



FM-X Technical Data.

Rider Reach Trucks.

FM-X 10 (10 N)

FM-X 12 (12 N)

FM-X 14 (14 N)

FM-X 17 (17 N)

FM-X 20 (20 N)

FM-X 25



In accordance with VDI guidelines 2198, this specification sheet applies to the standard model only.
For special masts, attachments etc. specifications may vary.

| | | | | | STILL | STILL | |
|----------------|--|--|---|-------|-----------------------|-----------------------|--------------|
| Description | 1.1 | Manufacturer | | | | | |
| | 1.2 | Manufacturer's model designation | | | FM-X 10 | FM-X 12 | |
| | 1.3 | Drive (electric, diesel, petrol, LPG) | | | Electric | Electric | |
| | 1.4 | Operation (hand, pedestrian, stand-on, rider seated) | | | Seat | Seat | |
| | 1.5 | Load capacity | Q | kg | 1000 | 1200 | |
| | 1.6 | Load centre | c | mm | 600 | 600 | |
| | 1.8 | Load distance ¹⁾ | x | mm | 239 | 311 | |
| | 1.9 | Wheel base | y | mm | 1237 | 1309 | |
| | Weights | 2.1 | Tare weight incl. battery | | kg | 2872 | 2889 |
| 2.3 | | Axle load closed fork, without load, drive side/load side | | kg | 1806/1066 | 1863/1026 | |
| 2.4 | | Axle load extended fork, with load, drive side/load side | | kg | 735/3137 | 664/3425 | |
| 2.5 | | Axle load closed fork, with load, drive side/load side | | kg | 1483/2389 | 1563/2526 | |
| Wheels track | | 3.1 | Tyres (solid rubber, Polyurethane, air) | | | Polyurethane | Polyurethane |
| | 3.2 | Tyre size drive side | | mm | 360x130 | 360x130 | |
| | 3.3 | Tyre size load side | | mm | 310x102 | 310x102 | |
| | 3.5 | Wheels, number (x = driven) load side/drive side | | | 2/1 x | 2/1 x | |
| | 3.6 | Track width, load side | b ₁₀ | mm | 1140 | 1140 | |
| | 3.7 | Track width, drive side | b ₁₁ | mm | - | - | |
| | Basic dimensions | 4.1 | Mast/fork carriage tilt, forward/backward ³⁾ | | ° | 1/3 | 1/3 |
| 4.2 | | Closed mast height | h ₁ | mm | 2450 | 2450 | |
| 4.3 | | Free lift | h ₂ | mm | 1890 | 1890 | |
| 4.4 | | Lift | h ₃ | mm | 5750 | 5750 | |
| 4.5 | | Extended mast height | h ₄ | mm | 6310 | 6310 | |
| 4.7 | | Height over OHG (cabin) | h ₆ | mm | 2200 | 2200 | |
| 4.8 | | Height of seat/stand | h ₇ | mm | 1050/550 | 1050/550 | |
| 4.10 | | Height of straddle legs/load wheel covers | h ₈ | mm | 330 | 330 | |
| 4.19 | | Overall length ²⁾ | l ₁ | mm | 2379 | 2379 | |
| 4.20 | | Length incl. fork back ²⁾ | l ₂ | mm | 1229 | 1229 | |
| 4.21 | | Overall width | b ₁ /b ₂ | mm | 1250/1220 | 1250/1220 | |
| 4.22 | | Dimension of fork teeth | s/e/l | mm | 40/80/1150 | 40/100/1150 | |
| 4.23 | | Fork carriage DIN 15173, class/form A, B | | | 2/A | 2/A | |
| 4.24 | | Width of fork carriage, top/bottom | b ₃ | mm | 850/730 GN/SS 850/650 | 850/730 GN/SS 850/650 | |
| 4.25 | | Outer fork width | b ₅ | mm | 600 | 620 | |
| 4.26 | | Width between straddle legs/load platform | b ₄ | mm | 920 | 920 | |
| 4.28 | | Forward shift ¹⁾ | l ₄ | mm | 458 | 530 | |
| 4.31 | | Floor clearance beneath mast with load | m ₁ | mm | 90 | 90 | |
| 4.32 | | Floor clearance at centre of wheel base | m ₂ | mm | 81 | 81 | |
| 4.33 | | Width of working aisle for 1000 x 1200 pallets crosswise ²⁾ | A _{st} | mm | 2638 | 2654 | |
| 4.34 | Width of working aisle for 800 x 1200 pallets lengthwise ²⁾ | A _{st} | mm | 2709 | 2715 | | |
| 4.35 | Turning radius | W _a | mm | 1468 | 1540 | | |
| 4.37 | Length incl. load wheels | l ₇ | mm | 1641 | 1713 | | |
| Performance | 5.1 | Driving speed with/without load | | km/h | 12/12 | 14/14 | |
| | 5.2 | Lift speed with/without load | | m/s | 0.47/0.70 | 0.45/0.70 | |
| | 5.3 | Lowering speed with/without load | | m/s | 0.56/0.50 | 0.56/0.50 | |
| | 5.4 | Shift speed with/without load ⁴⁾ | | m/s | 0.15 | 0.15 | |
| | 5.7 | Climbing capacity with/without load | | % | 10/15 | 10/15 | |
| | 5.8 | Max. climbing capacity with/without load | | % | 15/20 | 15/20 | |
| | 5.9 | Acceleration time with/without load (over 10 m) | | s | 4.8/4.5 | 4.9/4.6 | |
| | 5.10 | Operation brake | | | gen./hydr.,mech. | gen./hydr.,mech. | |
| | Electric motors | 6.1 | Drive motor, S2 performance 60 min | | kW | 6.5 | 6.5 |
| | | 6.2 | Lift motor, S3 performance 15% | | kW | 13 | 13 |
| 6.3 | | Battery according to IEC 254-2; A,B,C, no | | | IEC 254-2, C | IEC 254-2, C | |
| 6.4 | | Battery voltage, nominal capacity K ₅ | | V/Ah | 420 | 420 | |
| 6.5 | | Weight of battery +/- 5% (depending on the manufacturer) | | Kg | 750 | 750 | |
| 6.6 | | Power consumption according to VDI cycle | | kWh/h | | | |
| Other | 8.1 | Type of steering control | | | Three-phase | Three-phase | |
| | 8.2 | Operating pressure for attachments | | bar | 140 | 140 | |
| | 8.3 | Oil quantity for attachments | | l/min | 18 | 18 | |
| | 8.4 | Noise level at driver's ear | | dB(A) | 68 | 68 | |

