Technical sheet:

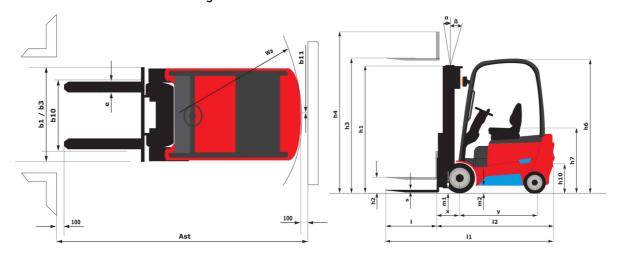
## ME 425 LD LIFT





		FIL TES ES EN 1 CICALCA	on September 13, 2023 at 7.39 AW
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 425 LD 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	С	500 mm
1.8	Load distance, centre of drive axle to fork	X	431 mm
1.9	Wheelbase	у	1520 mm
	Standard mast reference of the machine		FVD 30
	Weight		
2.1	Service weight		3830 kg
2.2	Weight on front axle (laden) / rear axle (laden)		5575 kg / 755 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1560 kg / 2270 kg
2.0	Wheels		1000 kg / 2270 kg
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		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
3.7	Dimensions	511	300 mm
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
4.12	Overall length	l1	3357 mm
4.19	Length to face of forks	12	2287 mm
4.20	Overall width	b1	1271 mm
.22.1	Forks width / length	e / I	40 mm x 122 mm
4.23	Fork carriage ISO 2328 (class/form) A/B	6/1	2A
4.23	Fork carriage width	b3	1038 mm
4.24	Ground clearance below mast		120 mm
		m1	
4.32	Ground clearance at centre of wheelbase	m2	115 mm 3670 mm
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3866 mm
4.35	Turning radius	Wa	2035 mm
F 1	Performances		16 loss (b. 17 loss (b.
5.1	Travel speed (laden / unladen)		16 km/h-17 km/h
5.2	Lifting speed (laden / unladen)		0.35 m/s-0.46 m/s
5.3	Lowering speed (laden / unladen)		0.51 m/s-0.54 m/s
5.5	Drawbar pull (Laden / Unladen)		6000 daN / 6500 daN
5.7	Gradeability (laden / unladen)		10 % / 18 %
5.10	Service brake		Hydraulic
6.1	Engine		47.111
6.1	Drive motor rating S2 60 min		17 kW
6.2	Lift motor rating at \$3 15%		23 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		Lithium
6.4	Battery voltage / capacity		76.80 V / 230 Ah
6.5	Battery weight (+/- 5%)		180 kg
6.6	Energy consumption according to VDI cycle (kWh/h)		5.70 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 425 LD 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
2000	2150	2400	2600	2850
140	140	140	140	140
3000	3300	3700	4000	4500
4046	4346	4746	5046	5546
2500	2500	2500	2500	2450
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	۰	6	6	6	6	12	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	5846	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 heigth	kg	2450	2300	2200	2100	2000	1800	1550





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