

Technical sheet :

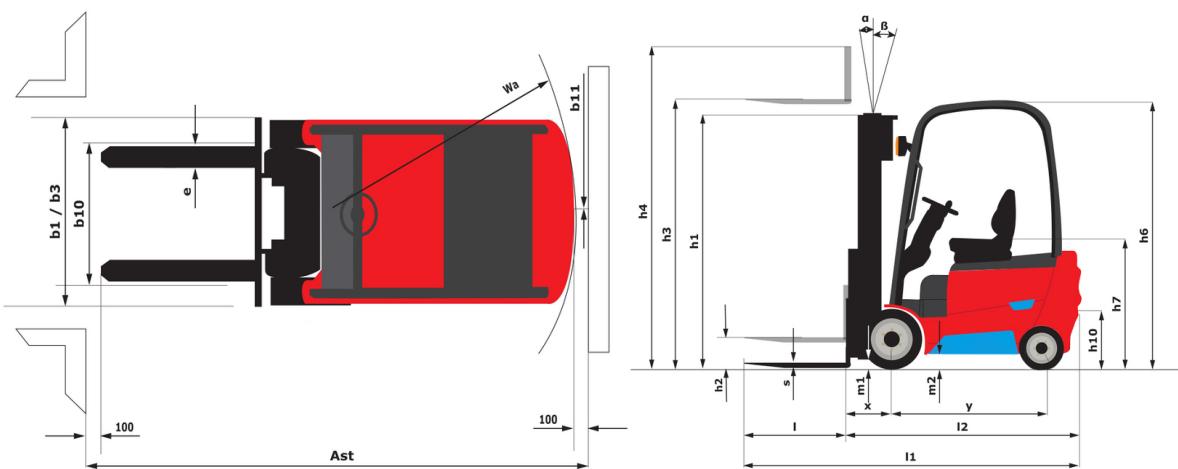
ME 430 LIFT



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ME 430 LIFT	
1.3	Power source	Electrical - Lithium	
1.4	Operator type	Seated	
1.5	Max. capacity	3000 kg	
1.6	Load center of gravity	500 mm	
1.8	Load distance, centre of drive axle to fork	463.50 mm	
1.9	Wheelbase	1650 mm	
	Standard mast reference of the machine	FVD 30	
Weight		Weight	
2.1	Service weight	4610 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	6610 kg / 1000 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	1960 kg / 2650 kg	
Wheels		Wheels	
3.1	Tires type	Solid tires	
3.2	Dimensions of front wheels	23x10-12-18PR	
3.3	Dimensions of rear wheels	18x7-8-16PR	
3.5	Number of front wheels / rear wheels	2 / 2	
3.5.2	Number of drive wheels	2	
3.6	Front wheel gauge	1044 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	3522.50 mm	
4.20	Length to face of forks	2452.50 mm	
4.21	Overall width	1298 mm	
4.22.1	Forks width / length	45 mm x 122 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	3A	
4.24	Fork carriage width	1100 m	
4.31	Ground clearance below mast	127 mm	
4.32	Ground clearance at centre of wheelbase	115 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	3854 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	4053.50 mm	
4.35	Turning radius	2190 mm	
Performances		Performances	
5.1	Travel speed (laden / unladen)	19 km/h-20 km/h	
5.2	Lifting speed (laden / unladen)	0.45 m/s-0.55 m/s	
5.3	Lowering speed (laden / unladen)	0.50 m/s-0.53 m/s	
5.5	Drawbar pull (Laden / Unladen)	850 daN / 950 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 / 460 Ah	
6.5	Battery weight (+/- 5%)	310 kg	
6.6	Energy consumption according to VDI cycle (kWh/h)	8 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 430 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	2007	2157	2407	2607	2857
h2 - Mast free lift	mm	145	145	145	145	145
h3 - Mast lifting height	mm	3000	3300	3700	4000	4500
h4 - Mast extended height	mm	4142	4442	4842	5142	5642
Residual capacity at max height	kg	3000	3000	3000	3000	3000
Residual capacity with integrated side shift at max height	kg	2900	2900	2900	2900	2900

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	6	6	6	6	6
h1 - Mast lowered height	mm	2007	2157	2307	2407	2607	2857	3057
h2 - Mast free lift	mm	865	1015	1165	1265	1465	1715	1915
h3 - Mast lifting height	mm	4000	4500	4800	5000	5500	6000	6500
h4 - Mast extended height	mm	5142	5642	5942	6142	6642	7142	7642
Residual capacity at max height	kg	3000	3000	2900	2850	2670	2350	2000
Residual capacity with integrated side shift at max height	kg	2900	2900	2800	2750	2570	2250	1900



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