All measurements including sideshift mast or sidshift forks (carriage)

¹⁾ Reduced in steps of 72 mm depending on the size of the battery.

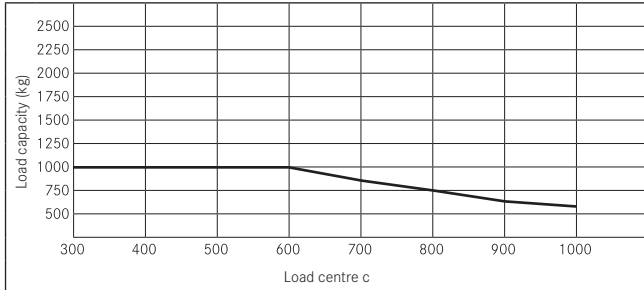
²⁾ A_{st} extended in steps of 72 mm depending on the size of battery.

³⁾ May vary according to the mast, with side shift/fork tilt 2°/4°.

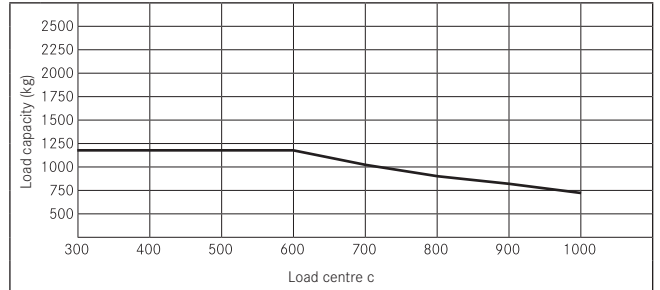
⁴⁾ Shift speed 0.13 m/s for closed mast heights h₁ = 3,600 mm and above.

