Technical sheet :

# ME 425 LD LIFT





	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	С
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase	у
	Standard mast reference of the machine	
	Weight	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
3.1	Tires type	
3.2	Dimensions of front wheels	
3.3	Dimensions of rear wheels	
3.5	Number of front wheels	
3.5.2	Number of drive wheels	
3.6	Front wheel gauge	b10
3.7	Rear wheel gauge	b11
0.7	Dimensions	
4.7	Height of overhead guard (cabin)	h6
4.8	Seat height/stand height	h7
4.12	Height of towing bar (coupling height)	h10
4.12	Overall length	11
4.19	Length to face of forks	12
4.20	Overall width	b1
4.21		s/e/l
4.22	Forks section / width / length	5/8/1
4.23	Fork carriage ISO 2328 (class/form) A/B	b3
	Fork carriage width Ground clearance below mast	m1
4.31		
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	
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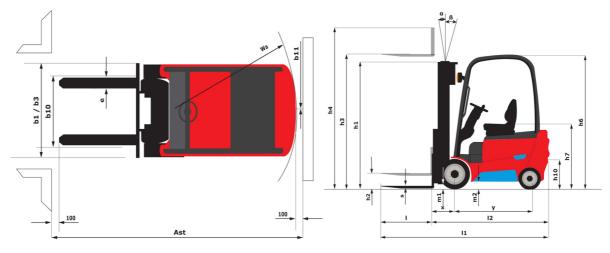
#### ME 425 LD LIFT Created on July 31, 2025 at 2:12 AM UTC

	Metric
	Manitou
	ME 425 LD LIFT
	Electrical - Lithium
	Seated
Q	2500 kg
С	500 mm
х	431 mm
у	1520 mm
	FVD 30
	3830 kg
	5575 kg / 755 kg
	1560 kg / 2270 kg
	Solid tires
	23x9-10-18PR
	18X7-8-14PR
	2
140	2
b10	1046 mm
b11	960 mm
h6	2186 mm
h7	1155 mm
h10	440 mm
11	3357 mm
12	2287 mm
b1	1271 mm
s/e/l	40 mm x 122 mm x 1070 mm
	2A
b3	1038 mm
m1	120 mm
m2	115 mm
Ast	3670 mm
Ast	3866 mm
Wa	2035 mm
	16 km/h-17 km/h
	0.35 m/s-0.46 m/s
	0.51 m/s-0.54 m/s
	6000 daN / 6500 daN
	10 % / 18 %
	Hydraulic
	17 kW
	23 kW
	No
	76.80 V / 230 Ah
	180 kg
	5.70 kWh/h
	160 bar
	25 l/min
	70 dB

### ME 425 LD LIFT - Dimensional drawing

Sound level at the driver's ear according to DIN 12 053

8.4



## 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	б	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 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	3	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		6046		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

### 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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