

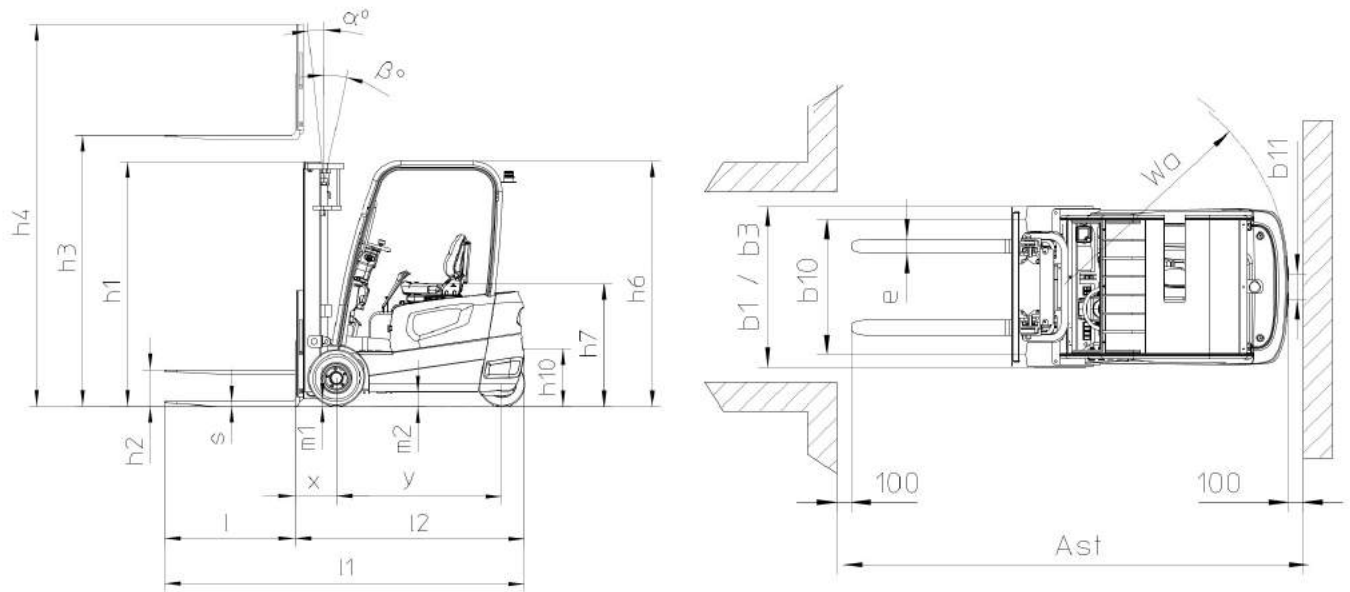
Technical sheet

ME 316

Masted Forklift Trucks



Technical characteristics		Metric
1.1	Manufacturer	Manitou
1.2	Model	ME 316
1.3	Type of traction	Electric
1.4	Type of operation	Seated
1.5	Q - Rated capacity	1600 kg
1.6	c - Center of gravity of load	500 mm
1.8	x - Distance from the load bearing surface to the centre of the front axle	360 mm
1.9	y - Wheelbase	1360 mm
Weight		
2.1	Weight of truck in working order	3120 kg
2.2	Laden weight on front/rear axle	4100 kg / 620 kg
2.3	Unladen weight on front/rear axle	1440 kg / 1680 kg
Wheels		
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Solid cushion
3.5	Number of front wheels (x)	2x / 1
3.6	b10 - Front track	0.91 mm
3.7	b11 - Rear track	0.18 mm
Dimensions		
4.1	α / β - Front/Rear mast angle	5.50 ° / 6.50 °
4.2	h1 - Height (mast lowered)	2000 mm
4.3	h2 - Free lift	145 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	3570 mm
4.7	h6 - Height of driver protection (cab)	2040 mm
4.8	h7 - Height of seat	1000 mm
4.12	h10 - Height of towing coupling	500 mm
4.19	l1 - Total length	2970 mm
4.20	l2 - Length to fork heel	1900 mm
4.21	b1 - Overall width - Single/twinned wheels	1090 mm / -
4.22	e / s / l - Fork dimensions	1150 x 100 x 35
4.23	Fork carriage to DIN 15173 A/B	FEM2A
4.24	b3 - Width of fork clamp	1000 mm
4.31	m1 - Ground clearance under mast	100 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	3240 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	3360 mm
4.35	Wa - Turning radius	1560 mm
Performances		
5.1	Speed of travel laden / unladen	16 km/h / 16 km/h
5.2	Lifting speed laden / unladen	0.40 m/s / 0.47 m/s
5.3	Lowering speed laden / unladen	0.46 m/s / 0.44 m/s
5.5	Nominal pulling force laden / unladen	750 daN / 772 daN
5.7	Maximum ramp laden / unladen	- / 18 %
5.10	Service brake	Oil-Immersed Multi-Discs on Front & Rear Axles
Engine		
6.2	Lift motor power	8.60 kW
6.3	Size of battery tray as per DIN 43531/35/36, A, B, C, no	DIN43531 A
6.4	Battery voltage/capacity	48 V / 575 Ah
Miscellaneous		
8.1	Type of drive unit	Electronic
8.2	Working hydraulic pressure for attachments	180 bar
8.3	Oil flow rate for attachments	35 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator	70 dB(A)



Characteristics of masts and residual capacities

Duplex Total Visibility		FVD27	FVD30	FVD33	FVD36	FVD40	FVD43	FVD45
Lift height	mm	2700	3000	3300	3600	4000	4300	4500
Height (mast lowered)	mm	1850	1995	2150	2300	2550	2710	2820
Free lift	mm	145	145	145	145	145	145	145
Height of extended mast	mm	3270	3570	3870	4170	4570	4870	5070
Residual Capacity without attachment (Industrial load chart)	kg	1600	1600	1600	1600	1600	1600	1500
Residual Capacity with integrated side shift (Industrial load chart)	kg	1600	1600	1600	1600	1600	1600	1500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	1600	1600	1600	1600	1550	1500	1400
Forward/backward mast tilt angle	°	5 / 6	5 / 6	5 / 6	5 / 6	3 / 5	3 / 5	3 / 5

Duplex Free Lift		FLD27	FLD30	FLD33	FLD36	FLD40
Lift height	mm	2700	3000	3300	3600	4000
Height (mast lowered)	mm	1850	1995	2150	2300	2550
Free lift	mm	1260	1410	1560	1710	1950
Height of extended mast	mm	3300	3600	3900	4200	4600
Residual Capacity without attachment (Industrial load chart)	kg	1600	1600	1600	1600	1600
Residual Capacity with integrated side shift (Industrial load chart)	kg	1600	1600	1600	1600	1600
Residual capacity with hooked-on side shift (Industrial load chart)	kg	1600	1600	1600	1600	1550
Forward/backward mast tilt angle	°	5 / 6	5 / 6	5 / 6	5 / 6	3 / 5



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