| | | | |
|-----------------------|-----------------------|-----------------------|-----------------------|
| STILL | STILL | STILL | STILL |
| FM-X 14 | FM-X 17 | FM-X 20 | FM-X 25 |
| Electric | Electric | Electric | Elektro |
| Seat | Seat | Seat | Seat |
| 1400 | 1700 | 2000 | 2500 |
| 600 | 600 | 600 | 600 |
| 347 | 409 | 409 | 481 |
| 1381 | 1453 | 1525 | 1669 |
| 3174 | 3191 | 3408 | 3819 |
| 1998/1176 | 2050/1141 | 2162/1246 | 2413/1406 |
| 601/3973 | 484/4407 | 501/4907 | 585/5734 |
| 1702/2872 | 1791/3100 | 1870/3538 | 2184/4135 |
| Polyurethane | Polyurethane | Polyurethane | Polyurethane |
| 360x130 | 360x130 | 360x140 | 360x140 |
| 310x102 | 310x102 | 310x112 | 310x112 |
| 2/1 x | 2/1 x | 2/1 x | 2/1 x |
| 1140 | 1140 | 1150 | 1150 |
| - | - | - | - |
| 1/3 | 1/3 | 1/3 | 1/3 |
| 2450 | 2450 | 2450 | 2450 |
| 1890 | 1880 | 1880 | 1828 |
| 5750 | 5750 | 5580 | 5580 |
| 6310 | 6320 | 6150 | 6202 |
| 2200 | 2200 | 2235 | 2235 |
| 1050/550 | 1050/550 | 1085/585 | 1085/585 |
| 330 | 330 | 332 | 332 |
| 2415 | 2425 | 2497 | 2569 |
| 1265 | 1275 | 1347 | 1419 |
| 1250/1220 | 1250/1220 | 1270/1220 | 1270/1220 |
| 40/100/1150 | 50/100/1150 | 50/100/1150 | 50/120/1150 |
| 2/A | 2/A | 2/A | 2/A |
| 850/730 GN/SS 850/650 | 850/730 GN/SS 850/650 | 850/730 GN/SS 850/650 | 850/730 GN/SS 850/650 |
| 620 | 620 | 620 | 640 |
| 920 | 920 | 920 | 920 |
| 565 | 633 | 633 | 710 |
| 90 | 90 | 90 | 100 |
| 81 | 81 | 81 | 81 |
| 2699 | 2727 | 2800 | 2894 |
| 2755 | 2771 | 2844 | 2923 |
| 1612 | 1684 | 1757 | 1900 |
| 1785 | 1857 | 1935 | 2073 |
| 14/14 | 14/14 | 14/14 | 14/14 |
| 0.43/0.68 | 0.40/0.68 | 0.34/0.58 | 0.30/0.50 |
| 0.56/0.52 | 0.55/0.52 | 0.53/0.50 | 0.52/0.50 |
| 0.15 | 0.15 | 0.15 | 0.15 |
| 10/15 | 10/15 | 10/15 | 10/15 |
| 15/20 | 15/20 | 15/20 | 15/20 |
| 5.1/4.7 | 5.3/4.8 | 5.5/5 | 5.5/5 |
| gen./hydr.,mech. | gen./hydr.,mech. | gen./hydr.,mech. | gen./hydr.,mech. |
| 6.5 | 6.5 | 6.5 | 6.5 |
| 13 | 13 | 13 | 13 |
| IEC 254-2, C | IEC 254-2, C | IEC 254-2, C | IEC 254-2, C |
| 420 | 48/420 | 48/560 | 48/700 |
| 750 | 750 | 940 | 1120 |
| Three-phase | Three-phase | Three-phase | Three-phase |
| 140 | 140 | 140 | 140 |
| 18 | 18 | 18 | 18 |
| 68 | 68 | 68 | 68 |

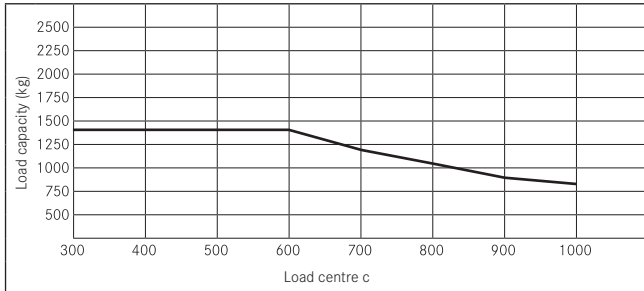
Load capacities FM-X 10 (10 N)



