

Technical sheet :

# ME 425 LIFT

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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	Q	2500 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	431 mm
1.9	Wheelbase	y	1520 mm
	Standard mast reference of the machine		FVD 30
	<b>Weight</b>		
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
	<b>Wheels</b>		
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	b10	1046 mm
3.7	Rear wheel gauge	b11	960 mm
	<b>Dimensions</b>		
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	l1	3357 mm
4.20	Length to face of forks	l2	2287 mm
4.21	Overall width	b1	1271 mm
4.22	Forks section / width / length	s / e / l	40 mm x 122 mm x 1070 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1038 mm
4.31	Ground clearance below mast	m1	120 mm
4.32	Ground clearance at centre of wheelbase	m2	115 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3670 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3866 mm
4.35	Turning radius	Wa	2035 mm
	<b>Performances</b>		
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
	<b>Engine</b>		
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
	<b>Miscellaneous</b>		
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 - 35,3kWh - 76,8V - 460Ah - Lithium-ion
Charger - 10kW- 32A - 380V - Lithium-ion - Three-phase
Electric parking brake
LED front right and left working lights (x2)
Load backrest - width : 1200 mm - LB 1200
Overhead guard with glass roof
PVC mechanical suspension seat
Panoramic inner rear view mirror
Rear working light

Optional
2 additional front working lights
3 way distributor with levers in line
4 way distributor with levers in line
Battery - 47kWh - 76.8V - 608Ah - Lithium
Charger - 20kW - 32A - 380V - Lithium-ion
Charger - 8kW - 32A - 380V - Lithium-ion
Closed cab
Hydraulic kit 3rd and 4th element
Mini levers
Open cab



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