

Technical sheet :

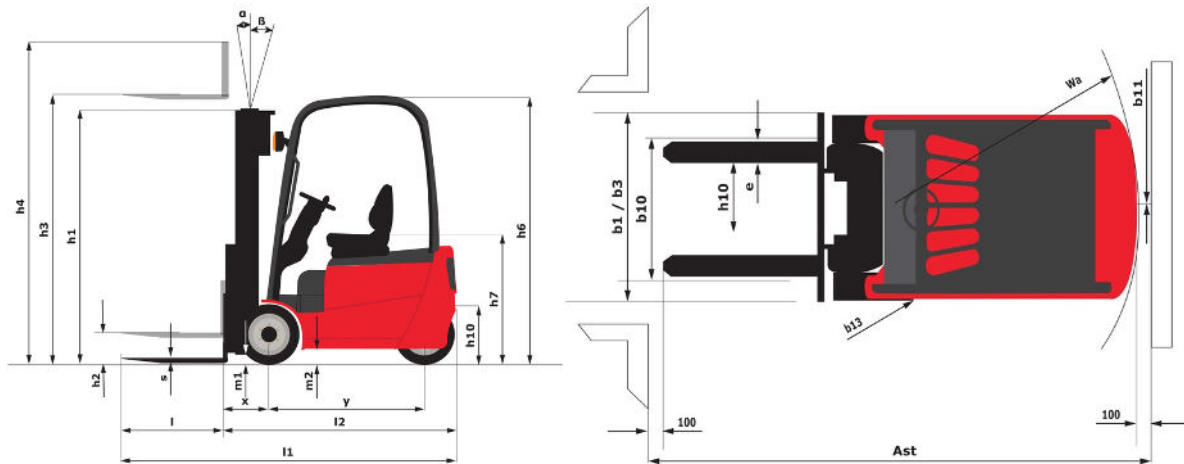
ME 320



 **MANITOU**
HANDLING YOUR WORLD

| | Technical characteristics | | Imperial |
|-------|---|------------------|---------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ME 320 |
| 1.3 | Power source | | Electric |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 4409 lb |
| 1.6 | Load centre of gravity | c | 20 in |
| 1.8 | Load distance, centre of drive axle to fork | x | 14 in |
| 1.9 | Wheelbase | y | 58 in |
| | Weight | | |
| 2.1 | Service weight | | 7650 lb |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 10472 lb / 1587 lb |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 3373 lb / 4277 lb |
| | Wheels | | |
| 3.1 | Tyres type | | PPS |
| 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 | 36 in |
| 3.7 | Rear wheel gauge | b11 | 7 in |
| | Dimensions | | |
| 4.1 | Tilt of Mast Forward (deg) / Backward (deg) | α / β | 5.5 / 6.5 |
| 4.12 | Height of towing bar (coupling height) | h10 | 20 in |
| 4.19 | Overall length | l1 | 121 in |
| 4.20 | Length to face of forks | l2 | 79 in |
| 4.21 | Overall width | b1 | 44 in |
| 4.22 | Forks section / width / length | s / e / l | 2 in x 5 in / 42 in |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | FEM 2A |
| 4.24 | Fork carriage width | b3 | 39 in |
| 4.31 | Ground clearance below mast | m1 | 4 in |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 360 ft 11 in |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 132 in |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 11384 ft 6 in |
| 4.35 | Turning radius | Wa | 65 in |
| 4.7 | Height of overhead guard (cabin) | h6 | 80 in |
| 4.8 | Seat height/stand height | h7 | 39 in |
| | Performances | | |
| 5.1 | Travel speed (laden / unladen) | | 9 mi/h / 9 mi/h |
| 5.2 | Lifting speed (laden / unladen) | | 1 ft/s / 1 ft/s |
| 5.3 | Lowering speed (laden / unladen) | | 2 ft/s / 1 ft/s |
| 5.5 | Drawbar pull (Laden / Unladen) | | 900 daN / 930 daN |
| 5.7 | Gradeability (laden / unladen) | | 13 % / 15 % |
| 5.10 | Service brake | | Oil bath |
| | Engine | | |
| 6.1 | Number of drive motor / Drive motor rating S2 60 min | | 2 / 9.50 kW |
| 6.2 | Lift motor rating at S3 15% | | 8.60 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN43531 A |
| 6.4 | Battery / Batteries capacity | | 48 V / 690 Ah |
| 6.6 | Energy consumption | | 4.70 kW/h |
| | Miscellaneous | | |
| 8.1 | Type of drive control | | Electronic |
| 8.2 | Working hydraulic pressure for attachments | | 2611 PSI |
| 8.3 | Oil flow rate for attachments | | 35 l/min |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 70 dB |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 70 dB |