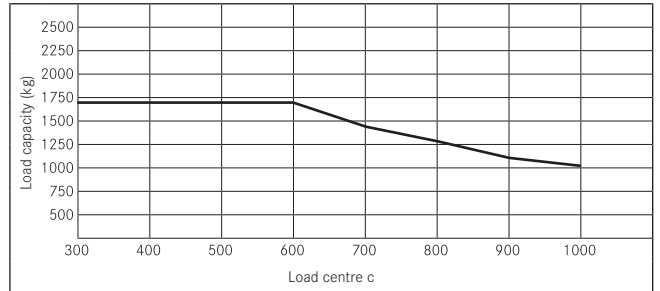
Load capacities FM-X 12 (12 N)



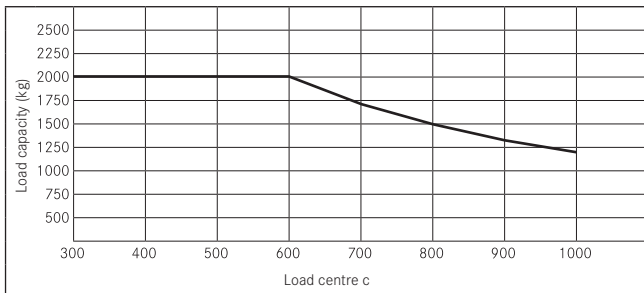
Load capacities FM-X 14 (14 N)



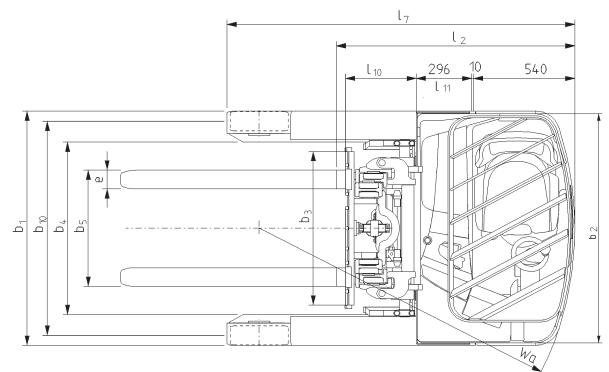
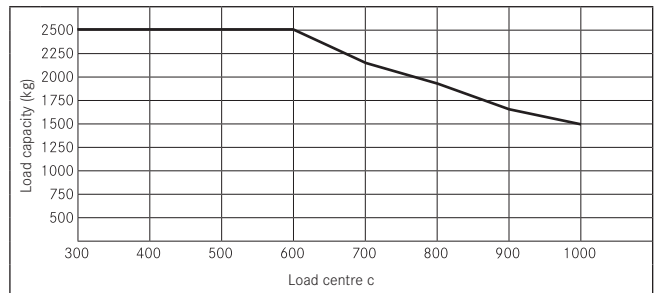
Load capacities FM-X 17 (17 N)



Load capacities FM-X 20 (20 N)



Load capacities FM-X 25



In accordance with VDI guidelines 2198, this specification sheet applies to the standard model only.
For special masts, attachments, tyres etc. specifications may vary.

