Technical sheet:

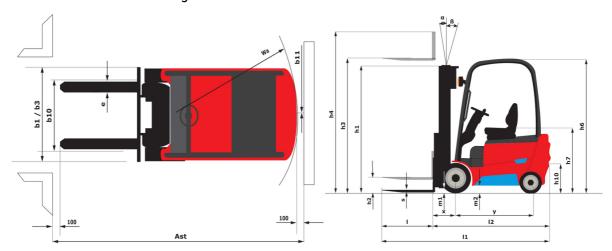
ME 430 LIFT





		ME 430 LIFT	Created on June 18, 2025 at 6:20 AM UTC
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 430 LIFT
1.3	Power source		Electrical
1.4	Operator type		Seated
1.5	Max. capacity	Q	3000 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	463.50 mm
1.9	Wheelbase	y	1650 mm
17	Standard mast reference of the machine	,	FVD 30
	Weight		1 40 30
2.1	Service weight		4610 kg
2.2	Weight on front axle (laden) / rear axle (laden)		6610 kg / 1000 kg
2.3			1960 kg / 2650 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen) Wheels		1900 kg / 2030 kg
2.1			Calid time
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	1.20	2
3.6	Front wheel gauge	b10	1044 mm
3.7	Rear wheel gauge	b11	960 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2186 mm
4.8	Seat height/stand height	h7	1155 mm
4.12	Height of towing bar (coupling height)	h10	440 mm
4.19	Overall length	- 11	3522.50 mm
4.20	Length to face of forks	I2	2452.50 mm
4.21	Overall width	b1	1298 mm
4.22.1	Forks width / length	e / I	45 mm x 122 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1100 m
4.31	Ground clearance below mast	m1	127 mm
4.32	Ground clearance at centre of wheelbase	m2	115 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3854 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4053.50 mm
4.35	Turning radius	Wa	2190 mm
	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)		8500 daN / 9500 daN
5.7	Gradeability (laden / unladen)		13 % / 24 %
5.10	Service brake		Hydraulic
	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		No
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)		8.22 kWh/h
	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)	
α - Mast/fork carriage tilt, forward	۰
β - Mast/fork carriage tilt, backward	۰
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 heigth	kg

FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
6	6	6	6	6
12	12	12	12	6
2007	2157	2407	2607	2857
140	140	140	140	140
3000	3300	3700	4000	4500
4046	4346	4746	5046	5546
3000	3000	3000	3000	3000
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	٠	6	6	6	6	3	3	3
β - Mast/fork carriage tilt, backward	۰	6	6	6	6	6	6	6
h1 - Mast lowered height	mm	2007	2157	2307	2407	2607	2857	3057
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	3000	3000	2900	2850	2670	2350	2000
Residual capacity with integrated side shift at max heigth	kg	2900	2900	2800	2750	2570	2250	1900





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