Technical sheet :

## ME 425 LIFT

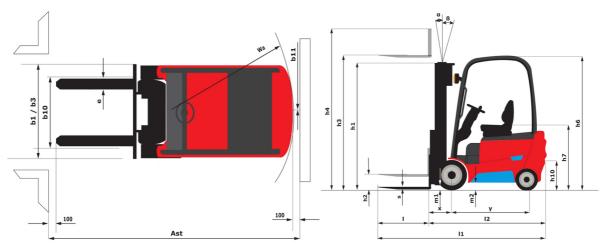




Manitou ME 425 LIFT Electrical - Lithium Seated 2500 kg 500 mm 431 mm 1520 mm FVD 30 3875 kg 5595 kg / 780 kg 1580 kg / 2295 kg Solid tires 23x9-10-18PR 18x7-8-14PR 2/2 2 1046 mm 960 mm 2186 mm 1155 mm 440 mm 3357 mm 2287 mm 1271 mm 40 mm x 122 mm 2A 1038 mm 120 mm 115 mm 3670 mm 3866 mm 2035 mm 19 km/h-20 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

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	Technical characteristics		
1.1	Manufacturer		
1.2	Model Name		
1.3	Power source		
1.4	Operator type		
1.5	Max. capacity	Q	
1.6	Load center of gravity	c	
1.8	Load distance, centre of drive axle to fork	x	
1.9	Wheelbase	y	
1.2	Standard mast reference of the machine	J	
	Weight		
2.1	Service weight		
2.1	Weight on front axle (laden) / rear axle (laden)		
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		
2.3	Wheels		
3.1	Tires type		
3.1	Dimensions of front wheels		
3.2	Dimensions of rear wheels		
3.5	Number of front wheels / rear wheels		
3.5.2	Number of trive wheels		
3.5.2	Front wheel gauge	b10	
3.7	Rear wheel gauge	b10	
5.7	Dimensions	011	
4.7	Height of overhead guard (cabin)	h6	
4.8	Seat height/stand height	h7	
4.12	Height of towing bar (coupling height)	h10	
4.19	Overall length	11	
4.20	Length to face of forks	12	
4.21	Overall width	b1	
4.22.1	Forks width / length	e / I	
4.23	Fork carriage ISO 2328 (class/form) A/B		
4.24	Fork carriage width	b3	
4.31	Ground clearance below mast	m1	
4.32	Ground clearance at centre of wheelbase	m2	
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	
4.35	Turning radius	Wa	
	Performances		
5.1	Travel speed (laden / unladen)		
5.2	Lifting speed (laden / unladen)		
5.3	Lowering speed (laden / unladen)		
5.5	Drawbar pull (Laden / Unladen)		
5.7	Gradeability (laden / unladen)		
5.10	Service brake		
	Engine		
6.1	Drive motor rating S2 60 min		
6.2	Lift motor rating at S3 15%		
6.3	Battery according to DIN 43531/35/36 A, B, C		
6.4	Battery voltage / capacity		
6.5	Battery weight (+/- 5%)		
6.6	Energy consumption according to VDI cycle (kWh/h)		
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		
8.3	Oil flow rate for attachments		
8.4	Sound level at the driver's ear according to DIN 12 053		

## 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
a - Mast/fork carriage tilt, forward	۰	6	6	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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