


# Electric reach truck

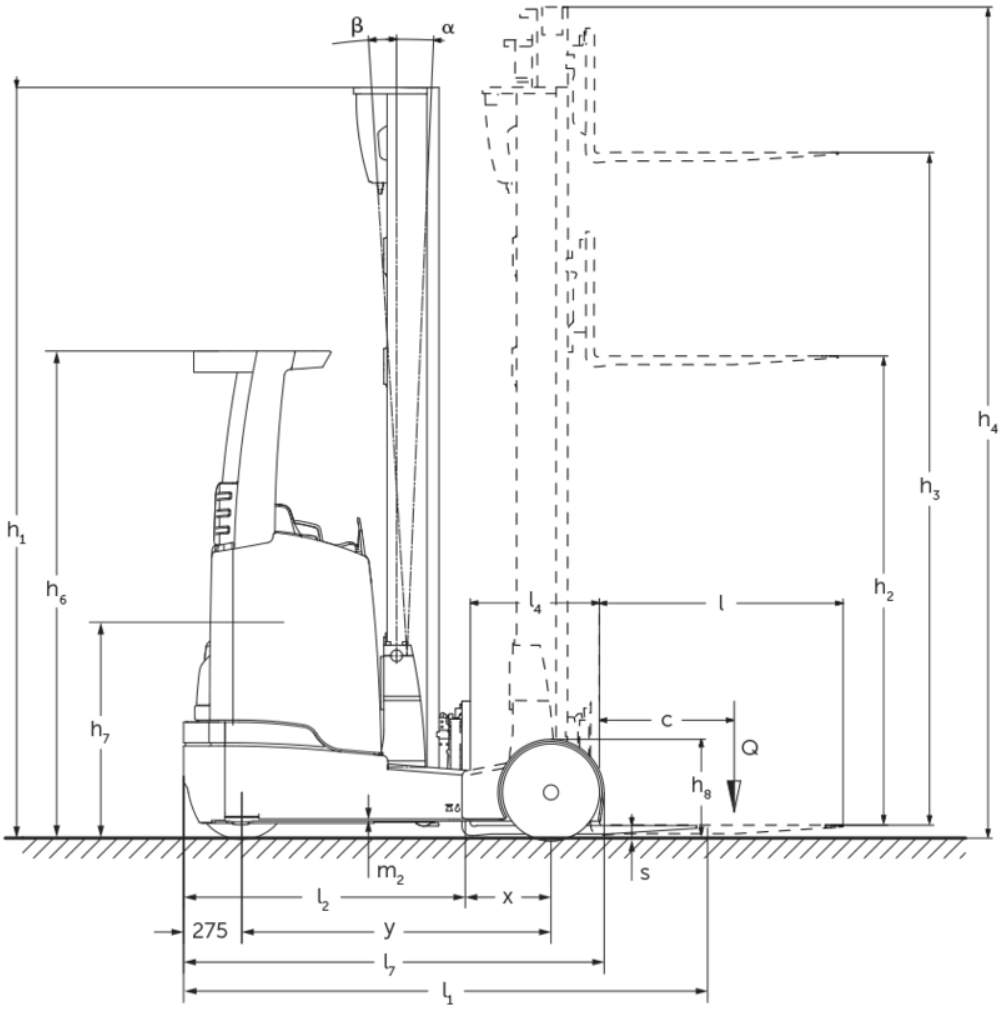
## ETV C16/C20

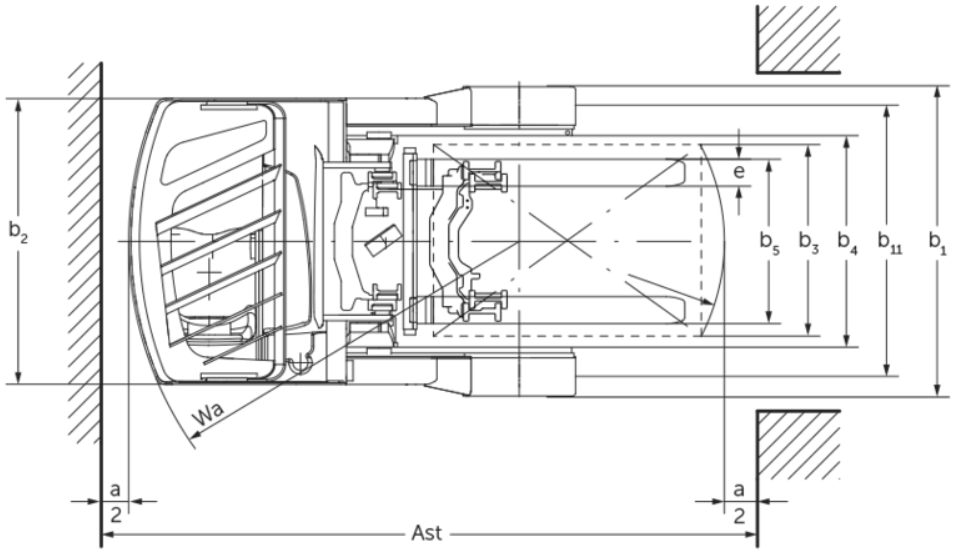
Lift height: 4250-7400 mm / Load capacity: 1600-2000 kg

