Technical sheet :

ME 425 LIFT





Technical characteristics		Metric
Manufacturer		Manitou
Aodel Name		ME 425 LIFT
Power source		Electrical - Lithium
)perator type		Seated
/ax. capacity	Q	2500 kg
oad center of gravity	С	500 mm
oad distance, centre of drive axle to fork	x	431 mm
Vheelbase	у	1520 mm
Standard mast reference of the machine		FVD 30
Neight		
Service weight		3875 kg
Veight on front axle (laden) / rear axle (laden)		5595 kg / 780 kg
Veight on front axle (Unladen) / rear axle (Unladen)		1580 kg / 2295 kg
Vheels		
Tires type		Solid tires
Dimensions of front wheels		23x9-10-18PR
Dimensions of rear wheels		18x7-8-14PR
Number of front wheels / rear wheels		2 / 2
Number of drive wheels		2
ront wheel gauge	b10	1046 mm
Rear wheel gauge	b11	960 mm
Dimensions		
leight of overhead guard (cabin)	h6	2186 mm
Seat height/stand height	h7	1155 mm
leight of towing bar (coupling height)	h10	440 mm
Overall length	1	3357 mm
ength to face of forks	12	2287 mm
Overall width	b1	1271 mm
orks width / length	e / I	40 mm x 122 mm
Fork carriage ISO 2328 (class/form) A/B		2A
ork carriage width	b3	1038 mm
Ground clearance below mast	m1	120 mm
Ground clearance at centre of wheelbase	m2	115 mm
Aisle Width for pallets 1000 x 1200 crossways	Ast	3670 mm
Aisle width for 800 x 1200 pallet lengthways	Ast	3866 mm
Turning radius	Wa	2035 mm
Performances		
ravel speed (laden / unladen)		19 km/h-20 km/h
ifting speed (laden / unladen)		0.50 m/s-0.60 m/s
owering speed (laden / unladen)		0.51 m/s-0.54 m/s
Drawbar pull (Laden / Unladen)		8000 daN / 9000 daN
Gradeability (laden / unladen)		13 % / 24 %

LIFT	Created on August 15, 2025 at 12.38 PM OTC
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	Manitou
	ME 425 LIFT
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	Seated
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х	431 mm
у	1520 mm
,	FVD 30
	3875 kg
	5595 kg / 780 kg
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	Solid tires
	23x9-10-18PR
	18x7-8-14PR
	2/2
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11	960 mm
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51	1271 mm
/1	40 mm x 122 mm
	2A
53	1038 mm
n1	120 mm
n2	115 mm
st	3670 mm
st	3866 mm
Va	2035 mm
	19 km/h-20 km/h
	0.50 m/s-0.60 m/s
	0.51 m/s-0.54 m/s
	8000 daN / 9000 daN
	13 % / 24 %
	Hydraulic
	20 kW
	26 kW
	Lithium
	76.80 V / 304 Ah
	225 kg
	6.50 kWh/h
	160 bar
	25 l/min
	70 dB

ME 425 LIFT - Dimensional drawing

Oil flow rate for attachments

Service brake Engine

6.1 6.2

6.3 6.4

6.5

6.6

8.2

8.3

8.4

Drive motor rating S2 60 min

Lift motor rating at S3 15%

Battery voltage / capacity

Battery weight (+/- 5%)

Miscellaneous

Battery according to DIN 43531/35/36 A, B, C

Working hydraulic pressure for attachments

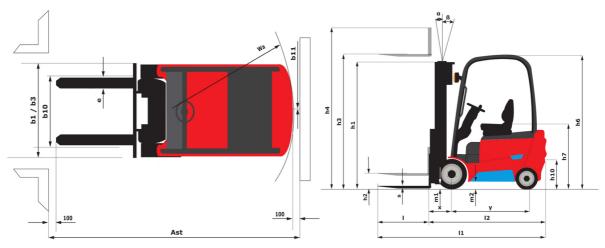
Energy consumption according to VDI cycle (kWh/h)

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

1.1 1.2 1.3 1.4 1.5 1.6 1.8 1.9

> 2.1 2.2 2.3

3.1 3.2 3.3 3.5 3.5.2 3.6 3.7 4.7 4.8 4.12 4.19 4.20 4.21 4.22.1 4.23 4.24 4.31 4.32 4.33 4.34 4.35 5.1 5.2 5.3 5.5 5.7 5.10



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
a - Mast/fork carriage tilt, forward	۰	6	б	б	б	6
β - Mast/fork carriage tilt, backward	٥	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	6	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	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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