| | | | | STILL | STILL | STILL | |
|------------------|--------------------------|--|--------------------------------|------------------|------------------|------------------|--------------|
| Description | 1.1 | Manufacturer | | FM-X 10N | FM-X 12N | FM-X 14N | |
| | 1.2 | Manufacturer's model designation | | Electric | Electric | Electric | |
| | 1.3 | Drive (electric, diesel, petrol, LPG) | | Seat | Seat | Seat | |
| | 1.4 | Operation (hand, pedestrian, stand-on, rider seated) | | 1000 | 1200 | 1400 | |
| | 1.5 | Load capacity/load | Q | kg | 600 | 600 | 600 |
| | 1.6 | Load centre | c | mm | 149 | 221 | 266 |
| | 1.8 | Load distance ¹⁾ | x | mm | 1237 | 1309 | 1381 |
| | 1.9 | Wheel base | y | mm | 2825 | 2842 | 3127 |
| | Weights | 2.1 | Tare weight incl. battery | | kg | 1650/1175 | 1711/1131 |
| 2.3 | | Axle load closed fork, without load, drive side/load side | | kg | 610/3215 | 537/3505 | 475/4052 |
| 2.4 | | Axle load extended fork, with load, drive side/load side | | kg | 1252/2573 | 1323/2719 | 1448/3079 |
| 2.5 | | Axle load closed fork, with load, drive side/load side | | kg | Polyurethane | Polyurethane | Polyurethane |
| 3.1 | | Tyres (solid rubber, polyurethane, air) | | | 360x130 | 360x130 | 360x130 |
| Wheels track | 3.2 | Tyre size drive side | | mm | 310x102 | 310x102 | 310x102 |
| | 3.3 | Tyre size load side | | mm | 2/1 x | 2/1 x | 2/1 x |
| | 3.5 | Wheels, number (x = driven) load side/drive side | | | 1010 | 1010 | 1010 |
| | 3.6 | Track width, load side | b ₁₀ | mm | - | - | - |
| | 3.7 | Track width, drive side | b ₁₁ | mm | 2/4 | 2/4 | 2/4 |
| | 4.1 | Mast tilt/fork tilt forward/backward | | ° | 2450 | 2450 | 2450 |
| | 4.2 | Closed mast height | h ₁ | mm | 1890 | 1890 | 1890 |
| Basic dimensions | 4.3 | Free lift | h ₂ | mm | 5750 | 5750 | 5750 |
| | 4.4 | Lift | h ₃ | mm | 6310 | 6310 | 6310 |
| | 4.5 | Extended mast height | h ₄ | mm | 2200 | 2200 | 2200 |
| | 4.7 | Height over OHG (cabin) | h ₆ | mm | 1050/550 | 1050/550 | 1050/550 |
| | 4.8 | Height of seat/stand | h ₇ | mm | 330 | 330 | 330 |
| | 4.10 | Height of straddle legs/covers | h ₈ | mm | 2469 | 2469 | 2496 |
| | 4.19 | Overall length ²⁾ | l ₁ | mm | 1319 | 1319 | 1346 |
| | 4.20 | Length incl. fork back ²⁾ | l ₂ | mm | 1120/1090 | 1120/1090 | 1120/1090 |
| | 4.21 | Overall width | b ₁ /b ₂ | mm | 40/80/1150 | 40/100/1150 | 40/100/1150 |
| | 4.22 | Dimension of fork teeth | s/e/l | mm | 2A | 2A | 2A |
| | 4.23 | Fork carriage DIN 15173, class/form A, B | | | 850/650 | 850/650 | 850/650 |
| | 4.24 | Width of fork carriage, top/bottom | b ₃ | mm | 600 | 620 | 620 |
| | 4.25 | Outer fork width | b ₅ | mm | 790 | 790 | 790 |
| | 4.26 | Width between straddle legs/load platform | b ₄ | mm | 387 | 457 | 494 |
| | 4.28 | Forward shift ¹⁾ | l ₄ | mm | 90 | 90 | 90 |
| | 4.31 | Floor clearance beneath mast with load | m ₁ | mm | 81 | 81 | 81 |
| | 4.32 | Floor clearance at centre of wheel base | m ₂ | mm | 2710 | 2724 | 2761 |
| | 4.33 | Width of working aisle for 1000 x 1200 pallets crosswise ²⁾ | A _{st} | mm | 2793 | 2798 | 2829 |
| | 4.34 | Width of working aisle for 800 x 1200 pallets lengthwise ²⁾ | A _{st} | mm | 1468 | 1540 | 1612 |
| | 4.35 | Turning radius | W _a | mm | 1641 | 1713 | 1785 |
| 4.37 | Length incl. load wheels | l ₇ | mm | | | | |
| Performance | 5.1 | Driving speed with/without load | | km/h | 12/12 | 14/14 | 14/14 |
| | 5.2 | Lift speed with/without load | | m/s | 0.47/0.70 | 0.45/0.70 | 0.43/0.68 |
| | 5.3 | Lowering speed with/without load | | m/s | 0.56/0.50 | 0.56/0.50 | 0.56/0.52 |
| | 5.4 | Shift speed with/without load ⁴⁾ | | m/s | 0.15 | 0.15 | 0.15 |
| | 5.7 | Climbing capacity with/without load | | % | 10/15 | 10/15 | 10/15 |
| | 5.8 | max. climbing capacity with/without load | | % | 15/20 | 15/20 | 15/20 |
| | 5.9 | Acceleration time with/without load (over 10 m) | | s | 4.8/4.5 | 4.9/4.6 | 5.1/4.7 |
| 5.10 | Operation brake | | | gen./hydr.,mech. | gen./hydr.,mech. | gen./hydr.,mech. | |
| Electric motors | 6.1 | Drive motor, S2 performance 60 min | | kW | 6.5 | 6.5 | 6.5 |
| | 6.2 | Lift motor, S3 performance 15% | | kW | 13 | 13 | 13 |
| | 6.3 | Battery according to IEC 254-2; A,B,C, no | | | IEC 254-2, B | IEC 254-2, B | IEC 254-2, B |
| | 6.4 | Battery voltage, nominal capacity K _s | | V/Ah | 420 | 420 | 420 |
| | 6.5 | Weight of battery +/- 5% (depending on the manufacturer) | | Kg | 750 | 750 | 750 |
| | 6.6 | Power consumption according to VDI cycle | | kWh/h | | | |
| Other | 8.1 | Type of steering control | | | Three-phase | Three-phase | Three-phase |
| | 8.2 | Operating pressure for attachments | | bar | 140 | 140 | 140 |
| | 8.3 | Oil quantity for attachments | | l/min | 18 | 18 | 18 |
| | 8.4 | Noise level at driver's ear | | dB(A) | 68 | 68 | 68 |

