

Technical sheet :

ME 425 LIFT

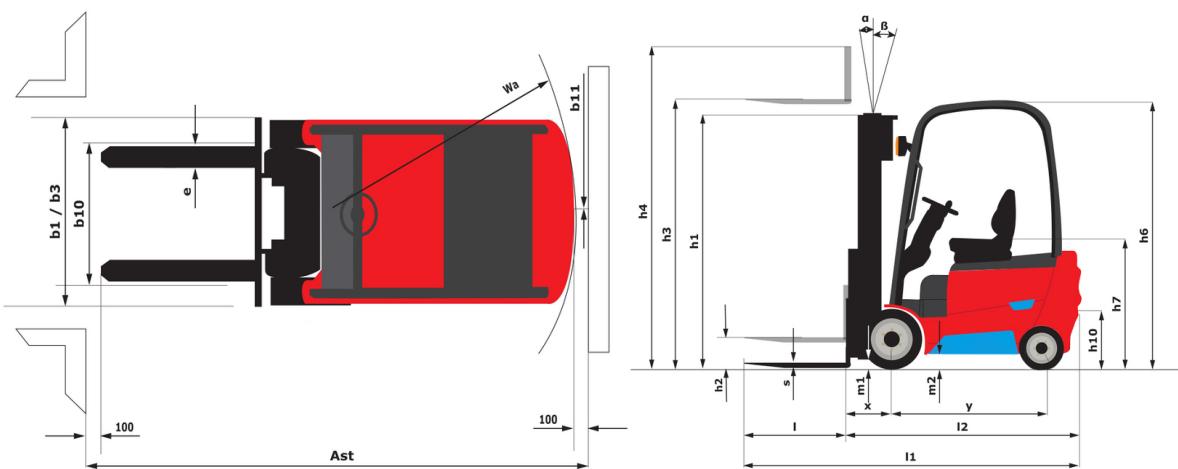
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 **MANITOU**
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Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ME 425 LIFT	
1.3	Power source	Electrical - Lithium	
1.4	Operator type	Seated	
1.5	Max. capacity	2500 kg	
1.6	Load center of gravity	500 mm	
1.8	Load distance, centre of drive axle to fork	431 mm	
1.9	Wheelbase	1520 mm	
	Standard mast reference of the machine	FVD 30	
Weight		Weight	
2.1	Service weight	3875 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	5595 kg / 780 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	1580 kg / 2295 kg	
Wheels		Wheels	
3.1	Tires type	Solid tires	
3.2	Dimensions of front wheels	23x9-10-18PR	
3.3	Dimensions of rear wheels	18x7-8-14PR	
3.5	Number of front wheels / rear wheels	2 / 2	
3.5.2	Number of drive wheels	2	
3.6	Front wheel gauge	1046 mm	
3.7	Rear wheel gauge	960 mm	
Dimensions		Dimensions	
4.8	Seat height/stand height	1155 mm	
4.7	Height of overhead guard (cabin)	2186 mm	
4.12	Height of towing bar (coupling height)	440 mm	
4.19	Overall length	3357 mm	
4.20	Length to face of forks	2287 mm	
4.21	Overall width	1271 mm	
4.22	Forks section / width / length	40 mm x 122 mm x 1070 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	2A	
4.24	Fork carriage width	1038 mm	
4.31	Ground clearance below mast	120 mm	
4.32	Ground clearance at centre of wheelbase	115 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	3670 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	3866 mm	
4.35	Turning radius	2035 mm	
Performances		Performances	
5.1	Travel speed (laden / unladen)	19 km/h-20 km/h	
5.2	Lifting speed (laden / unladen)	0.50 m/s-0.60 m/s	
5.3	Lowering speed (laden / unladen)	0.51 m/s-0.54 m/s	
5.5	Drawbar pull (Laden / Unladen)	8000 daN / 9000 daN	
5.7	Gradeability (laden / unladen)	13 % / 24 %	
5.10	Service brake	Hydraulic	
Engine		Engine	
6.1	Drive motor rating S2 60 min	20 kW	
6.2	Lift motor rating at S3 15%	26 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%)	225 kg	
6.6	Energy consumption according to VDI cycle (kWh/h)	6.50 kWh/h	
Miscellaneous		Miscellaneous	
8.2	Working hydraulic pressure for attachments	160 bar	
8.3	Oil flow rate for attachments	25 l/min	
8.4	Sound level at the driver's ear according to DIN 12 053	70 dB	

ME 425 LIFT - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward °	6	6	6	6	6
β - Mast/fork carriage tilt, backward °	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 height 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 °	6	6	6	6	3	3	3
β - Mast/fork carriage tilt, backward °	6	6	12	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	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 height kg	2450	2300	2200	2100	2000	1800	1550

Equipment

Standard

Audio warning on reverse movements
Battery - 23kWh - 76.8V - 304Ah - Lithium-ion
Electric parking brake
External charger - 10kW AC - Lithium-ion - Three-phase
LED front work lights (x2)
LED rear work light
Mechanical suspension PVC seat - Grammer MSG65
Overhead guard - With roof window (Tempered glass)
Panoramic interior rear view mirror

Optional

Battery - 35kWh - 76.8V - 460Ah - Lithium-ion
Charger - 20kW - 32A - 380V - Lithium-ion
Closed cab
External charger - 8kW AC - Lithium-ion - Three-phase
Heater
LED 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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