Technical sheet:

## ER 16

|  | Technical characteristics |  | Metic |
| :---: | :---: | :---: | :---: |
| 1.1 | Manufacturer |  | MANITOU |
| 1.2 | Model Name |  | ER 16 |
| 1.3 | Power source |  | Electrical |
| 1.4 | Operator type |  | Seated |
| 1.5 | Max. capacity | Q | 1600 kg |
| 1.6 | Load center of gravity | c | 600 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 439 mm |
| 1.9 | Wheelbase | y | 1448 mm |
|  | Weight |  |  |
| 2.1 | Service weight |  | 3190 kg |
|  | Wheels |  |  |
| 3.1 | Tires type |  | Vulkollan |
| 3.5.2 | Number of drive wheels - Size of drive wheels |  | $1 \times 355 \times 155$ |
| 3.3 | Number of load wheels - Size of load wheels |  | $2 \times 282 * 105$ |
| 3.5 | Number of front wheels / rear wheels |  | $1 / 2$ |
| 3.6 | Front wheel gauge | b10 | 0 mm |
| 3.7 | Rear wheel gauge | b11 | 1130 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 | 11 | 2379 mm |
| 4.20 | Length to face of forks | 12 | 1229 mm |
| 4.21 | Overall width | b1 | 1270 mm |
| 4.22 | Forks section / width / length | s/e/l | $40 \mathrm{~mm} \times 100 \mathrm{~mm} / 1150 \mathrm{~mm}$ |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B |  | 2 A |
| 4.26 | Distance between wheel ams/loading surfaces | b4 | 912 mm |
| 4.25 .1 | Width over forks min. / max. | b5 | $316 \mathrm{~mm} / 697 \mathrm{~mm}$ |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 70 mm |
| 4.33 | Aisle width for $1000 \times 1200$ pallet lengthways |  | 2689 mm |
| 4.34 | Aisle width for $800 \times 1200$ pallet lengthways | Ast | 2728 mm |
| 4.35 | Tuming radius | Wa | 1668 mm |
|  | Performances |  |  |
| 5.1 | Travel speed (laden / unladen) |  | $14.30 \mathrm{~km} / \mathrm{h} / 14.50 \mathrm{~km} / \mathrm{h}$ |
| 5.2 | Lifting speed (laden / unladen) |  | $0.49 \mathrm{~m} / \mathrm{s} / 0.80 \mathrm{~m} / \mathrm{s}$ |
| 5.3 | Lowering speed (laden / unladen) |  | $0.49 \mathrm{~m} / \mathrm{s} / 0.48 \mathrm{~m} / \mathrm{s}$ |
| 5.4.1 | Reach speed (with load / without load) |  | $0.20 \mathrm{~m} / \mathrm{s} / 0.20 \mathrm{~m} / \mathrm{s}$ |
| 5.7 | Gradeability (laden / unladen) |  | 8.50 / / 11.10 \% |
| 5.10 | Service brake |  | Electric |
|  | Engine |  |  |
| 6.1 | Drive motor rating S 260 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 |  | $48 \mathrm{~V} / 465$ Ah |
| 6.5 | Battery weight (+/-5\%) |  | 735 kg |
|  | Miscellaneous |  |  |
| 8.1 | Type of drive control |  | Electronic |
| 8.3 | Oil flow rate for attachments |  | $251 / \mathrm{min}$ |
| 8.4 | Sound level at the driver's ear according to DIN 12053 |  | 60.80 dB |

ER 16 - Dimensional drawing


## Characteristics of masts and residual capacities

| Free Lift Tiplex (FLT) |  | FLT 48 | FLT 54 | FLT 63 | FLT 68 | FLT 73 | FLT 80 | FLT 85 | FLT 90 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mast/fork carriage tilt, forward | - | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| 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 heigth | kg | 1600 | 1600 | 1400 | 1100 |  |  |  |  |

# E0)MANTUU HANDLING YOUR WORLD 

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