LI-ION technology

JUNGHEINRICH

# ETV C16/C20


β
α
h1
h6
h7
h4
h3
h2
l4
l
c
Q
h8
m2
l2
x
s
275
y
l7
l1


b2
e
b5
b3
b4
b11
b1
Wa
a
2
Ast

# ETV C16/C20

| ETV C16 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/ backward tilt of mast |
|---|---|---|---|---|---|
| Mast tilt / Triplex mast DZ / hot-rolled | 4550 mm | 2050 mm | 1396 mm | 5204 mm | 2 / 4 ° |
| | 5000 mm | 2200 mm | 1546 mm | 5654 mm | 2 / 4 ° |
| | 5240 mm | 2280 mm | 1626 mm | 5894 mm | 2 / 4 ° |
| | 5300 mm | 2300 mm | 1646 mm | 5954 mm | 2 / 4 ° |
| | 5450 mm | 2350 mm | 1696 mm | 6104 mm | 2 / 4 ° |
| | 5600 mm | 2400 mm | 1746 mm | 6254 mm | 2 / 4 ° |
| | 5720 mm | 2440 mm | 1786 mm | 6374 mm | 2 / 4 ° |
| | 5900 mm | 2500 mm | 1846 mm | 6554 mm | 2 / 4 ° |
| | 6200 mm | 2600 mm | 1946 mm | 6854 mm | 2 / 4 ° |
| | 6500 mm | 2700 mm | 2046 mm | 7154 mm | 2 / 4 ° |
| | 6800 mm | 2800 mm | 2146 mm | 7454 mm | 2 / 4 ° |
| | 7100 mm | 2900 mm | 2246 mm | 7754 mm | 2 / 4 ° |
| **ETV C20** | **Lift (h3)** | **Retracted mast height (h1)** | **Free lift (h2)** | **Extended mast height (h4)** | **Forward/ backward tilt of mast** |
| Mast tilt / Triplex mast DZ-V / cold-formed | 4250 mm | 2050 mm | 1320 mm | 4980 mm | 2 / 4 ° |
| | 4700 mm | 2200 mm | 1470 mm | 5430 mm | 2 / 4 ° |
| | 5000 mm | 2300 mm | 1570 mm | 5730 mm | 2 / 4 ° |
| | 5300 mm | 2400 mm | 1670 mm | 6030 mm | 2 / 4 ° |
| | 5600 mm | 2500 mm | 1770 mm | 6330 mm | 2 / 4 ° |
| | 5900 mm | 2600 mm | 1870 mm | 6630 mm | 2 / 4 ° |
| | 6200 mm | 2700 mm | 1970 mm | 6930 mm | 2 / 4 ° |
| | 6500 mm | 2800 mm | 2070 mm | 7230 mm | 2 / 4 ° |
| | 6800 mm | 2900 mm | 2170 mm | 7530 mm | 2 / 4 ° |
| | 6950 mm | 2950 mm | 2220 mm | 7680 mm | 2 / 4 ° |
| | 7400 mm | 3100 mm | 2370 mm | 8130 mm | 2 / 4 ° |

