Technical sheet:

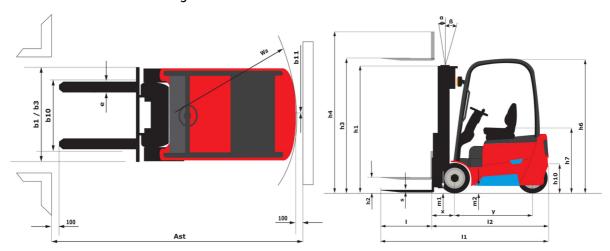
ME 316 LIFT





Technical characteristics			ME 316 LIFT	Greated Off August 10, 2023 at 3.23 FW OT
March Name		Technical characteristics		Metric
	1.1	Manufacturer		Manitou
1.5	1.2	Model Name		ME 316 LIFT
1.5	1.3	Power source		Electrical - Lithium
1.6	1.4	Operator type		Seated
1.9 Wheelbare Wheelbare	1.5	Max. capacity	Q	1600 kg
1.9 Wheelbase Foot 30 Foot week Foot 30 Foot 30 Foot 30 Foot 30 Foot 50 Foot 30 Foot 50 Foot 50	1.6	Load center of gravity	С	500 mm
1.9 Wheelbase Foot 30 Foot week Foot 30 Foot 30 Foot 30 Foot 30 Foot 50 Foot 30 Foot 50 Foot 50	1.8	Load distance, centre of drive axle to fork	x	359.50 mm
Standard mast reference of the machine PAD 30	1.9		У	1277 mm
		Standard mast reference of the machine		FVD 30
		Weight		
Weight on front asie (laden) / rear asie (laden) 3990 kg/ 590 kg 130 kg / 1600 kg 130 kg / 130	2.1	-		2940 kg
2.3 Weight on front axle (Unladen) / rear axle (Unladen) 1340 kg / 1600 kg 3.1 Ties type Solid titres 3.2 Dimensions of front wheels 15x / 8 3.5 Dimensions of front wheels 2/1 3.5.2 Number of front wheels / rear wheels 2/1 3.5 Number of front wheels / rear wheels 10 3.7 Rear wheel gauge b10 914 mm 3.7 Rear wheel gauge b10 914 mm 4.7 Height of owerhead guard (cabin) h6 2147 mm 4.8 Seat height stand height h7 1120 mm 4.1 Height of owerhead guard (cabin) h7 1120 mm 4.2 Height of owerhead guard (cabin) h7 1120 mm 4.1 Height of owerhead guard (cabin) h10 55 mm 4.2 Height of owerhead guard (cabin) h10 55 mm 4.1 Height of owerhead guard (cabin) h1 277 mm 4.2 Height of owerhead guard (cabin) h1 277 mm 4.3 Length ba				
Neels	2.3	- , , , ,		
3.1 Tires type Solid tres 3.2 Dimensions of front wheels 187.78 3.3 Dimensions of front wheels 154.45 3.5 Number of front wheels / rear wheels 2 / 1 3.5.2 Number of dire wheels 2 3.6 Front wheel gauge b10 914 mm 3.7 Rear wheel gauge b11 178 mm 4.7 Height of overhead guard (cabin) h6 2147 mm 4.8 Seat height/stand height h10 525 mm 4.12 Height of fowing bar (coupling height) h10 525 mm 4.19 Overall length h10 527 mm 4.10 Useflight of flowing bar (coupling height) h10 525 mm 4.11 Overall width h10 525 mm 4.12 Height of flowing bar (coupling height) h10 525 mm 4.13 Overall width h1 2776 mm 4.12 Height for flowing bar (coupling height) h10 525 mm 4.21 Overall width h1				10.10.113
3.2 Dimensions of front wheels 18x7-8 3.3 Dimensions of rear wheels 2 / 1 3.5 Number of front wheels 2 / 1 3.5. Front wheel gauge b10 914 mm 3.6 Front wheel gauge b11 178 mm Olimensions Olimensions 4.7 Height of overhead guard (cabin) h6 2147 mm 4.8 Seatheight/stand height h7 1120 mm 4.19 Overall length h10 525 mm 4.19 Overall length h10 525 mm 4.20 Length to face of forks 12 1856 mm 4.21 Overall length b1 1056 mm 4.21 Overall length b1 1056 mm 4.22 Fork swidh* Jength b1 1056 mm 4.23 Fork carriage ISO 2328 (class/form) A/B b3 1000 mm 4.24 Fork carriage widh b3 1000 mm 4.25 Ground clearance below mast m1 100 mm	3 1			Solid tires
3.3 Dimensions of rear wheels 15x4,58 3.5 Number of front wheels / rear wheels 2 / 1 3.5 Number of front wheels 2 3.6 Fornt wheel gauge b10 914 mm 3.7 Rear wheel gauge b10 178 mm 4.7 Height of owehead quard (cabin) h6 2147 mm 4.8 Sea height/stand height h7 1120 mm 4.19 Overall length h10 525 mm 4.19 Overall length of fowing bar (coupling height) h10 525 mm 4.19 Overall weld h10 525 mm 4.19 Overall weld h10 527 mm 4.21 Overall weld h1 277 6 mm 4.21 Fork carriage ISO 2328 (class/form) A/B e / 1 35 mm x 100 mm 4.22 Fork carriage width b1 100 mm 4.23 Fork carriage width b2 100 mm 4.24 Fork carriage width b3 100 mm 4.23 Asie Which for pallers 1000 x 1200 crossways Ast 3156 mm 4.25 Turning adias <td></td> <td>•</td> <td></td> <td></td>		•		
3.5. Number of front wheels / rear wheels 2 / 1 3.5. Number of drive wheels 2 3.6 Front wheel gauge b10 914 mm 3.7 Bear wheel gauge b11 178 mm 4.7 Height of owerhead guard (cabin) h6 2147 mm 4.8 Seat height/stand height h7 1120 mm 4.12 Height of towing bar (coupling height) h10 525 mm 4.19 Overall length l1 2776 mm 4.20 Length of face of forks l2 1856 mm 4.21 Overall width b1 1086 mm 4.21 Overall width e/1 35 mm x 100 mm 4.22 Overall width e/1 35 mm x 100 mm 4.23 Fork carriage width b3 10000 mm 4.24 Fork carriage width b3 10000 mm 4.31 As carriage width b3 1000 mm 4.32 Ground clearance below mast m1 10 mm 4.31 As Will will for pallest 1000 x 1200 pallet lengthways Ast 3156 mm 4.35 <				
