

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               |
| 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 x 355 x 155            |
| 3.3    | Number of load wheels - Size of load wheels             |           | 2 x 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  | l1        | 2379 mm                  |
| 4.20   | Length to face of forks                                 | l2        | 1229 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        | 912 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           |           | 2689 mm                  |
| 4.34   | Aisle width for 800 x 1200 pallet lengthways            | Ast       | 2728 mm                  |
| 4.35   | Turning radius  | Wa        | 1668 mm                  |
|        | 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  |           |                          |
| 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   |           |                          |
| 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 |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 height | kg | 1600   | 1600   | 1400   | 1100   |        |        |        |        |

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