Technical sheet :

ME 425 LIFT





| Technical characteristics | | Metric |
|--|-------|----------------------|
| Manufacturer | | Manitou |
| Aodel Name | | ME 425 LIFT |
| Power source | | Electrical - Lithium |
|)perator type | | Seated |
| /ax. capacity | Q | 2500 kg |
| oad center of gravity | С | 500 mm |
| oad distance, centre of drive axle to fork | x | 431 mm |
| Vheelbase | у | 1520 mm |
| Standard mast reference of the machine | | FVD 30 |
| Neight | | |
| Service weight | | 3875 kg |
| Veight on front axle (laden) / rear axle (laden) | | 5595 kg / 780 kg |
| Veight on front axle (Unladen) / rear axle (Unladen) | | 1580 kg / 2295 kg |
| Vheels | | |
| Tires type | | Solid tires |
| Dimensions of front wheels | | 23x9-10-18PR |
| Dimensions of rear wheels | | 18x7-8-14PR |
| Number of front wheels / rear wheels | | 2 / 2 |
| Number of drive wheels | | 2 |
| ront wheel gauge | b10 | 1046 mm |
| Rear wheel gauge | b11 | 960 mm |
| Dimensions | | |
| leight of overhead guard (cabin) | h6 | 2186 mm |
| Seat height/stand height | h7 | 1155 mm |
| leight of towing bar (coupling height) | h10 | 440 mm |
| Overall length | 1 | 3357 mm |
| ength to face of forks | 12 | 2287 mm |
| Overall width | b1 | 1271 mm |
| orks width / length | e / I | 40 mm x 122 mm |
| Fork carriage ISO 2328 (class/form) A/B | | 2A |
| ork carriage width | b3 | 1038 mm |
| Ground clearance below mast | m1 | 120 mm |
| Ground clearance at centre of wheelbase | m2 | 115 mm |
| Aisle Width for pallets 1000 x 1200 crossways | Ast | 3670 mm |
| Aisle width for 800 x 1200 pallet lengthways | Ast | 3866 mm |
| Turning radius | Wa | 2035 mm |
| Performances | | |
| ravel speed (laden / unladen) | | 19 km/h-20 km/h |
| ifting speed (laden / unladen) | | 0.50 m/s-0.60 m/s |
| owering speed (laden / unladen) | | 0.51 m/s-0.54 m/s |
| Drawbar pull (Laden / Unladen) | | 8000 daN / 9000 daN |
| Gradeability (laden / unladen) | | 13 % / 24 % |

| LIFT | Created on August 15, 2025 at 12.38 PM OTC |
|------|--|
| | Metric |
| | Manitou |
| | ME 425 LIFT |
| | Electrical - Lithium |
| | Seated |
| Q | 2500 kg |
| с | 500 mm |
| х | 431 mm |
| у | 1520 mm |
| , | FVD 30 |
| | |
| | 3875 kg |
| | 5595 kg / 780 kg |
| | 1580 kg / 2295 kg |
| | |
| | Solid tires |
| | 23x9-10-18PR |
| | 18x7-8-14PR |
| | 2/2 |
| | 2 |
| 10 | 1046 mm |
| 11 | 960 mm |
| | |
| 16 | 2186 mm |
| 17 | 1155 mm |
| 10 | 440 mm |
| 1 | 3357 mm |
| 12 | 2287 mm |
| 51 | 1271 mm |
| /1 | 40 mm x 122 mm |
| | 2A |
| 53 | 1038 mm |
| n1 | 120 mm |
| n2 | 115 mm |
| st | 3670 mm |
| st | 3866 mm |
| Va | 2035 mm |
| | |
| | 19 km/h-20 km/h |
| | 0.50 m/s-0.60 m/s |
| | 0.51 m/s-0.54 m/s |
| | 8000 daN / 9000 daN |
| | 13 % / 24 % |
| | Hydraulic |
| | |
| | 20 kW |
| | 26 kW |
| | Lithium |
| | 76.80 V / 304 Ah |
| | 225 kg |
| | 6.50 kWh/h |
| | |
| | 160 bar |
| | 25 l/min |
| | 70 dB |
| | |

ME 425 LIFT - Dimensional drawing

Oil flow rate for attachments

Service brake Engine

6.1 6.2

6.3 6.4

6.5

6.6

8.2

8.3

8.4

Drive motor rating S2 60 min

Lift motor rating at S3 15%

Battery voltage / capacity

Battery weight (+/- 5%)

Miscellaneous

Battery according to DIN 43531/35/36 A, B, C

Working hydraulic pressure for attachments

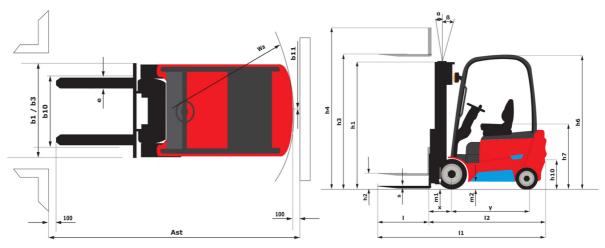
Energy consumption according to VDI cycle (kWh/h)

Sound level at the driver's ear according to DIN 12 053

1.1 1.2 1.3 1.4 1.5 1.6 1.8 1.9

> 2.1 2.2 2.3

3.1 3.2 3.3 3.5 3.5.2 3.6 3.7 4.7 4.8 4.12 4.19 4.20 4.21 4.22.1 4.23 4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.5 5.7 5.10



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | | FVD 30 | FVD 33 | FVD 37 | FVD 40 | FVD 45 |
|--|----|--------|--------|--------|--------|--------|
| a - Mast/fork carriage tilt, forward | ۰ | 6 | б | б | б | 6 |
| β - Mast/fork carriage tilt, backward | ٥ | 12 | 12 | 12 | 12 | 6 |
| h1 - Mast lowered height | mm | 2000 | 2150 | 2400 | 2600 | 2850 |
| h2 - Mast free lift | mm | 140 | 140 | 140 | 140 | 140 |
| h3 - Mast lifting height | mm | 3000 | 3300 | 3700 | 4000 | 4500 |
| h4 - Mast extended height | mm | 4046 | 4346 | 4746 | 5046 | 5546 |
| Residual capacity at max height | kg | 2500 | 2500 | 2500 | 2500 | 2450 |
| Residual capacity with integrated side shift at max heigth | kg | 2450 | 2450 | 2450 | 2450 | 2400 |

| Free Lift Triplex (FLT) | | FLT 40 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|---|----|--------|--------|--------|--------|--------|--------|--------|
| α - Mast/fork carriage tilt, forward | ۰ | 6 | 6 | 6 | 6 | 3 | 3 | 3 |
| β - Mast/fork carriage tilt, backward | ٥ | 6 | 6 | 6 | 6 | 6 | 6 | 6 |
| h1 - Mast lowered height | mm | 1950 | 2100 | 2200 | 2300 | 2450 | 2650 | 2850 |
| h2 - Mast free lift | mm | 904 | 1054 | 1154 | 1254 | 1404 | 1604 | 1804 |
| h3 - Mast lifting height | mm | 4000 | 4500 | 4800 | 5000 | 5500 | 6000 | 6500 |
| h4 - Mast extended height | mm | 5046 | 5546 | 5846 | 6046 | 6546 | 7046 | 7546 |
| Residual capacity at max height | kg | 2500 | 2350 | 2250 | 2150 | 2050 | 1850 | 1600 |
| Residual capacity with integrated side shift at max heigth | kg | 2450 | 2300 | 2200 | 2100 | 2000 | 1800 | 1550 |



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