

Technical sheet :

ME 425 FOB



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | | Metric |
|---------------------------|---|-----------|--------------------------|
| 1.1 | Manufacturer | | Manitou |
| 1.2 | Model Name | | ME 425 FOB |
| 1.3 | Power source | | Electrical |
| 1.4 | Operator type | | Seated |
| 1.5 | Max. capacity | Q | 2500 kg |
| 1.6 | Load center of gravity | c | 500 mm |
| 1.8 | Load distance, centre of drive axle to fork | x | 425 mm |
| 1.9 | Wheelbase | y | 1750 mm |
| Weight | | | |
| 2.1 | Service weight | | 5100 kg |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | | 6620 kg / 980 kg |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | | 2500 kg / 2600 kg |
| Wheels | | | |
| 3.1 | Tires type | | Solid tires |
| 3.2 | Dimensions of front wheels | | 23 x 9-10 |
| 3.3 | Dimensions of rear wheels | | 18 x 7-8 |
| 3.5 | Number of front wheels / rear wheels | | 2 / 2 |
| 3.5.2 | Number of drive wheels | | 2 |
| 3.6 | Front wheel gauge | b10 | 1073 mm |
| 3.7 | Rear wheel gauge | b11 | 960 mm |
| Dimensions | | | |
| 4.7 | Height of overhead guard (cabin) | h6 | 2240 mm |
| 4.8 | Seat height/stand height | h7 | 1190 mm |
| 4.12 | Height of towing bar (coupling height) | h10 | 625 mm |
| 4.19 | Overall length | l1 | 3640 mm |
| 4.20 | Length to face of forks | l2 | 2490 mm |
| 4.21 | Overall width | b1 | 1275 mm |
| 4.22 | Forks section / width / length | s / e / l | 122 mm x 1150 mm x 40 mm |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | | 2A |
| 4.24 | Fork carriage width | b3 | 1100 mm |
| 4.31 | Ground clearance below mast | m1 | 105 mm |
| 4.32 | Ground clearance at centre of wheelbase | m2 | 115 mm |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | Ast | 4025 mm |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | Ast | 4225 mm |
| 4.35 | Turning radius | Wa | 2400 mm |
| 4.36 | Internal turning radius (over tyres) | b13 | 730 mm |
| Performances | | | |
| 5.1 | Travel speed (laden / unladen) | | 19 km/h-20 km/h |
| 5.2 | Lifting speed (laden / unladen) | | 0.46 m/s-0.62 m/s |
| 5.3 | Lowering speed (laden / unladen) | | 0.47 m/s-0.42 m/s |
| 5.5 | Drawbar pull (Laden / Unladen) | | 1740 daN / 1640 daN |
| 5.7 | Gradeability (laden / unladen) | | 16 % / 21 % |
| 5.10 | Service brake | | Oil bath |
| Engine | | | |
| 6.1 | Drive motor rating S2 60 min | | 18.50 kW |
| 6.2 | Lift motor rating at S3 15% | | 25.40 kW |
| 6.3 | Battery according to DIN 43531/35/36 A, B, C | | DIN43536 A |
| 6.4 | Battery voltage / capacity | | 80 V / 700 Ah |
| 6.6 | Energy consumption according to VDI cycle (kWh/h) | | 10.50 kWh/h |
| Miscellaneous | | | |
| 8.1 | Type of drive control | | Electronic |
| 8.2 | Working hydraulic pressure for attachments | | 210 bar |
| 8.3 | Oil flow rate for attachments | | 65 l/min |
| 8.4 | Measured/guaranteed mean noise level at the ear of the operator | | < 71 dB |
| 8.4 | Sound level at the driver's ear according to DIN 12 053 | | 71 dB |

ME 425 FOB - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 30 | FVD 33 | FVD 35 | FVD 37 | FVD 40 | FVD 43 | FVD 45 | FVD 48 | FVD 50 |
|--|----|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |
| β - Mast/fork carriage tilt, backward | ° | 8 | 8 | 8 | 8 | 8 | 5 | 5 | 5 | 5 |
| h1 - Mast lowered height | mm | 2085 | 2235 | 2335 | 2485 | 2685 | 2835 | 2935 | 3085 | 3185 |
| h2 - Mast free lift | mm | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 | 140 |
| h3 - Mast lifting height | mm | 3000 | 3300 | 3500 | 3700 | 4000 | 4300 | 4500 | 4800 | 5000 |
| h4 - Mast extended height | mm | 3643 | 3943 | 4143 | 4243 | 4643 | 4943 | 5143 | 5443 | 5643 |
| Residual capacity at max height | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with integrated side shift at max height | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with hooked-on side shift at max height | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Height at max capacity | mm | 3000 | 3300 | 3500 | 3700 | 4000 | 4300 | 4500 | 4800 | 5000 |
| Height at max capacity with integrated sideshift | mm | 3000 | 3300 | 3500 | 3700 | 4000 | 4300 | 4500 | 4800 | 5000 |

| Free Lift Duplex (FLD) | | FLD 30 | FLD 33 | FLD 37 | FLD 40 |
|--|----|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 5 | 5 | 5 | 5 |
| β - Mast/fork carriage tilt, backward | ° | 8 | 8 | 8 | 8 |
| h1 - Mast lowered height | mm | 2035 | 2185 | 2385 | 2585 |
| h2 - Mast free lift | mm | 1370 | 1520 | 1720 | 1920 |
| h3 - Mast lifting height | mm | 3000 | 3300 | 3700 | 4000 |
| h4 - Mast extended height | mm | 3665 | 3965 | 4365 | 4665 |
| Residual capacity at max height | kg | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with integrated side shift at max height | kg | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with hooked-on side shift at max height | kg | 2500 | 2500 | 2500 | 2500 |
| Height at max capacity | mm | 3000 | 3300 | 3700 | 4000 |
| Height at max capacity with integrated sideshift | mm | 3000 | 3300 | 3700 | 4000 |

| Free Lift Triplex (FLT) | | FLT 40 | FLT 43 | FLT 48 | FLT 50 | FLT 55 | FLT 60 |
|--|----|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ° | 5 | 5 | 5 | 5 | 5 | 5 |
| β - Mast/fork carriage tilt, backward | ° | 5 | 5 | 5 | 5 | 5 | 5 |
| h1 - Mast lowered height | mm | 2035 | 2135 | 2285 | 2385 | 2585 | 2835 |
| h2 - Mast free lift | mm | 1370 | 1470 | 1620 | 1720 | 1920 | 2170 |
| h3 - Mast lifting height | mm | 4000 | 4300 | 4800 | 5000 | 5500 | 6000 |
| h4 - Mast extended height | mm | 4665 | 4965 | 5465 | 5665 | 6165 | 6665 |
| Residual capacity at max height | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with integrated side shift at max height | kg | 2500 | 2500 | 2500 | 2500 | 2500 | 2500 |
| Residual capacity with hooked-on side shift at max height | kg | 2500 | 2500 | 2500 | 2500 | 2450 | 2400 |
| Height at max capacity | mm | 4000 | 4300 | 4800 | 5000 | 5500 | 6000 |
| Height at max capacity with integrated sideshift | mm | 4000 | 4300 | 4800 | 5000 | 5500 | 6000 |



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