

Technical sheet :

ER 20 HD



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | | Metric |
|---------------------------|---|-----------|--------------------------|
| 1.1 | Manufacturer | | MANITOU |
| 1.2 | Model Name | | ER 20 HD |
| 1.3 | Power source | | Electrical |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 2000 kg |
| 1.6 | Load center of gravity | c | 600 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 416 mm |
| 1.9 | Wheelbase | y | 1530 mm |
| Weight | | | |
| 2.1 | Service weight | | 4150 kg |
| Wheels | | | |
| 3.1 | Tires type | | Vulkollan |
| 3.5.2 | Number of drive wheels - Size of drive wheels | | 0 x 355 x 155 |
| 3.3 | Number of load wheels - Size of load wheels | | 2 x 285*105 |
| 3.5 | Number of front wheels / rear wheels | | 1 / 2 |
| 3.6 | Front wheel gauge | b10 | 0 mm |
| 3.7 | Rear wheel gauge | b11 | 1128 mm |
| Dimensions | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2205 mm |
| 4.8 | Seat height/stand height | h7 | 1077 mm |
| 4.19 | Overall length | l1 | 2485 mm |
| 4.20 | Length to face of forks | l2 | 1335 mm |
| 4.21 | Overall width | b1 | 1270 mm |
| 4.22 | Forks section / width / length | s / e / l | 40 mm x 100 mm / 1150 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2A |
| 4.26 | Distance between wheel arms/loading surfaces | b4 | 903 mm |
| 4.25.1 | Width over forks min. / max. | b5 | 316 mm / 697 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 70 mm |
| 4.33 | Aisle width for 1000 x 1200 pallet lengthways | | 2788 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 2831 mm |
| 4.35 | Turning radius | Wa | 1750 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 14.30 km/h / 14.50 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.37 m/s / 0.63 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.55 m/s / 0.43 m/s |
| 5.4.1 | Reach speed (with load / without load) | | 0.20 m/s / 0.20 m/s |
| 5.7 | Gradeability (laden / unladen) | | 6.30 % / 9.40 % |
| 5.10 | Service brake | | Electric |
| Engine | | | |
| 6.1 | Drive motor rating S2 60 min | | 7.20 kW |
| 6.2 | Lift motor rating at S3 15% | | 15 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN 43531 C |
| 6.4 | Battery voltage / capacity | | 48 V / 620 Ah |
| 6.5 | Battery weight (+/- 5%) | | 920 kg |
| Miscellaneous | | | |
| 8.1 | Type of drive control | | Electronic |
| 8.3 | Oil flow rate for attachments | | 25 l/min |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 60.80 dB |

ER 20 HD - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | | FLT 64 | FLT 71 | FLT 76 | FLT 81 | FLT 85 | FLT 90 | FLT 96 | FLT 102 | FLT 114 | FLT 115 |
|--|----|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| α - Mast/fork carriage tilt, forward | ° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| β - Mast/fork carriage tilt, backward | ° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| h1 - Mast lowered height | mm | 2957 | 3190 | 3357 | 3523 | 3673 | 3823 | 4040 | 4240 | 4440 | 4673 |
| h2 - Mast free lift | mm | 2400 | 2650 | 2800 | 2980 | 3100 | 3283 | 3500 | 3700 | 3900 | 4100 |
| h3 - Mast lifting height | mm | 6350 | 7050 | 7550 | 8050 | 8500 | 8950 | 9600 | 10200 | 10800 | 11500 |
| h4 - Mast extended height | mm | 6930 | 7630 | 8130 | 8630 | 9080 | 9530 | 10180 | 10780 | 11380 | 12080 |
| Residual capacity at max height | kg | | | | | | | | | | 600 |
| Residual capacity with integrated side shift at max height | kg | 1600 | 1600 | 1400 | 1300 | 1150 | 1000 | 800 | | | |

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