

Technical sheet :

# ME 320 LIFT

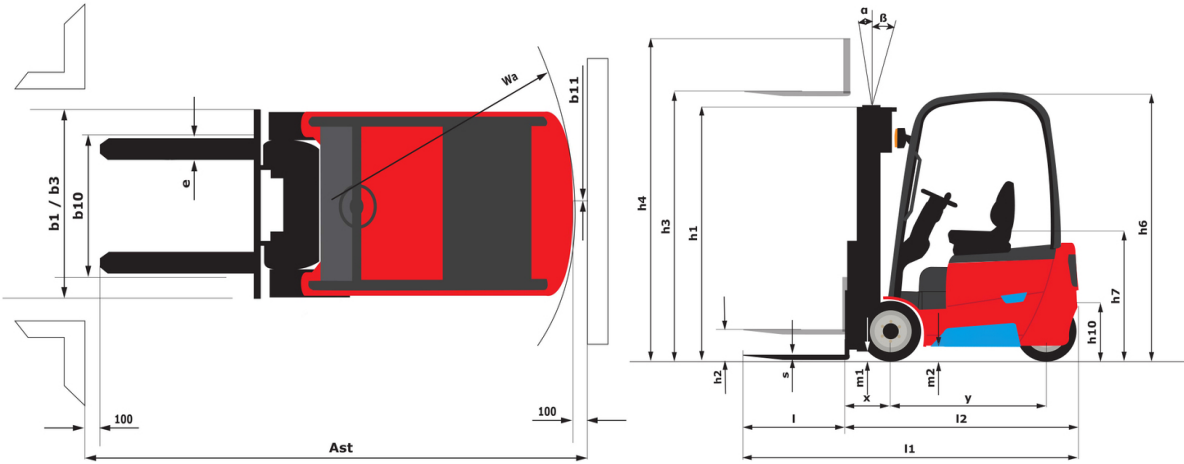
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|        | Technical characteristics                               |       | Metric               |
|--------|---|-------|----------------------|
| 1.1    | Manufacturer  |       | Manitou              |
| 1.2    | Model Name  |       | ME 320 LIFT          |
| 1.3    | Power source  |       | Electrical - Lithium |
| 1.4    | Operator type   |       | Seated               |
| 1.5    | Max. capacity   | Q     | 2000 kg              |
| 1.6    | Load center of gravity                                  | c     | 500 mm               |
| 1.8    | Load distance, centre of drive axle to fork             | x     | 364.50 mm            |
| 1.9    | Wheelbase   | y     | 1407 mm              |
|        | Standard mast reference of the machine                  |       | FVD 30               |
|        | Weight  |       |                      |
| 2.1    | Service weight  |       | 3200 kg              |
| 2.2    | Weight on front axle (laden) / rear axle (laden)        |       | 4580 kg / 620 kg     |
| 2.3    | Weight on front axle (Unladen) / rear axle (Unladen)    |       | 1365 kg / 1835 kg    |
|        | Wheels  |       |                      |
| 3.1    | Tires type  |       | Solid tires          |
| 3.2    | Dimensions of front wheels                              |       | 200/50-10            |
| 3.3    | Dimensions of rear wheels                               |       | 15x4,5-8             |
| 3.5    | Number of front wheels / rear wheels                    |       | 2 / 1                |
| 3.5.2  | Number of drive wheels                                  |       | 2                    |
| 3.6    | Front wheel gauge                                       | b10   | 932 mm               |
| 3.7    | Rear wheel gauge  | b11   | 178 mm               |
|        | Dimensions  |       |                      |
| 4.7    | Height of overhead guard (cabin)                        | h6    | 2158 mm              |
| 4.8    | Seat height/stand height                                | h7    | 1120 mm              |
| 4.12   | Height of towing bar (coupling height)                  | h10   | 525 mm               |
| 4.19   | Overall length  | l1    | 2907 mm              |
| 4.20   | Length to face of forks                                 | l2    | 1987 mm              |
| 4.21   | Overall width   | b1    | 1153 mm              |
| 4.22.1 | Forks width / length                                    | e / l | 40 mm x 100 mm       |
| 4.23   | Fork carriage ISO 2328 (class/form) A/B                 |       | 2A                   |
| 4.24   | Fork carriage width                                     | b3    | 1000 mm              |
| 4.31   | Ground clearance below mast                             | m1    | 100 mm               |
| 4.32   | Ground clearance at centre of wheelbase                 | m2    | 110 mm               |
| 4.33   | Aisle Width for pallets 1000 x 1200 crossways           | Ast   | 3316 mm              |
| 4.34   | Aisle width for 800 x 1200 pallet lengthways            | Ast   | 3440 mm              |
| 4.35   | Turning radius  | Wa    | 1625 mm              |
|        | Performances  |       |                      |
| 5.1    | Travel speed (laden / unladen)                          |       | 15 km/h-15 km/h      |
| 5.2    | Lifting speed (laden / unladen)                         |       | 0.40 m/s-0.55 m/s    |
| 5.3    | Lowering speed (laden / unladen)                        |       | 0.47 m/s-0.42 m/s    |
| 5.5    | Drawbar pull (Laden / Unladen)                          |       | 3050 daN / 3700 daN  |
| 5.7    | Gradeability (laden / unladen)                          |       | 13 % / 15 %          |
| 5.10   | Service brake   |       | Hydraulic            |
|        | Engine  |       |                      |
| 6.1    | Drive motor rating S2 60 min                            |       | 2.50 kW              |
| 6.2    | Lift motor rating at S3 15%                             |       | 11 kW                |
| 6.3    | Battery according to DIN 43531/35/36 A, B, C            |       | Lithium              |
| 6.4    | Battery voltage / capacity                              |       | 76.80 V / 304 Ah     |
| 6.5    | Battery weight (+/- 5%)                                 |       | 300 kg               |
| 6.6    | Energy consumption according to VDI cycle (kWh/h)       |       | 4.60 kWh/h           |
|        | Miscellaneous   |       |                      |
| 8.2    | Working hydraulic pressure for attachments              |       | 210 bar              |
| 8.3    | Oil flow rate for attachments                           |       | 30 l/min             |
| 8.4    | Sound level at the driver's ear according to DIN 12 053 |       | 70 dB                |

