

Technical sheet :

ME 316 LIFT

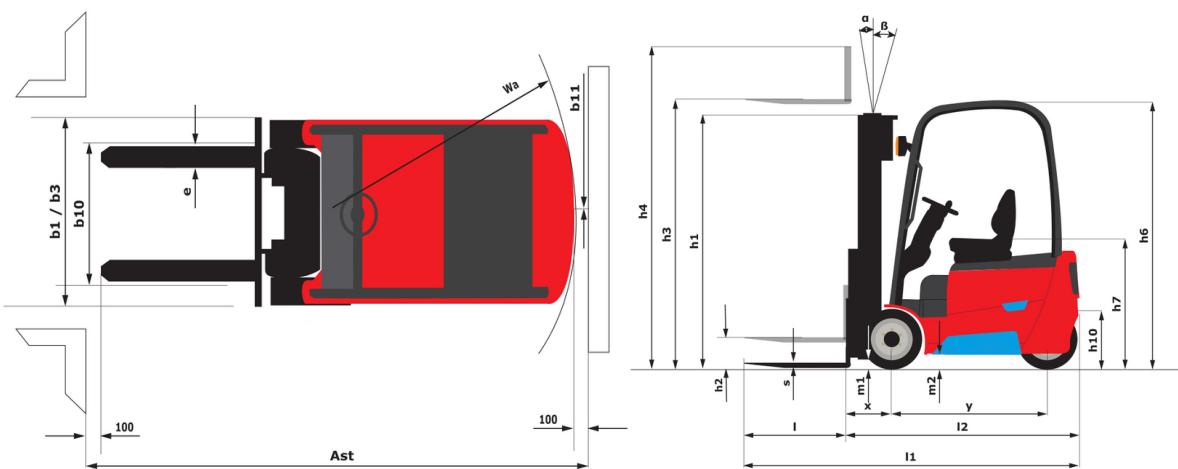
OXYGEN



 **MANITOU**
HANDLING YOUR WORLD

| Technical characteristics | | Metric | |
|---------------------------|---|-------------------------|--|
| 1.1 | Manufacturer | Manitou | |
| 1.2 | Model Name | ME 316 LIFT | |
| 1.3 | Power source | Electrical - Lithium | |
| 1.4 | Operator type | Seated | |
| 1.5 | Max. capacity | 1600 kg | |
| 1.6 | Load center of gravity | 500 mm | |
| 1.8 | Load distance, centre of drive axle to fork | 359.50 mm | |
| 1.9 | Wheelbase | 1277 mm | |
| | Standard mast reference of the machine | FVD 30 | |
| Weight | | Weight | |
| 2.1 | Service weight | 2940 kg | |
| 2.2 | Weight on front axle (laden) / rear axle (laden) | 3950 kg / 590 kg | |
| 2.3 | Weight on front axle (Unladen) / rear axle (Unladen) | 1340 kg / 1600 kg | |
| Wheels | | Wheels | |
| 3.1 | Tires type | Solid tires | |
| 3.2 | Dimensions of front wheels | 18x7-8 | |
| 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 | 914 mm | |
| 3.7 | Rear wheel gauge | 178 mm | |
| Dimensions | | Dimensions | |
| 4.8 | Seat height/stand height | 1120 mm | |
| 4.7 | Height of overhead guard (cabin) | 2147 mm | |
| 4.12 | Height of towing bar (coupling height) | 525 mm | |
| 4.19 | Overall length | 2776 mm | |
| 4.20 | Length to face of forks | 1856 mm | |
| 4.21 | Overall width | 1086 mm | |
| 4.22 | Forks section / width / length | 35 mm x 100 mm x 920 mm | |
| 4.23 | Fork carriage ISO 2328 (class/form) A/B | 2A | |
| 4.24 | Fork carriage width | 1000 mm | |
| 4.31 | Ground clearance below mast | 100 mm | |
| 4.32 | Ground clearance at centre of wheelbase | 110 mm | |
| 4.33 | Aisle Width for pallets 1000 x 1200 crossways | 3156 mm | |
| 4.34 | Aisle width for 800 x 1200 pallet lengthways | 3280 mm | |
| 4.35 | Turning radius | 1470 mm | |
| Performances | | Performances | |
| 5.1 | Travel speed (laden / unladen) | 16 km/h-16 km/h | |
| 5.2 | Lifting speed (laden / unladen) | 0.45 m/s-0.60 m/s | |
| 5.3 | Lowering speed (laden / unladen) | 0.46 m/s-0.44 m/s | |
| 5.5 | Drawbar pull (Laden / Unladen) | 330 daN / 390 daN | |
| 5.7 | Gradeability (laden / unladen) | 16 % / 18 % | |
| 5.10 | Service brake | Hydraulic | |
| Engine | | 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 / 230 Ah | |
| 6.5 | Battery weight (+/- 5%) | 185 kg | |
| 6.6 | Energy consumption according to VDI cycle (kWh/h) | 3.80 kWh/h | |
| Miscellaneous | | Miscellaneous | |
| 8.2 | Working hydraulic pressure for attachments | 185 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 316 LIFT - Dimensional drawing