All measurements including sideshift mast or sidshift forks (carriage)

¹⁾ Reduced in steps of 90 mm depending on the size of the battery.

²⁾ A_{st} extended in steps of 90 mm depending on the size of battery.

³⁾ Shift speed 0.13 m/s for closed mast heights h₁ = 3,600 mm and above.

| | |
|------------------|------------------|
| STILL | STILL |
| FM-X 17N | FM-X 20N |
| Electric | Electric |
| Seat | Seat |
| 1700 | 2000 |
| 600 | 600 |
| 328 | 310 |
| 1453 | 1525 |
| 3144 | 3352 |
| 1898/1246 | 1978/1374 |
| 356/4488 | 350/5002 |
| 1530/3314 | 1541/3811 |
| Polyurethane | Polyurethane |
| 360x130 | 360x140 |
| 310x102 | 310x112 |
| 2/1 x | 2/1 x |
| 1010 | 1010 |
| - | - |
| 2/4 | 2/4 |
| 2450 | 2450 |
| 1880 | 1880 |
| 5750 | 5580 |
| 6320 | 6150 |
| 2200 | 2200 |
| 1050/550 | 1050/550 |
| 330 | 330 |
| 2506 | 2596 |
| 1356 | 1446 |
| 1120/1090 | 1120/1090 |
| 50/100/1150 | 50/100/1150 |
| 2A | 2A |
| 850/650 | 850/650 |
| 620 | 620 |
| 790 | 790 |
| 565 | 547 |
| 90 | 90 |
| 81 | 81 |
| 2788 | 2871 |
| 2847 | 2932 |
| 1687 | 1756 |
| 1857 | 1929 |
| 14/14 | 14/14 |
| 0.40/0.68 | 0.34/0.58 |
| 0.55/0.52 | 0.53/0.50 |
| 0.15 | 0.15 |
| 10/15 | 10/15 |
| 15/20 | 15/20 |
| 5.3/4.8 | 5.5/5 |
| gen./hydr.,mech. | gen./hydr.,mech. |
| 6.5 | 6.5 |
| 13 | 13 |
| IEC 254-2, B | IEC 254-2, B |
| 420 | 560 |
| 750 | 940 |
| | |
| Three-phase | Three-phase |
| 140 | 140 |
| 18 | 18 |
| 68 | 68 |

Driver's compartment.

- Spacious driver's compartment with adjustable controls. The driver is always inside the contour of the vehicle for maximum safety.
- Damped driver's compartment (optional) reduces shocks from uneven floors and therefore the likelihood of back injuries.
- Proportional adjustment of seat and footplate (optional), electrically controlled. Ergonomic control layout ensures an optimum all-round view regardless of the driver's physique.
- Comfortable, tilting seat with multiple adjustment to suit individual drivers, plus tilting mast, enable a good view of the load while reducing the potential for neck injuries.
- Open access steps allow easy entry and exit.
- Large individual storage compartments, DIN A4 document compartment, bottle holder.
- Overhead guard designed for 360° visibility and maximum safety.

Controls.

