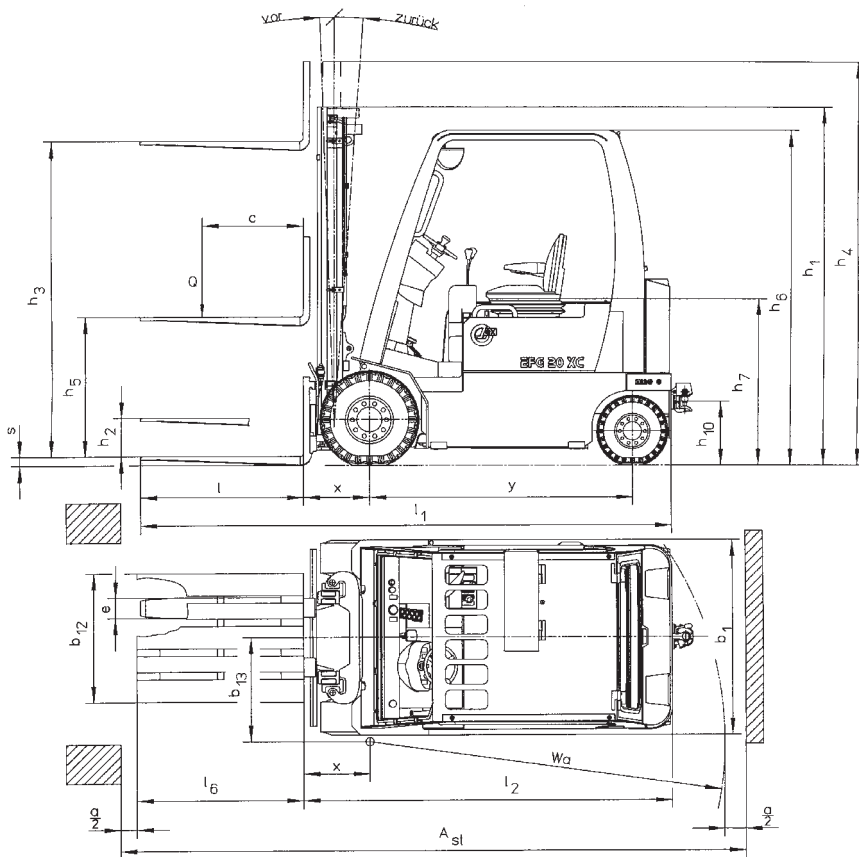




Electric Fork Lift Truck

Explosion-proof, three-phase current techn.

EFG



- $A_{st} = W_a + x + l_6 + a$
- A_{st} = Aisle width between stacks
- a = Safety distance = 200 mm
- l_6 = Pallet width (e.g. 800 or 1000 mm)
- b_{12} = Pallet length (e.g. 1200 mm)

EFG 12-25XC / ..H2 / ..ST
Technical Data



Technical Data

Electric Fork Lift Truck (four-wheeled version)

(in accord. with VDI 2198)

EFG 12-25XC/..H2/..ST; explosion-proof, three-phase current technology

Explosion protection: the devices are tested and approved by the Physikalisch Technische Bundesanstalt (PTB) (Physical-Technical Federal Institute) for use in areas at risk of explosion according to the following protection classes****: Gas explosion protection - suitable for use in explosive areas, zones 1 and 2 according to BetrSichV within explosion sub-groups IIA and IIB or IIB + H2 and temperature classes T1 to T4; Dust explosion protection: - suitable for use in explosive areas, zones 21 and 22 according to BetrSichV at surface temperatures of maximum 130°C.