ME 320 - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex | | FVD 27 | FVD 30 | FVD 33 | FVD 36 | FVD 40 | FVD 43 | FVD 45 |
|--|----|----------|----------|----------|----------|----------|----------|----------|
| h2 - Free lift | in | 6" | 6" | 6" | 6" | 6" | 6" | 6" |
| h1 - Height mast lowered * | in | 6' 1" | 6' 7" | 7' | 7' 6" | 8' 4" | 8' 11" | 9' 3" |
| h3 - Lifting Height | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" | 14' 1" | 14' 9" |
| h4 - Height mast extended * | in | 10' 9" | 11' 8" | 12' 8" | 13' 8" | 15' | 16' | 16' 7" |
| α / β - Mast inclination (front / rear) | ° | 5.50 / 6 | 5.50 / 6 | 5.50 / 6 | 5.50 / 6 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 |
| Residual capacity without attachment (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4299.01 | 4188.78 |
| Residual capacity with integrated side shift (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4299.01 | 4188.78 |
| Residual capacity with hooked-on side shift (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4078.55 | 3858.09 | 3747.86 |
| Height at max capacity | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" | 13' 1" | 13' 1" |
| Height at max capacity with integrated sideshift | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" | 13' 1" | 13' 1" |

| Free Lift Duplex | | FLD 27 | FLD 30 | FLD 33 | FLD 36 | FLD 40 |
|--|----|----------|----------|----------|----------|----------|
| h2 - Free lift | in | 4' 2" | 4' 8" | 5' 1" | 5' 7" | 6' 5" |
| h1 - Height mast lowered * | in | 6' 1" | 6' 7" | 7' | 7' 6" | 8' 4" |
| h3 - Lifting Height | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" |
| h4 - Height mast extended * | in | 10' 10" | 11' 10" | 12' 9" | 13' 9" | 15' 1" |
| α / β - Mast inclination (front / rear) | ° | 5.50 / 6 | 5.50 / 6 | 5.50 / 6 | 5.50 / 6 | 3.50 / 5 |
| Residual capacity without attachment (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4409.25 |
| Residual capacity with integrated side shift (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4409.25 |
| Residual capacity with hooked-on side shift (Industrial load chart) | lb | 4409.25 | 4409.25 | 4409.25 | 4409.25 | 4078.55 |
| Height at max capacity | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" |
| Height at max capacity with integrated sideshift | in | 8' 10" | 9' 10" | 10' 10" | 11' 10" | 13' 1" |

| Free Lift Triplex | | FLT 40 | FLT 43 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--|----|----------|----------|----------|----------|----------|----------|----------|----------|
| h2 - Free lift | in | 4' 4" | 4' 8" | 4' 11" | 5' 3" | 5' 5" | 6' | 6' 7" | 6' 7" |
| h1 - Height mast lowered * | in | 6' 3" | 6' 7" | 6' 10" | 7' 2" | 7' 4" | 7' 11" | 8' 7" | 9' 4" |
| h3 - Lifting Height | in | 13' 1" | 14' 1" | 14' 9" | 15' 9" | 16' 5" | 18' 1" | 19' 8" | 21' 4" |
| h4 - Height mast extended * | in | 15' 1" | 16' 1" | 16' 9" | 17' 8" | 18' 4" | 20' | 21' 9" | 23' 6" |
| α / β - Mast inclination (front / rear) | ° | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 | 3.50 / 5 |
| Residual capacity without attachment (Industrial load chart) | lb | 4299.01 | 4188.78 | 3968.32 | 3747.86 | 3527.40 | 3086.47 | 2866.01 | 2425.08 |
| Residual capacity with integrated side shift (Industrial load chart) | lb | 4299.01 | 4188.78 | 3968.32 | 3747.86 | 3527.40 | 3086.47 | 2866.01 | 2425.08 |
| Residual capacity with hooked-on side shift (Industrial load chart) | lb | 3968.32 | 3858.09 | 3637.63 | 3417.17 | 3196.70 | 2755.78 | 2535.32 | 2094.39 |
| Height at max capacity | in | 13' 1" | | | | | | | |
| Height at max capacity with integrated sideshift | in | 13' 1" | | | | | | | |



Siège Social
430 rue de l'Aubinière - 44150 Ancenis Cedex - France
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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