

Technical sheet :

ME 320 LIFT

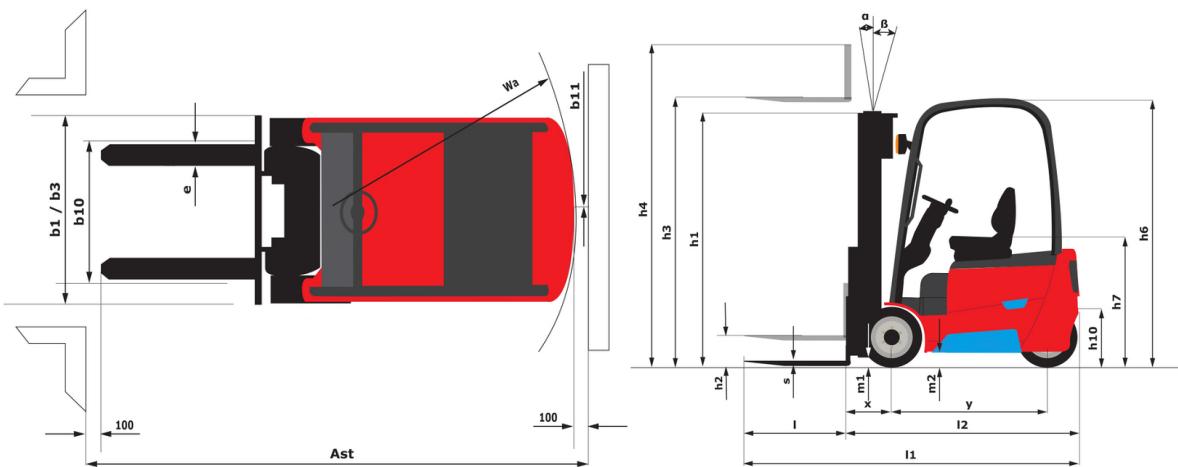
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 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics		Metric	
1.1	Manufacturer	Manitou	
1.2	Model Name	ME 320 LIFT	
1.3	Power source	Electrical - Lithium	
1.4	Operator type	Seated	
1.5	Max. capacity	2000 kg	
1.6	Load center of gravity	500 mm	
1.8	Load distance, centre of drive axle to fork	364.50 mm	
1.9	Wheelbase	1407 mm	
	Standard mast reference of the machine	FVD 30	
Weight		Weight	
2.1	Service weight	3200 kg	
2.2	Weight on front axle (laden) / rear axle (laden)	4580 kg / 620 kg	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	1365 kg / 1835 kg	
Wheels		Wheels	
3.1	Tires type	Solid tires	
3.2	Dimensions of front wheels	200/50-10	
3.3	Dimensions of rear wheels	15x4,5-8	
3.5	Number of front wheels / rear wheels	2 / 1	
3.5.2	Number of drive wheels	2	
3.6	Front wheel gauge	932 mm	
3.7	Rear wheel gauge	178 mm	
Dimensions		Dimensions	
4.8	Seat height/stand height	1120 mm	
4.7	Height of overhead guard (cabin)	2158 mm	
4.12	Height of towing bar (coupling height)	525 mm	
4.19	Overall length	2907 mm	
4.20	Length to face of forks	1987 mm	
4.21	Overall width	1153 mm	
4.22	Forks section / width / length	40 mm x 100 mm x 920 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	2A	
4.24	Fork carriage width	1000 mm	
4.31	Ground clearance below mast	100 mm	
4.32	Ground clearance at centre of wheelbase	110 mm	
4.33	Aisle Width for pallets 1000 x 1200 crossways	3316 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	3440 mm	
4.35	Turning radius	1625 mm	
Performances		Performances	
5.1	Travel speed (laden / unladen)	15 km/h-15 km/h	
5.2	Lifting speed (laden / unladen)	0.40 m/s-0.55 m/s	
5.3	Lowering speed (laden / unladen)	0.47 m/s-0.42 m/s	
5.5	Drawbar pull (Laden / Unladen)	305 daN / 370 daN	
5.7	Gradeability (laden / unladen)	13 % / 15 %	
5.10	Service brake	Hydraulic	
Engine		Engine	
6.1	Drive motor rating S2 60 min	2.50 kW	
6.2	Lift motor rating at S3 15%	11 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%)	300 kg	
6.6	Energy consumption according to VDI cycle (kWh/h)	4.60 kWh/h	
Miscellaneous		Miscellaneous	
8.2	Working hydraulic pressure for attachments	210 bar	
8.3	Oil flow rate for attachments	30 l/min	
8.4	Sound level at the driver's ear according to DIN 12 053	70 dB	

ME 320 LIFT - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	
α - Mast/fork carriage tilt, forward	°
β - Mast/fork carriage tilt, backward	°
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 height	kg
1950	1950

FVD 30	FVD 33	FVD 37	FVD 40	FVD 45
7	7	7	7	7
6	6	6	6	6
1988	2138	2388	2588	2838
140	140	140	140	140
3000	3300	3700	4000	4500
3560	3860	4210	4560	5060
2000	2000		2000	1900
1950	1950		1950	1850

Free Lift Triplex (FLT)	
α - Mast/fork carriage tilt, forward	°
β - Mast/fork carriage tilt, backward	°
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 height	kg
1950	1950

FLT 40	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
3.50	3.50	3.50	3.50	3.50	3.50	3.50
5	5	5	5	5	5	5
1888	2038	2138	2213	2388	2588	2788
1292	1392	1492	1592	1792	1992	2192
4000	4500	4800	5000	5500	6000	6500
4552	5052	5352	5552	6052	6552	7052
2000	1800	1700	1600	1500	1300	1100
1950	1750	1650	1550	1450	1250	1050

Equipment

Standard

Audio warning on reverse movements
Battery - 23.3kWh - Lithium-ion
Electric parking brake
External charger - 10kW AC - Lithium-ion - Three-phase
Front and Rear - Work Lights
Mechanical suspension PVC seat - Grammer MSG65
Overhead guard - With roof window (Tempered glass)
Panoramic interior rear view mirror
Rear working light

Optional

Battery - 35kWh - 76.8V - 460Ah - Lithium-ion
Charger - 20kW - 32A - 380V - Lithium-ion
Closed cab
External charger - 8kW AC - Lithium-ion - Three-phase
Heater
LED front blue lamp
LED rear blue lamp
Mini levers - 4 hydraulics movements
Non marking tires
Open cab
Overhead guard - With tempered glass windshield
Writing table

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