# VDI table

| | | | | | | |
|---|---|---|---|---|---|---|
| Characteristic | 1.1 | Manufacturer (abbreviated description) | | | Jungheinrich | |
| | 1.2 | Manufacturer's type designation | | | ETV C16 | ETV C20 |
| | 1.3 | Drive | | | electric | |
| | 1.4 | Operation | | | Sideways-seated | |
| | 1.5 | Load capacity/load | Q | kg | 1600 | 2000 |
| | 1.6 | Load centre distance | c | mm | 600 | |
| | 1.8 | Load distance, centre of drive axle to fork | x | mm | 400 | 421 |
| | 1.8.1 | Load distance, centre of drive axle to fork, mast extended | | mm | 290 | |
| | 1.9 | Wheelbase | y | mm | 1460 | 1520 |
| Weights | 2.1.1 | Service weight (incl. battery) | | kg | 3640 | 4010 |
| | 2.3 | Axle load unladen front/rear | | kg | 2230 / 1410 | 2410 / 1600 |
| | 2.4 | Axle load fork forward laden front/rear | | kg | 670 / 4570 | 510 / 5500 |
| | 2.5 | Axle load fork back laden front/rear | | kg | 1965 / 3275 | 2146 / 3846 |
| Wheels/suspension system | 3.1 | Tyres | | | Super-elastic (SE) | |
| | 3.2 | Tyre size, front | | | 200 / 50-10 | |
| | 3.3 | Tyre size, rear | | | 180 / 60-10 | |
| | 3.5 | Wheels, number front/back (x=driven) | | | 1x / 2 | |
| | 3.7 | Tread width, rear | b11 | mm | 1210 | 1240 |
| Basic dimensions | 4.1 | Forward/backward tilt of mast | a/ß | ° | 2 / 4 | |
| | 4.2 | Retracted mast height (h1) | h1 | mm | 2300 | 2400 |
| | 4.3 | Free lift (h2) | h2 | mm | 1646 | 1670 |
| | 4.4 | Lift (h3) | h3 | mm | 5300 | |
| | 4.5 | Extended mast height (h4) | h4 | mm | 5954 | 6030 |
| | 4.7 | Height of overhead guard (cab) | h6 | mm | 2290 | |
| | 4.8 | Seat height/stand height | h7 | mm | 1166 | |
| | 4.10 | Height of support arms | h8 | mm | 464 | |
| | 4.19 | total length | l1 | mm | 2484 | 2524 |
| | 4.20 | Length including fork shank | l2 | mm | 1320 | 1360 |
| | 4.21.1 | total width | b1 | mm | 1382 | 1409 |
| | 4.21.2 | total width | b2 | mm | 1270 | |
| | 4.22 | Fork dimensions | s/e/l | mm | 40 x 120 x 1150 | 50 x 140 x 1150 |
| | 4.23 | Fork carriage connection class | | | 2B | |
| | 4.24 | Fork carriage width | b3 | mm | 830 | |
| | 4.25 | Width across forks | b5 | mm | 335 | 356 |
| | 4.25.1 | Width across forks (min./max.) | b5 | mm | 335 / 705 | 356 / 750 |
| | 4.26 | Width between support arms/loading areas | b4 | mm | 940 | |
| | 4.28 | Reach distance | | mm | 690 | 711 |
| | 4.32 | Ground clearance centre of wheelbase | m2 | mm | 80 | |
| | 4.34.1 | Aisle width (pallet 1000×1200 sideways) | Ast | mm | 2784 | 2829 |
| | 4.34.2 | Aisle width (pallet 800x1200 length) | Ast | mm | 2829 | 2871 |
| | 4.35 | Turning radius | Wa | mm | 1735 | 1795 |
| | 4.37 | Length over the support arms | L7 | mm | 1986 | 2046 |

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|---|---|---|---|---|---|---|
| Performance data | 5.1 | Travel speed laden/unladen | km/h | 11.8 / 12.2 | | |
| | 5.2 | Lift speed laden/unladen | m/s | 0.4 / 0.7 | | 0.32 / 0.6 |
| | 5.3 | Lowering speed laden/unladen | m/s | 0.5 / 0.5 | | |
| | 5.4 | Reach speed laden/unladen | m/s | 0.2 / 0.2 | | 0.15 / 0.15 |
| | 5.7 | Gradeability laden/unladen | % | 7 / 10 | | 6 / 10 |
| | 5.8 | Max. gradeability laden/unladen | % | 10 / 15 | | |
| | 5.9 | Acceleration time laden/unladen | s | 5.1 / 4.8 | | 5.7 / 5 |
| | 5.10 | Service brake | | electric | | |
| E-motor/Electronics | 6.1 | Drive motor, performance S2 60 min | kW | 7.5 | | |
| | 6.2 | Lift motor, performance with S3 | kW | 13.3 | | |
| | 6.3 | Battery according to DIN 43531/35/36 | | DIN 43531 C | | |
| | 6.4 | Battery voltage/nominal capacity | V / Ah | 48 / 560 | | |
| | 6.5 | Battery weight | kg | 937 | | |
| | 6.6.1 | Energy consumption according to EN cycle | kWh/h | 3.59 | | 4.28 |
| | 6.6.2 | CO2 equivalent according to EN ISO 23308 | kg/h | 1.94 | | 2.31 |
| | 6.7 | Throughput | t/h | 60.19 | | 65.87 |
| | 6.8 | Turnover efficiency according to VDI 2198 | t/kWh | 17.3 | | 17.1 |
| | 6.8.1 | Energy consumption with max. throughput | kWh/h | 3.47 | | 3.85 |
| Other | 8.1 | Type of drive control | | 3-phase AC | | |
| | 10.1 | Operating pressure for attachment | bar | 150 | | |
| | 10.2 | Oil flow for attachments | l/min | 20 | | |
| | 10.7 | Sound pressure level according to EN12053 | dB (A) | 70 | | |

- This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values.

- VDI no. 1.8: the battery size influences the load distance x
- VDI no. 2.1.1: battery size and mast version affect service weight and axle loads
- VDI no. 2.3: battery size and mast version affect service weight and axle loads
- VDI no. 2.4: battery size and mast version affect service weight and axle loads
- VDI no. 2.5: battery size and mast version affect service weight and axle loads
- VDI no. 4.19: the battery size and the fork length influence the overall length l1
- VDI no. 4.20: the battery size influences the length including fork shank l2
- VDI no. 4.28: the battery size influences the reach distance l4
- VDI no. 4.34.1: the battery size influences the aisle widths
- VDI no. 4.34.2: the battery size influences the aisle widths

The German production facilities in Norderstedt, Moosburg and Landsberg are certified as well as our Genuine Parts Center in Kaltenkirchen.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.

CE

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