

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

REACH STACKERS

KONECRANES[®]
Lifting Businesses™

SMV 4531 TBE5

REACH STACKER FOR EVERYDAY CONTAINER HANDLING





CUTS BACK ON COSTS, MAINTAINS HIGH QUALITY

Based on decades of experience in providing lifting solutions for container terminals around the world, we have made a reach stacker that has all the essential features to work hard every day, year round. TBE is not only safe and reliable, it is also the most economical lift truck for basic container handling.

QUALITY YOU CAN TRUST

We make all our lift trucks with heart, and the TBE is no exception. Konecranes high quality core components, such as strong chassis, proven major components, and durable spreader, enable a steady performance and high uptime.

DISTINCT SAVINGS IN COSTS AND GLOBAL SUPPORT

We have standardized the TBE package to enable fast delivery. By focusing only the essentials in the design, also your investment costs are lower. Our global service and spare part supply chains give you full support worldwide.

BENEFITS

- Reliable lift truck with solid performance
- Smart load-sensing hydraulics means less fuel consumption, reduced noise and emissions
- Safe lifting and driving with heavy loads thanks to the chassis, strong boxed lifting boom and better visibility
- Lower investment costs and fast delivery
- Optional features available

1 Welded box-type lift boom

A strong box-type lift boom which lowers stresses and extended design lift of the lift boom. The four-plate box section gives excellent bending resistance and torsional stiffness, resulting in a precise and predictive driving behavior.

2 Modern and durable lifting spreader

Top-lift for 20/40 ft containers, +105/-195 degrees rotation, +/-800 mm total sideshift, 4 lift eyes for sling cargo. Mechanical pile slope (MPS ±2 deg).

3 Excellent visibility

Excellent rear and forward visibility from the driver's seat due to e.g. the counterweight design.

4 Heavy-duty box-type chassis

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

5 Smart load-sensing hydraulics

The hydraulic pumps sense the load and adapt the lifting power to the weight of the load. The lifting system provides maximum power only when really needed.

6 Powerful engine

Certified low-emission engine provides extra high torque at low revs for reduced fuel consumption and low noise levels. EU / EPA stage 3a and 3 engines.

7 Excellent stability

Wide, strong drive axle and long wheelbase means stability and safe lifting of heavy loads.

8 Enhanced operating ergonomics

Handrails and access platforms on the left side. Basic electrical system with an MD3 controller and a 3.5" colour display.

TECHNICAL DATA: SMV 4531 TBE5

| | | |
|---|----------------|--|
| Lifting data | | |
| Lift capacity at load center L1 / maximum height | kg | 45000 / 42000 |
| Lift capacity at load center L2 / maximum height | kg | 31000 / 31000 |
| Driving data | | |
| Incline, driving ability at rated load at 0 km/h / 2 km/h | % | 28 / 22 |
| Towing ability at rated load at 0 km/h / 2 km/h | kN | 335 / 265 |
| Service weight / Axle pressure | | |
| Service weight | kg | 71000 |
| Engine (electronic controlled) | | |
| Make | | Volvo (stage 3a) |
| Transmission (electronic controlled) | | |
| Transmission make | | DANA |
| Drive axle & brake system | | |
| Drive axle make | | Kessler |
| Drive axle type / drive axle width | / mm | Differential + hub reduction / 4160 |
| Driving brake system, type / affected wheels | | Oil cooled wet disc brakes / drive wheels |
| Parking brake system, type / affected wheels | | Dry disc brake / spring release / drive wheels |
| Steer axle & steer system | | |
| Steer axle type / steering system | | Double acting cylinder / hydraulic servo ass. |
| Wheels | | |
| No. of wheels, front + rear / type (*driven) | | 4* + 2 / pneumatic |
| Tire pressure front / rear | MPa | 1.0 / 1.0 |
| Tire dimensions (Ply rating) front / rear | Inch (No) | 18.00 x 25" (PR 40) / 18.00 x 25" (PR 40) |
| Rim dimensions front / rear | Inch | 13.00 x 25" / 13.00 x 25" |
| Hydraulic system | | |
| Hydraulic system / pump type | | Load sensing system / variable piston pump |
| Power-on-demand / Low energy | | Yes / yes |
| Tank volumes | | |
| Fuel, net | L | 650 |
| Hydraulic system | L | 850 |
| Lift equipment & spreader | | |
| Spreader make / type | | ELME 817-MPS / Toplift (container) |
| Spreader functions | | 20-40 ft containers |
| Spreader locking containers / lifting eyes | | 4 x top twist locks / 4 x in corners |
| Sideshift stroke / rotation / pile slope type (pile slope stroke) | mm / deg / deg | +/- 800 / +95/-195 / Manual MPS (+/- 2.0) |
| Others | | |
| Safety, monitoring & overload system / programmable / color | | Electronic system EMC / yes / yes |
| Manual hydraulic tilting cab | | Yes |
| Noise level (inside Cab / Lm) | DIN 45635 | dB(A) 68 |
| Noise level (inside Cab / LpAZ) | EN 12053 | dB(A) 75 |
| Noise level (outside at 7 m / Lwa) | 2000/14/EC | dB(A) 111 |
| Norms & standards | | |
| Stability of Industrial Trucks | EN ISO 3691-2 | Yes |
| Safety of Industrial Trucks | EN ISO 3691-2 | Yes |



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

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