Technical sheet:

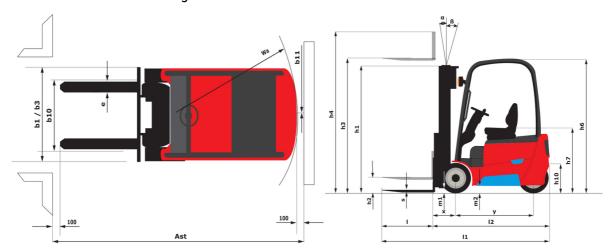
ME 316 LIFT





		ME 316 LIFT Created	on September 14, 2025 at 4:38 PM 010
	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 316 LIFT
1.3	Power source		Electrical - Lithium
1.4	Operator type		Seated
1.5	Max. capacity	Q	1600 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	X	359.50 mm
1.9	Wheelbase	y	1277 mm
	Standard mast reference of the machine	,	FVD 30
	Weight		
2.1	Service weight		2940 kg
2.2	Weight on front axle (laden) / rear axle (laden)		3950 kg / 590 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1340 kg / 1600 kg
2.0	Wheels		10 10 kg / 1000 kg
3.1	Tires type		Solid tires
3.2	Dimensions of front wheels		18x7-8
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	b10	914 mm
3.7		b11	178 mm
3.7	Rear wheel gauge Dimensions	DII	176 11111
4.7		h6	2147 mm
4.7	Height of overhead guard (cabin) Seat height/stand height	h7	1120 mm
4.0	3	h10	525 mm
4.12	Height of towing bar (coupling height) Overall length	I1	2776 mm
4.19	Length to face of forks	12	1856 mm
4.20	Overall width	b1	1086 mm
4.21	Forks width / length	e / I	35 mm x 100 mm
4.22.1	Fork carriage ISO 2328 (class/form) A/B	6/1	2A
4.23	Fork carriage width	b3	1000 mm
4.24	Ground clearance below mast	m1	100 mm
4.31	Ground clearance at centre of wheelbase	m2	110 mm
4.32		Ast	3156 mm
4.34	Aisle Width for pallets 1000 x 1200 crossways Aisle width for 800 x 1200 pallet lengthways	Ast	3280 mm
4.35		Wa	1470 mm
4.55	Tuming radius Performances	vva	14/0 111111
5.1	Travel speed (laden / unladen)		16 km/h-16 km/h
	, ,		0.45 m/s-0.60 m/s
5.2	Lifting speed (laden / unladen)		
5.3	Lowering speed (laden / unladen)		0.46 m/s-0.44 m/s
5.5 5.7	Drawbar pull (Laden / Unladen)		3300 daN / 3900 daN 16 % / 18 %
5.7	Gradeability (laden / unladen) Service brake		Hydraulic
5.10			Hydraulic
6.1	Engine Drive meter rating \$2.60 min		2 FO kW
6.1	Drive motor rating \$2 60 min		2.50 kW 11 kW
6.2	Lift motor rating at S3 15%		Lithium
6.4	Battery according to DIN 43531/35/36 A, B, C		76.80 V / 230 Ah
	Battery voltage / capacity		
6.5	Battery weight (+/- 5%)		185 kg
6.6	Energy consumption according to VDI cycle (kWh/h)		3.80 kWh/h
0.0	Miscellaneous		105
8.2	Working hydraulic pressure for attachments		185 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 316 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 40	FVD 45
7	7	7	7
6	6	6	6
1988	2138	2588	2838
140	140	140	140
3000	3300	4000	4500
3560	3860	4560	5060
1600	1600	1600	1500
1550	1550	1550	1450

Free Lift Triplex (FLT)		FLT 40	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
α - Mast/fork carriage tilt, forward °		3.50	3.50	3.50	3.50	3.50	3.50	3.50
β - Mast/fork carriage tilt, backward	۰	5	5	5	5	5	5	5
h1 - Mast lowered height	mm	1888	2038	2138	2213	2388	2588	2788
h2 - Mast free lift	mm	1292	1392	1492	1582	1792	1992	2192
h3 - Mast lifting height	mm	4000	4500	4800	5000	5500	6000	6500
h4 - Mast extended height	mm	4552	5052	5352	5552	6052	6552	7052
Residual capacity at max height	kg	1600	1500	1450	1400	1250	1100	900
Residual capacity with integrated side shift at max heigth	kg	1550	1450	1400	1350	1200	1050	850





Head Office

B.P. 249 - 430 rue de l'Aubinière 44150 Ancenis Cedex - France Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97 www.manitou.com



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