th>SMV 60-1500 B</th>
<th>SMV 65-1200 B</th>
</tr>
</thead>
<tbody>
<tr>
<td>18.00 x 25&quot; / PR40</td>
<td>18.00 x 33&quot; / PR36</td>
<td>21.00 x 35&quot; / PR40 + 18.00 x 33&quot; / PR36</td>
<td>13.00 x 33&quot; + 11.25 x 25&quot;</td>
</tr>
<tr>
<td>13.00 x 25&quot;</td>
<td>13.00 x 33&quot;</td>
<td>13.00 x 33&quot; + 11.25 x 25&quot;</td>
<td>13.00 x 33&quot; + 11.25 x 25&quot;</td>
</tr>
<tr>
<td>1.0 / 1.0</td>
<td>1.0 / 1.0</td>
<td>1.0 / 1.0</td>
<td>1.0 / 1.0</td>
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<tr>
<td>4X / 2</td>
<td>4X / 2</td>
<td>4X / 2</td>
<td>4X / 2</td>
</tr>
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<td>3030 / 2612</td>
<td>3030 / 2911</td>
<td>3225 / 2911</td>
<td>3225 / 2911</td>
</tr>
<tr>
<td>300 x 150 x 2400</td>
<td>300 x 150 x 2400</td>
<td>300 x 200 x 2400</td>
<td>300 x 200 x 2400</td>
</tr>
<tr>
<td>Sideshift &amp; fork positioner</td>
<td>Sideshift &amp; fork positioner</td>
<td>300 x 200 x 2400</td>
<td>300 x 200 x 2400</td>
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<tr>
<td>3400</td>
<td>3400</td>
<td>4400</td>
<td>4400</td>
</tr>
<tr>
<td>1950 / 2750 (opt. 850 / 3150)</td>
<td>1950 / 2750 (opt. 850 / 3150)</td>
<td>1950 / 2750 (opt. 850 / 3150)</td>
<td>1950 / 2750 (opt. 850 / 3150)</td>
</tr>
<tr>
<td>300 / 440 / 270</td>
<td>300 / 600 / 400</td>
<td>350 / 750 / 400</td>
<td>350 / 750 / 400</td>
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<tr>
<td>12000</td>
<td>12100</td>
<td>12300</td>
<td>12300</td>
</tr>
<tr>
<td>1200 - 8050</td>
<td>1200 - 8050</td>
<td>950 - 8100</td>
<td>950 - 8100</td>
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<td>24 / 22</td>
<td>26 / 23</td>
<td>29 / 22</td>
<td>29 / 22</td>
</tr>
<tr>
<td>24 / 22</td>
<td>26 / 23</td>
<td>29 / 22</td>
<td>29 / 22</td>
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<tr>
<td>0.21 / 0.16</td>
<td>0.21 / 0.16</td>
<td>0.21 / 0.16</td>
<td>0.21 / 0.16</td>
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<td>0.40 / 0.40</td>
<td>0.40 / 0.40</td>
<td>0.22 / 0.26</td>
<td>0.22 / 0.26</td>
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<td>23 / 17</td>
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<td>313 / 253</td>
<td>260 / 214</td>
<td>360 / 275</td>
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<td>256 / 294</td>
<td>256 / 294</td>
<td>256 / 294</td>
<td>256 / 294</td>
</tr>
<tr>
<td>1640 / 2172</td>
<td>1640 / 2172</td>
<td>1640 / 2172</td>
<td>1640 / 2172</td>
</tr>
</tbody>
</table>

**Kessler D106**

- Fully automatic transmission, torque convertor, reverse protection, powershift
- Oil-cooled multiple wet disc brakes (WDB)
- Dry single disc / spring release
- Hydraulic power steering / HD axle with double-acting cylinder
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™.