Characteristics of masts and residual capacities

| Full Visibility Duplex (FVD) | |
|--|----|
| α - Mast/fork carriage tilt, forward | ° |
| β - Mast/fork carriage tilt, backward | ° |
| h1 - Mast lowered height | mm |
| h2 - Mast free lift | mm |
| h3 - Mast lifting height | mm |
| h4 - Mast extended height | mm |
| Residual capacity at max height | kg |
| Residual capacity with integrated side shift at max height | kg |

| FVD 30 | FVD 33 | FVD 40 | FVD 45 |
|--------|--------|--------|--------|
| 7 | 7 | 7 | 7 |
| 6 | 6 | 6 | 6 |
| 1988 | 2138 | 2588 | 2838 |
| 140 | 140 | 140 | 140 |
| 3000 | 3300 | 4000 | 4500 |
| 3560 | 3860 | 4560 | 5060 |
| 1600 | 1600 | 1600 | 1500 |
| 1550 | 1550 | 1550 | 1450 |

| Free Lift Triplex (FLT) | |
|--|----|
| α - Mast/fork carriage tilt, forward | ° |
| β - Mast/fork carriage tilt, backward | ° |
| h1 - Mast lowered height | mm |
| h2 - Mast free lift | mm |
| h3 - Mast lifting height | mm |
| h4 - Mast extended height | mm |
| Residual capacity at max height | kg |
| Residual capacity with integrated side shift at max height | kg |

| FLT 40 | FLT 45 | FLT 48 | FLT 50 | FLT 55 | FLT 60 | FLT 65 |
|--------|--------|--------|--------|--------|--------|--------|
| 3.50 | 3.50 | 6 | 3.50 | 3.50 | 3.50 | 3.50 |
| 5 | 5 | 12 | 5 | 5 | 5 | 5 |
| 1888 | 2038 | 1978 | 2213 | 2388 | 2588 | 2788 |
| 1292 | 1392 | 1492 | 1582 | 1792 | 1992 | 2192 |
| 4000 | 4500 | 4800 | 5000 | 5500 | 6000 | 6500 |
| 4552 | 5052 | | 5552 | 6052 | 6552 | 7052 |
| 1600 | 1500 | 1450 | 1400 | 1350 | 1250 | 1100 |
| 1550 | 1450 | 1400 | | 1200 | 1050 | 850 |

Equipment

Standard

Audio warning on reverse movements

Battery - 17.7kWh - Lithium-ion

Electric parking brake

External charger - 10kW AC - Lithium-ion - Three-phase

Front and Rear - Work Lights

Mechanical suspension PVC seat - Grammer MSG65

Overhead guard - With roof window (Tempered glass)

Panoramic interior rear view mirror

Rear working light

Optional

Battery - 23.3kWh - Lithium-ion

Closed cab

External charger - 8kW AC - Lithium-ion - Three-phase

Heater

LED front blue lamp

LED rear blue lamp

Mini levers - 4 hydraulics movements

Non marking tires

Open cab

Overhead guard - With tempered glass windshield

Writing table



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