- Ergonomic joystick allows operation of all hydraulic movements without changing grip; integrated buttons control auxiliary hydraulics; stick weighted to enable the driver to "feel" the driving direction; all movements can be operated simultaneously; maintenance-free sensor technology.
- Optional 4-lever control of hydraulic functions.
- Full electric 360° steering (optional 180°) for smooth, precise positioning. The number of revolutions for a 360° steering angle can be set to suit the driver or the conditions in the warehouse.
- Direct-drive safety steering system.
- Self-centring steering for stable, fatigue-free straight-line travel at all speeds.

Drives.

- Powerful maintenance-free drives for driving, lifting and steering, with energy recovery during braking.
- Fully encapsulated AC drives, which provide powerful acceleration and regenerative braking, are protected against dust and water ingress.

Hydraulics.

- Proportional valve technology for silent, fast and sensitive movements.
- Noise-optimised pump drive with improved efficiency.
- Automatic fork and side shift centering at the press of a button (optional). Immediate centering ensures the safe alignment of a pallet between the load wheels and horizontal positioning of the forks, especially with height pre-selection systems.
- High throughput of goods is provided by fast, safe working speeds for lifting/lowering, mast shift forwards, sideways and tilt.
- Shift measuring system allows soft and variable speed transitions.
- Single valve block and power chain with hydraulic quick-locks mean low service and maintenance costs.

Mast.

- Triplex free view mast with free lift; special profiles with high torsion resistance. Routing chains and pipes within the contour of the cylinders allows maximum visibility through the mast.
- Standard mast side shift with free-view fork carriage. Absence of hydraulic pipes provides greater visibility and also makes for easier serviceability. The mast tilt moves the centre of gravity towards the truck.
- Optional integrated side shift with fork tilt for less movement of loads at high lift heights.
- The narrow construction of the mast allows optimum view around the load.
- End of reach damping minimises mast transition noise.

Brake system.

- Maintenance-free regenerative braking with energy recovery and high efficiency.
- Maximum safety by 3-circuit brake system. Regenerative braking when releasing the accelerator pedal. When operating the brake pedal additional regenerative deceleration is activated. If the pedal is pressed further the hydraulic load wheel brake is actuated.
- Electromagnetic disc brake for emergency stop and parking.

Electrical equipment.

- LCD display with automatic brightness adjustment. Clear, user-friendly display of all operating states. Indicator wizard for height pre-selection assists the driver and helps safely increase throughput when stacking and retrieving.
- Truck control with five drive programs. Driving speed, acceleration and braking characteristics can be set independently for each driving direction, and also to suit the driver or the conditions in the warehouse.
- Lift height indication, lift height pre-selection and camera systems all contribute to an efficient warehousing process and help increase the throughput of goods.
- FleetManager or PIN code system and optional keyless access provide an overview of the operation of the fleet and prevent unauthorised use of the vehicle.
- Electrical and mechanical interfaces for easy retro-fitting of warehouse administration and truck control systems.

Battery.

- Exchange by hoist or, optionally, laterally with roller conveyor.
- High performance reserve for single and multi-shift operations due to battery capacities up to 930 Ah.
- Intelligent battery management limits the maximum current when lifting and ensures a long service life of the battery.

Service.

- Easy removal of the covers to allow best access for service.
- Simple diagnostics and parameterisation.
- Extended diagnostics via central interface.

Safety.

- CSC (Curve Speed Control) automatically reduces speed on bends to ensure maximum safety when being operated by inexperienced drivers or handling fragile loads.
- Optispeed system (optional) governs the lift and lower speeds to the maximum safe rate for the load weight and operating height: uncomfortable, stepped speed changes as the mast rises are done away with, the truck always operates at optimum performance, and realisable gains in productivity are achieved. Extended Optispeed packages are available which further adapt truck functions to warehouse conditions.
- The trucks are built in accordance with the EC machinery guideline 98/37/EG and are CE labelled.
- STILL is certified to ISO-9001.

