

Technical sheet :

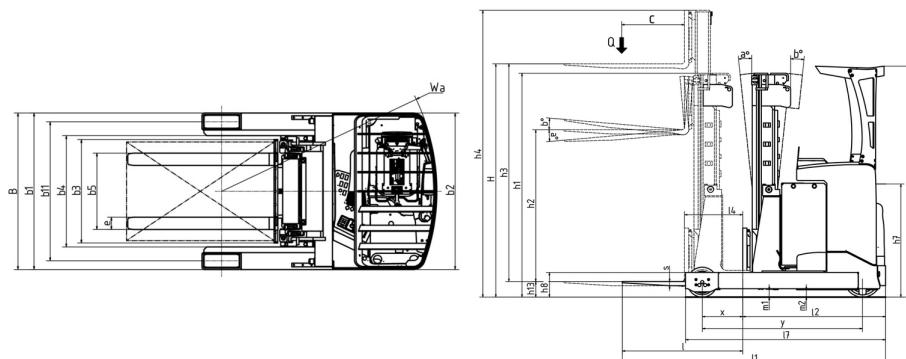
ER 16



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Metric | |
|---------------------------|---------------------------------------------------------|--------------------------|--|
| 1.1 | Manufacturer | MANITOU | |
| 1.2 | Model Name | ER 16 | |
| 1.3 | Power source | Electrical - Lead | |
| 1.4 | Operator type | Seated | |
| 1.5 | Max. capacity | 1600 kg | |
| 1.6 | Load center of gravity | 600 mm | |
| 1.8 | Load distance, centre of drive axle to fork | 439 mm | |
| 1.9 | Wheelbase | 1448 mm | |
| Weight | | Weight | |
| 2.1 | Service weight | 3190 kg | |
| Wheels | | Wheels | |
| 3.1 | Tires type | Polyurethane cushion | |
| 3.5.2 | Number of drive wheels - Size of drive wheels | 1 x 355 x 155 | |
| 3.3 | Number of load wheels - Size of load wheels | 2 x 282 x 105 | |
| 3.5 | Number of front wheels / rear wheels | 1 / 2 | |
| 3.6 | Front wheel gauge | 0 mm | |
| 3.7 | Rear wheel gauge | 1130 mm | |
| Dimensions | | Dimensions | |
| 4.8 | Seat height/stand height | 1077 mm | |
| 4.19 | Overall length | 2379 mm | |
| 4.20 | Length to face of forks | 1229 mm | |
| 4.21 | Overall width | 1270 mm | |
| 4.22 | Forks section / width / length | 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 | 912 mm | |
| 4.25.1 | Width over forks min. / max. | 316 mm / 697 mm | |
| 4.32 | Ground clearance at centre of wheelbase | 70 mm | |
| 4.33 | Aisle width for 1000 x 1200 pallet lengthways | 2689 mm | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | 2728 mm | |
| 4.35 | Turning radius | 1668 mm | |
| 4.7 | Height of overhead guard (cabin) | 2205 mm | |
| Performances | | Performances | |
| 5.1 | Travel speed (laden / unladen) | 14.30 km/h / 14.50 km/h | |
| 5.2 | Lifting speed (laden / unladen) | 0.49 m/s / 0.80 m/s | |
| 5.3 | Lowering speed (laden / unladen) | 0.49 m/s / 0.48 m/s | |
| 5.4.1 | Reach speed (with load / without load) | 0.20 m/s / 0.20 m/s | |
| 5.7 | Gradeability (laden / unladen) | 8.50 % / 11.10 % | |
| 5.10 | Service brake | Electric | |
| Engine | | 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 / 465 Ah | |
| 6.5 | Battery weight (+/- 5%) | 735 kg | |
| Miscellaneous | | 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 16 - Dimensional drawing



Characteristics of masts and residual capacities

| Free Lift Triplex (FLT) | FLT 48 | FLT 54 | FLT 63 | FLT 68 | FLT 73 | FLT 80 | FLT 85 | FLT 90 |
|---------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward ° | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| β - Mast/fork carriage tilt, backward ° | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| h1 - Mast lowered height mm | 2140 | 2340 | 2640 | 2790 | 2957 | 3190 | 3673 | 3823 |
| h2 - Mast free lift mm | 1600 | 1800 | 1900 | 2100 | 2400 | 2650 | 3100 | 3200 |
| h3 - Mast lifting height mm | 4800 | 5400 | 6300 | 6750 | 7250 | 7950 | 8450 | 8950 |
| h4 - Mast extended height mm | 5380 | 5980 | 6880 | 7330 | 7830 | 8530 | 9080 | 9530 |
| Residual capacity with integrated side shift at max height kg | 1600 | 1600 | 1400 | 1100 | | | | |



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