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3.6 Front wheel gauge b10 914 mm 3.7 Rear wheel gauge b10 178 mm 4.7 Height of overhead guard (cabin) b6 2147 mm 4.8 Seat height/stand height h7 1120 mm 4.12 Height of towing pair (coupling height) h10 525 mm 4.19 Overall length l1 2776 mm 4.20 Length of face of forks l1 2776 mm 4.21 Coverall width b1 1086 mm 4.21 Fork saidh, length e / l 35 mm x 100 mm 4.21 Fork carriage ISO 2328 (class/form) A/B E 2 4.22 Fork carriage ISO 238 (class/form) A/B B3 1000 mm 4.23 Fork carriage ISO 238 (class/form) A/B B3 1000 mm 4.31 Ground clearance at center of wheelbase m2 110 mm 4.32 Ground clearance at center of wheelbase m2 110 mm 4.33 A jale width for spllets 1000 x 1200 crossways Ast 3328 mm 5.1 Travel s				
3.7 Rear wheel gauge b11 178 mm 17 Dimensions Commensions Commensions 4.8 Seat height/stand height h6 2147 mm 4.81 Seat height/stand height h7 1120 mm 4.12 Height of fowing bar (coupling height) h10 525 mm 4.12 Height of fowing bar (coupling height) h11 2776 mm 4.20 Length to face of forks 12 1856 mm 4.21 Overall width b1 1086 mm 4.22 Overall width (length e/1 35 mm x 100 mm 4.23 Fork camage bEO 2228 (class/form) A/B 2 2A 4.24 Fork camage bEO 2228 (class/form) A/B 2 2A 4.24 Fork camage bEO 2228 (class/form) A/B 3 1000 mm 4.24 Fork camage bEO 2228 (class/form) A/B 2 2A 4.24 Fork camage bEO 2228 (class/form) A/B 3 1000 mm 4.23 Ground clearance at centre of wheelbase m2 110 mm 4.33 Alse Width fo			h10	
4.7 Height of overhead guard (cabin) h6 2147 mm 4.8 Seat height (stand height) h7 1120 mm 4.12 Height of towing and (coupling height) h10 525 mm 4.19 Overall deight (stand) h11 2776 mm 4.20 Length to face of forks l2 1856 mm 4.21 Overall width b1 1086 mm 4.22.1 Forks width / length e / 1 35 mm x 100 mm 4.23 Fork carriage SIO 2228 (class/form) A/B 2A 2A 4.24 Fork carriage Width m1 100 mm 4.31 Ground clearance below mast m1 100 mm 4.32 Ground clearance at centre of wheelbase m2 110 mm 4.33 Aisle Width for pallets 1000 x 1200 crossways Ast 3156 mm 4.34 Aisle width for good x 1200 pallet lengthways Ast 3280 mm 4.35 Tuming radius Wa 16 km/h-16 km/h 5.2 Tirking speed (laden / unladen) 16 km/h-16 km/h 5.5 Drawbar pu	3.7		011	170 11111
4.8 Seat height/stand height h7 1120 mm 4.12 Height of towing bar (coupling height) h10 525 mm 4.19 Overall length 11 2776 mm 4.20 Length to face of forks 12 1856 mm 4.21 Overall width b1 1086 mm 4.21 Fork carniage ISO 2328 (class/form) A/B e/I 35 mm x 100 mm 4.22 Fork carniage ISO 2328 (class/form) A/B b3 1000 mm 4.23 Fork carniage Width m1 100 mm 4.31 Ground clearance below mast m1 100 mm 4.32 Ground clearance at centre of wheelbase m2 110 mm 4.33 A kisle Width for pallets 1000 x 1200 crossways Ast 3156 mm 4.34 A kisle width for pallets 1000 x 1200 crossways Ast 3280 mm 4.35 Turning radius Wa 1470 mm 5.1 Tavel speed (laden / unladen) Wa 1470 mm 5.2 Lifting speed (laden / unladen) 0.45 m/s -0.46 m/s -0.44 m/s 5.7	4.7		h6	2147 mm
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5.10 Service brake Hydraulic Engine Companies 6.1 Drive motor rating \$2.60 min 2.50 kW 6.2 Lift motor rating at \$3.15% 11 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%) 185 kg				
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6.4 Battery voltage / capacity 76.80 V / 230 Ah 6.5 Battery weight (+/- 5%) 185 kg				
6.5 Battery weight (+/- 5%) 185 kg				
6.6 Energy consumption according to VDI cycle (kWh/h) 3.80 kWh/h				
	6.6			3.80 kWh/h
Miscellaneous				
8.2 Working hydraulic pressure for attachments 185 bar		· · · · ·		
8.3 Oil flow rate for attachments 30 I/min				
8.4 Sound level at the driver's ear according to DIN 12 053 70 dB	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





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