| | | FM-X | | | | | | | | | | | |
|-----------------------------------|---|--|----|----|----|----|----|-----|-----|-----|-----|-----|---|
| | | 10 | 12 | 14 | 17 | 20 | 25 | 10N | 12N | 14N | 17N | 20N | |
| Driver's space | Adjustable position of the steering wheel and horizontal adjustment of the seat | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Comfort seat with hydraulic damping and weight adjustment | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Comfort tilt seat | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | |
| | Damped driver's compartment for best comfort on uneven floors and thresholds | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | |
| | Heated seat | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Imitation leather seat with vinyl upholstery | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Proportional adjustment of the seat and foot plate | ○ | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | |
| | Free view mast with view optimised over head guard | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Joystick (hydraulic control without changing grip) | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Fingertip (hydraulic control with 4 levers) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| Steering | 5 driving profiles, selectable by the driver | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Integrated storage compartments, bottle holder | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Display: clear display of the current status | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Full electric 360° degree steering | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Full electric 180° steering | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Full electric steering with reverse function | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Redundant safety system for steering | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Mast | Triplex free view mast with free lift | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● |
| | | Hydraulic mast side shift with mast tilt | ● | ● | ● | ● | ● | ● | - | - | - | - | - |
| | | Hydraulic side shift with fork tilt | - | ○ | ○ | ○ | ○ | ○ | ● | ● | ● | ● | ● |
| Mast transition damping | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Free view fork carriage | | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Hydraulics | Noise optimised hydraulic pump | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Additional hydraulics, single or double | - | - | ○ | ○ | ○ | ○ | - | - | ○ | ○ | ○ | |
| | Proportional valve technology for sensitive movements | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Individual parameterisation of the hydraulic functions | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Drives | Simultaneous movement of several hydraulic functions | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Stepless acceleration up to the maximum speed | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Maintenance-free drives for driving, lift and steering | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Fully capsulated components protected against dirt and dust | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Brakes | Integrated current and temperature sensors monitoring the functions | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Regenerative brake system | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Energy recuperation when braking | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| Additional safety and performance | Hydraulic load wheel brake as additional brake | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Electromagnetic disc brake as parking brake and for emergency stops | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Keyless pin code access with button | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Flash light | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | 360° light | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Spot lights | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Macrolon or mesh wire OHG cover | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Steering angle controlled speed reduction | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Lift switch-off for intermediate lift and/or lift end position | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Lift height indication | - | ○ | ○ | ○ | ○ | ○ | - | ○ | ○ | ○ | ○ | |
| | Lift height pre-selection | - | ○ | ○ | ○ | ○ | ○ | - | - | ○ | ○ | ○ | |
| | Fleet Manager: access control | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Optispeed: Lift height and load controlled speed reduction | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Energy recuperation lowering | - | - | ○ | ○ | ○ | ○ | - | - | ○ | ○ | ○ | |
| | Acoustic travel warning (Digisound) | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| Battery system | Battery exchange by hoist | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | ● | |
| | Battery conveyor for lateral exchange of battery | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Tray for 420 Ah battery | ● | ● | ● | ● | - | - | ● | ● | ● | ● | - | |
| | Tray for 560 Ah battery | ○ | ○ | ○ | ○ | ● | - | ○ | ○ | ○ | ○ | ● | |
| | Tray for 700 Ah battery | - | - | ○ | ○ | ○ | ● | - | - | ○ | ○ | ○ | |
| | Tray for 900 Ah battery | - | - | - | - | ○ | ○ | - | - | - | - | ○ | |
| Additional equipment | Battery transport and exchange rack | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Different fork lengths | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Preparation data terminal | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Automatic Fork tilt and side shift centring on pressing a button | - | ○ | ○ | ○ | ○ | ○ | - | ○ | ○ | ○ | ○ | |
| | Cold storage version | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Cold storage package | - | ○ | ○ | ○ | ○ | ○ | - | ○ | ○ | ○ | ○ | |
| | Heated comfort cold storage cabin | - | ○ | ○ | ○ | ○ | ○ | - | - | - | - | - | |
| | Heated comfort cold storage cabin, drive in version | - | - | - | - | - | - | - | - | ○ | ○ | ○ | |
| | Track width 1650/1670 mm | - | - | ○ | ○ | ○ | ○ | - | - | - | - | - | |
| | Load rest | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Panoramic rear view mirror | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Overhead guards for drive-in racks | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Lateral guide rollers for drive-in racks | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Load wheel covers | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| | Shift and lowering lock | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | |
| Fork tooth camera system | - | ○ | ○ | ○ | ○ | ○ | - | - | ○ | ○ | ○ | | |
| Two-pedal version | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | | |

● Standard

○ Option





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