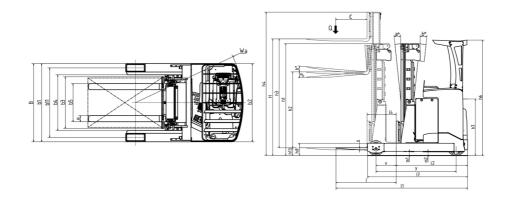
Technical sheet:

## **ER 12**



|        |   | ER 12 Created on 6 May 2024 at 8.01.22 am of C |                          |  |  |  |  |  |
|--------|---|--|--------------------------|--|--|--|--|--|
|        | Technical characteristics                               |  | Metric                   |  |  |  |  |  |
| 1.1    | Manufacturer  |  | Manitou                  |  |  |  |  |  |
| 1.2    | Model Name  |  | ER 12                    |  |  |  |  |  |
| 1.3    | Power source  |  | Electrical               |  |  |  |  |  |
| 1.4    | Operator type   |  | Seated                   |  |  |  |  |  |
| 1.5    | Max. capacity   | Q  | 1200 kg                  |  |  |  |  |  |
| 1.6    | Load center of gravity                                  | c  | 600 mm                   |  |  |  |  |  |
| 1.8    | Load distance, centre of drive axle to fork             | Х  | 307 mm                   |  |  |  |  |  |
| 1.9    | Wheelbase   | у  | 1378 mm                  |  |  |  |  |  |
|        | Weight  |  |                          |  |  |  |  |  |
| 2.1    | Service weight  |  | 2580 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 220*85               |  |  |  |  |  |
| 3.5    | Number of front wheels / rear wheels                    |  | 1/2                      |  |  |  |  |  |
| 3.6    | Front wheel gauge                                       | b10  | 0 mm                     |  |  |  |  |  |
| 3.7    | Rear wheel gauge  | b11  | 995 mm                   |  |  |  |  |  |
| 3.7    | Dimensions  | D11  | 993 111111               |  |  |  |  |  |
| 4.7    | Height of overhead guard (cabin)                        | h6   | 2205 mm                  |  |  |  |  |  |
| 4.8    | Seat height/stand height                                | h7   | 1077 mm                  |  |  |  |  |  |
| 4.0    | Overall length  | 117<br>11                                      | 2413 mm                  |  |  |  |  |  |
| 4.19   | •   | 12   | 1263 mm                  |  |  |  |  |  |
| 4.20   | Length to face of forks  Overall width                  | b1   | 1203 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   | 900 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           |  | 2701 mm                  |  |  |  |  |  |
| 4.34   | Aisle width for 800 x 1200 pallet lengthways            | Ast  | 2768 mm                  |  |  |  |  |  |
| 4.35   | Tuming radius   | Wa   | 1598 mm                  |  |  |  |  |  |
|        | Performances  |  |                          |  |  |  |  |  |
| 5.1    | Travel speed (laden / unladen)                          |  | 12.30 km/h / 12.50 km/h  |  |  |  |  |  |
| 5.2    | Lifting speed (laden / unladen)                         |  | 0.46 m/s / 0.54 m/s      |  |  |  |  |  |
| 5.3    | Lowering speed (laden / unladen)                        |  | 0.58 m/s / 0.60 m/s      |  |  |  |  |  |
| 5.4.1  | Reach speed (with load / without load)                  |  | 0.20 m/s / 0.20 m/s      |  |  |  |  |  |
| 5.7    | Gradeability (laden / unladen)                          |  | 7.50 % / 11.10 %         |  |  |  |  |  |
| 5.10   | Service brake   |  | Electric                 |  |  |  |  |  |
|        | Engine  |  |                          |  |  |  |  |  |
| 6.1    | Drive motor rating S2 60 min                            |  | 5.90 kW                  |  |  |  |  |  |
| 6.2    | Lift motor rating at S3 15%                             |  | 11 kW                    |  |  |  |  |  |
| 6.3    | Battery according to DIN 43531/35/36 A, B, C            |  | DIN43531 B               |  |  |  |  |  |
| 6.4    | Battery voltage / capacity                              |  | 48 V / 420 Ah            |  |  |  |  |  |
| 6.5    | Battery weight (+/- 5%)                                 |  | 730 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 |  | 57.40 dB                 |  |  |  |  |  |
|        |   |  |                          |  |  |  |  |  |

## ER 12 - Dimensional drawing



## Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 32 | FVD 36 | FVD 38 | FVD 42 | FVD 45 | FVD 48 |
|--|----|--------|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | ۰  | 4      | 4      | 4      | 4      | 4      | 4      |
| Mast/fork carriage tilt, backward                          | ۰  | 1      | 1      | 1      | 1      | 1      | 1      |
| h1 - Mast lowered height                                   | mm | 2170   | 2370   | 2470   | 2670   | 2820   | 2970   |
| h2 - Mast free lift  | mm | 125    | 125    | 125    | 125    | 125    | 125    |
| h3 - Mast lifting height                                   | mm | 3200   | 3600   | 3800   | 4200   | 4500   | 4800   |
| h4 - Mast extended height                                  | mm | 3780   | 4180   | 4380   | 4780   | 5080   | 5380   |
| Residual capacity with integrated side shift at max heigth | kg | 1200   | 1200   | 1200   | 1200   | 1200   | 1200   |

| Free Lift Triplex (FLT)                                    |    | FLT 48 | FLT 54 | FLT 57 | FLT 63 | FLT 68 |
|--|----|--------|--------|--------|--------|--------|
| Mast/fork carriage tilt, forward                           | ٠  | 3      | 3      | 3      | 3      | 3      |
| Mast/fork carriage tilt, backward                          | ۰  | 1      | 1      | 1      | 1      | 1      |
| h1 - Mast lowered height                                   | mm | 2140   | 2340   | 2440   | 2640   | 2790   |
| h2 - Mast free lift  | mm | 1600   | 1800   | 1900   | 2100   | 2250   |
| h3 - Mast lifting height                                   | mm | 4800   | 5400   | 5700   | 6300   | 6800   |
| h4 - Mast extended height                                  | mm | 5380   | 5980   | 6280   | 6880   | 7330   |
| Residual capacity with integrated side shift at max heigth | kg | 1200   | 1200   | 1200   | 1000   | 700    |





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