ME 320 LIFT - Dimensional drawing



# Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD)                               |    | FVD 30 | FVD 33 | FVD 40 | FVD 45 |
|--|----|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 7      | 7      | 7      | 7      |
| β - Mast/fork carriage tilt, backward                      | °  | 6      | 6      | 6      | 6      |
| h1 - Mast lowered height                                   | mm | 1988   | 2138   | 2588   | 2838   |
| h2 - Mast free lift  | mm | 140    | 140    | 140    | 140    |
| h3 - Mast lifting height                                   | mm | 3000   | 3300   | 4000   | 4500   |
| h4 - Mast extended height                                  | mm | 3560   | 3860   | 4560   | 5060   |
| Residual capacity at max height                            | kg | 2000   | 2000   | 2000   | 1900   |
| Residual capacity with integrated side shift at max height | kg | 1950   | 1950   | 1950   | 1850   |

| Free Lift Triplex (FLT)                                    |    | FLT 40 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward                       | °  | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   | 3.50   |
| β - Mast/fork carriage tilt, backward                      | °  | 5      | 5      | 5      | 5      | 5      | 5      | 5      |
| h1 - Mast lowered height                                   | mm | 1888   | 2038   | 2138   | 2213   | 2388   | 2588   | 2788   |
| h2 - Mast free lift  | mm | 1292   | 1392   | 1492   | 1592   | 1792   | 1992   | 2192   |
| h3 - Mast lifting height                                   | mm | 4000   | 4500   | 4800   | 5000   | 5500   | 6000   | 6500   |
| h4 - Mast extended height                                  | mm | 4552   | 5052   | 5352   | 5552   | 6052   | 6552   | 7052   |
| Residual capacity at max height                            | kg | 2000   | 1800   | 1700   | 1600   | 1500   | 1300   | 1100   |
| Residual capacity with integrated side shift at max height | kg | 1950   | 1750   | 1650   | 1550   | 1450   | 1250   | 1050   |



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