Technical sheet :

ME 435 LIFT

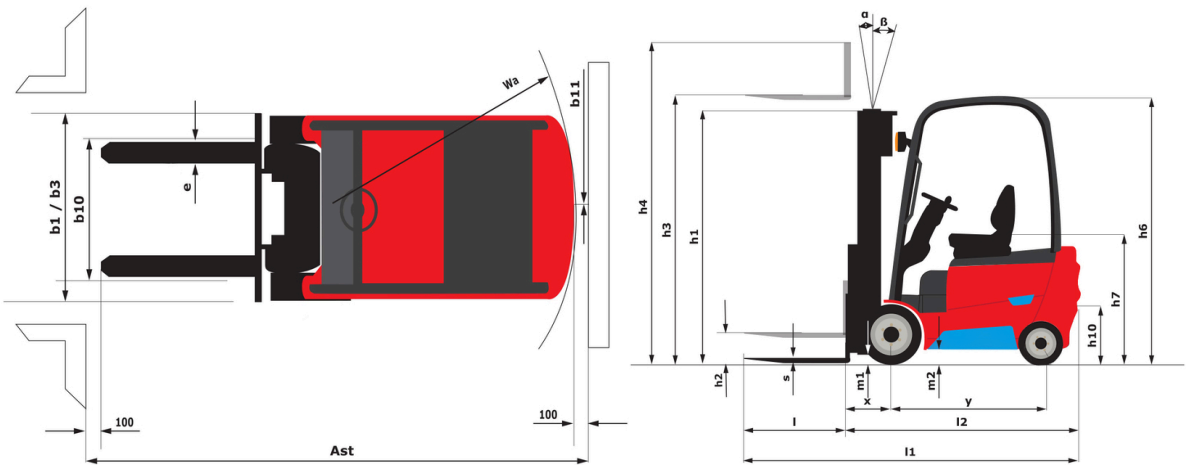
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	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 435 LIFT
1.3	Power source		Electrical - Lithium
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	479 mm
1.9	Wheelbase	y	1650 mm
	Standard mast reference of the machine		FVD 30
	Weight		
2.1	Service weight		5150 kg
2.2	Weight on front axle (laden) / rear axle (laden)		7575 kg / 950 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2010 kg / 3020 kg
	Wheels		
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		23×10-12-18PR
3.3	Dimensions of rear wheels		200/50
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1044 mm
3.7	Rear wheel gauge	b11	950 mm
	Dimensions		
4.8	Seat height/stand height	h7	1155 mm
4.7	Height of overhead guard (cabin)	h6	2186 mm
4.12	Height of towing bar (coupling height)	h10	440 mm
4.19	Overall length	l1	3565 mm
4.20	Length to face of forks	l2	2495 mm
4.21	Overall width	b1	1298 mm
4.22	Forks section / width / length	s / e / l	50 mm x 122 mm x 1070 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1100 mm
4.31	Ground clearance below mast	m1	127 mm
4.32	Ground clearance at centre of wheelbase	m2	125 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3909 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4054 mm
4.35	Turning radius	Wa	2230 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)		850 daN / 950 daN
5.7	Gradeability (laden / unladen)		13 % / 24 %
5.10	Service brake		Hydraulic
	Engine		
6.1	Number of drive motor / Drive motor rating S2 60 min		20 / 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
	Battery energy		35.30 kWh
6.5	Battery weight (+/- 5%)		310 kg
6.6	Energy consumption according to VDI cycle (kWh/h)		8 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 435 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	2157	2307	2507	2757	3007
h2 - Mast free lift	mm	150	150	150	150	150
h3 - Mast lifting height	mm	3000	3300	3700	4000	4500
h4 - Mast extended height	mm	3786	4086	4486	4786	5286
Residual capacity at max height	kg	3500	3500	3500	3500	3300
Residual capacity with integrated side shift at max heigth	kg	3400	3400	3400	3400	3200

Free Lift Triplex (FLT)		FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65	FLT 70
α - Mast/fork carriage tilt, forward	°	6	6	6	6	6	3	3	3	3
β - Mast/fork carriage tilt, backward	°	6	6	6	6	6	6	6	6	6
h1 - Mast lowered height	mm	2107	2207	2307	2457	2607	2857	3107	3357	
h2 - Mast free lift	mm	1277	1377	1477	1600	1777	2000	2200	2500	
h3 - Mast lifting height	mm	4000	4300	4500	4800	5000	5500	6000	6500	7000
h4 - Mast extended height	mm	4830	5130	5330	5657	5830	6357	6907	7357	
Residual capacity at max height	kg	3500	3400	3200	3100	3050	3000	2650	2400	
Residual capacity with integrated side shift at max heigth	kg	3400	3300	3100	3000	2950	2900	2550	2300	

Equipment

Standard
Audio warning on reverse movements
Battery - 35.3kWh - Lithium-ion
Electric parking brake
External charger - 10kW AC - Lithium-ion - Three-phase
LED rear work light
Mechanical suspension PVC seat - Grammer MSG65
Overhead guard - With roof window (Tempered glass)
Panoramic interior rear view mirror
Rear working light

Optional
Battery - 46.7kWh - Lithium-ion
Enclosed cab
External charger - 20kW AC - Lithium-ion - Three-phase
External charger - 8kW AC - Lithium-ion - Three-phase
Heater
LED blue lamp
LED rear blue lamp
Non marking tires
Open cab
Overhead guard - With tempered glass windshield
Writing table

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