| Description | | | | | | |
|---------------------|---|-------------------------------------|------------------|------------------|------------------|------------------|
| 1.1 | Manufacturer (Make [abbreviation]) | | MIAG | MIAG | MIAG | MIAG |
| 1.2 | Type designation of the manufacturer | | EFG 12XC.. | EFG 16XC.. | EFG 20XC.. | EFG 25XC.. |
| 1.3 | Drive Battery, Diesel, Petrol, fuel gas, mains current | | Battery | Battery | Battery | Battery |
| 1.4 | Operation Hand, Pedestrian, stand-on, driver-seated | | Driver seated | Driver seated | Driver seated | Driver seated |
| 1.5 | Carrying capacity / Load | Q (t) | 1,2 | 1,6 | 2,0 | 2,5 |
| 1.6 | Load centre | c (mm) | 500 | 500 | 500 | 500 |
| 1.8 | Load distance , mast lowered | x (mm) | 407*-468 | 407*-468 | 407*-468 | 407*-468 |
| 1.9 | Wheel base | y (mm) | 1620 | 1620 | 1620 | 1620 |
| Weights **** | | | | | | |
| 2.1 | Dead weight | kg | 3650 | 3810 | 4070 | 4380 |
| 2.2 | Axle load laden front/rear | kg | 3950 / 900 | 4590 / 820 | 5250 / 820 | 6080 / 800 |
| 2.3 | Axle load unladen front/rear | kg | 2110 / 1540 | 2110 / 1700 | 2140 / 1930 | 2180 / 2200 |
| Wheels, Chassis | | | | | | |
| 3.1 | Tyres Pneumatic, Solid, Vulcollan | | Sup.cush./Pneum. | Sup.cush./Pneum. | Sup.cush./Pneum. | Sup.cush./Pneum. |
| 3.2 | Dimension in front | | 23x9-10/20PR | 23x9-10/20PR | 23x9-10/20PR | 23x9-10/20PR |
| 3.3 | Dimension at the rear | | 18x7-8/14 PR | 18x7-8/14 PR | 18x7-8/14 PR | 18x7-8/14 PR |
| 3.5 | Wheels number front / rear, x=driven | | 2x / 2 | 2x / 2 | 2x / 2 | 2x / 2 |
| 3.6 | Truck width front | b ₁₀ (mm) | 986 | 986 | 986 | 986 |
| 3.7 | Truck width rear | b ₁₁ (mm) | 944 | 944 | 944 | 944 |
| Base dimensions *** | | | | | | |
| 4.1 | Mast tilt /fork carriage, ago / back | Degree | 3 / 6 | 3 / 6 | 3 / 6 | 3 / 6 |
| 4.2 | Height of mast, lowered | h ₁ (mm) | 2075 | 2075 | 2075 | 2075 |
| 4.3 | Free lift | h ₂ (mm) | 150 | 150 | 150 | 150 |
| 4.4 | Lift at double mast | h ₃ (mm) | 2700 | 2700 | 2700 | 2700 |
| 4.5 | Height of mast, raised | h ₄ (mm) | 3425 | 3425 | 3425 | 3425 |
| 4.7 | Height above overhead guard (cabin) | h ₆ (mm) | 2090 | 2090 | 2090 | 2090 |
| 4.8 | Seat height (seat load) | h ₇ (mm) | 1030 | 1030 | 1030 | 1030 |
| 4.12 | Height coupling | h ₁₀ (mm) | 405 | 405 | 405 | 405 |
| 4.19 | Length total | l ₁ (mm) | 3267 | 3267 | 3267 | 3267 |
| 4.20 | Length including shank | l ₂ (mm) | 2267 | 2267 | 2267 | 2267 |
| 4.21 | Width total | b ₁ /b ₂ (mm) | 1210 | 1210 | 1210 | 1210 |
| 4.22 | Fork dimensions | s/e/l (mm) | 48/128/1000 | 48/128/1000 | 48/128/1000 | 48/128/1000 |
| 4.23 | Fork carriage according to DIN 15173 / ISO 2328, A/ B | | A | A | A | A |
| 4.24 | Fork carriage width | b ₃ (mm) | 1100 | 1100 | 1100 | 1100 |
| 4.31 | Ground clearance with load under lifting frame | m ₁ (mm) | 125 | 125 | 125 | 125 |
| 4.32 | Ground clearance centre wheel base (lowest point) | m ₂ (mm) | 110 | 110 | 110 | 110 |
| 4.33 | Aisle width for pallets 1000x1200 cross | A _{st} (mm) | 3795 | 3795 | 3795 | 3795 |
| 4.34 | Aisle width for pallets 800x1200 cross | A _{st} (mm) | 3595 | 3595 | 3595 | 3595 |
| 4.35 | Turning radius | W _a (mm) | 2185 | 2185 | 2185 | 2185 |
| 4.36 | min. fulcrum distance | b ₁₃ (mm) | 645 | 645 | 645 | 645 |
| Performance | | | | | | |
| 5.1 | Speed travel laden / unladen | km / h | 18 / 18 | 17 / 18 | 16 / 18 | 15 / 18 |
| 5.2 | Speed lift laden / unladen | m / s | 0,26 / 0,28 | 0,26 / 0,28 | 0,25 / 0,28 | 0,24 / 0,28 |
| 5.3 | Speed lower laden / unladen | m / s | 0,28 / 0,20 | 0,30 / 0,20 | 0,32 / 0,20 | 0,36 / 0,20 |
| 5.5 | draw-bar pull laden / unladen(outside expl.-proof area) | N | - | - | - | - |
| 5.6 | max. draw-bar pull laden/unladen (outs. expl.-proof area) | N | 12000/10000 | 12000/10000 | 12000/10000 | 12000/10000 |
| 5.7 | Climbing capacity with / without load | % | 15 / 15 | 14 / 15 | 13 / 15 | 12 / 15 |
| 5.8 | Max. gradeability laden / unladen | % | - | - | - | - |
| 5.9 | Acceleration period laden / unladen | s | 5 / 5 | 6 / 5 | 7 / 6 | 8 / 6 |
| 5.10 | Service brake | | electr. / hydr. | electr. / hydr. | electr. / hydr. | electr. / hydr. |
| E-Motor | | | | | | |
| 6.1 | Traction motor, output / 1 hour rating | kW | 7 | 7 | 7 | 7 |
| 6.2 | Lift motor, output / 1 hour rating | kW | 5 | 5 | 5 | 5 |
| 6.3 | Battery according to DIN 43531 / 35 / 36, A / B / C, no | | no | no | no | no |
| 6.4 | Battery voltage / Capacity K _s | V / Ah | 80 / 345-375 | 80 / 345-375 | 80 / 345-375 | 80 / 345-375 |
| 6.5 | Battery weight | kg | 930-1000 | 930-1000 | 930-1000 | 930-1000 |
| Others | | | | | | |
| 8.1 | Motor control type | | pulse | pulse | pulse | pulse |
| 8.2 | Working pressure for attachments | bar | max. 200 | max. 200 | max. 200 | max. 200 |
| 8.3 | Oil quantity for attachments | l / min | max. 50 | max. 50 | max. 50 | max. 50 |
| 8.4 | Sound level at driver ' s ear to EN12053 | dB (A) | - | - | - | - |
| 8.5 | Coupling, Kind / Type DIN | | 243 A | 243 A | 243 A | 243 A |

* statements for design with SV mast (without integrated side shift) with basic equipment
 ** from 3500 mm lift height reduction of carrying capacity to 80 %
 *** with mast design in series, further designs on request
 **** depending on device version