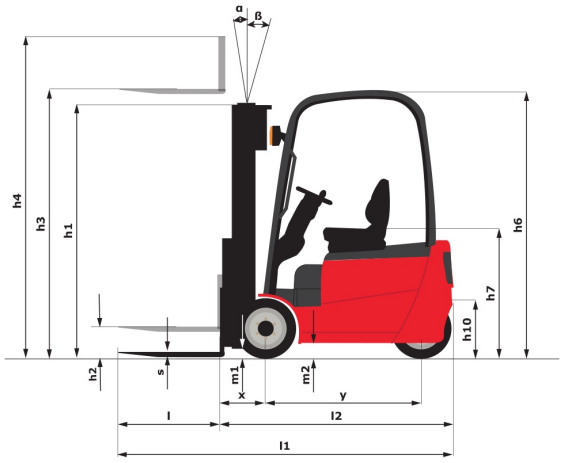
Technical sheet :

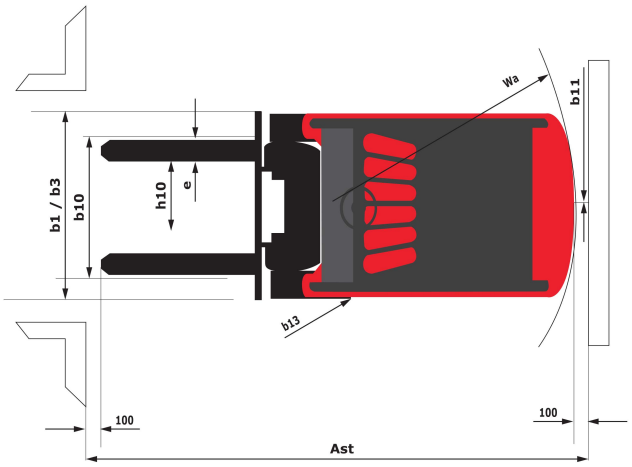
ME 316

MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 316
1.3	Power source		Electric
1.4	Operator type		Seated
1.5	Max. capacity	Q	1600 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	355 mm
1.9	Wheelbase	y	1358 mm
	Weight		
2.1	Service weight		3120 kg
2.2	Weight on front axle (laden) / rear axle (laden)		4100 kg / 620 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1440 kg / 1680 kg
	Wheels		
3.1	Tyres type		PPS
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	910 mm
3.7	Rear wheel gauge	b11	175 mm
	Dimensions		
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	5.5 / 6.5
4.7	Height of overhead guard (cabin)	h6	2040 mm
4.8	Seat height/stand height	h7	1000 mm
4.12	Height of towing bar (coupling height)	h10	500 mm
4.19	Overall length	l1	2968 mm
4.20	Length to face of forks	l2	1898 mm
4.21	Overall width	b1	1086 mm
4.22	Forks section / width / length	s / e / l	35 mm x 100 mm / 1070 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		FEM 2A
4.24	Fork carriage width	b3	1000 mm
4.31	Ground clearance below mast	m1	100 mm
4.32	Ground clearance at centre of wheelbase	m2	110 m
4.33	Aisle Width for pallets 1000 x 1200 crossways	Ast	3237 mm
4.35	Turning radius	Wa	1555 mm
	Performances		
5.1	Travel speed (laden / unladen)		16 km/h / 18 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	Drawbar pull (Laden / Unladen)		750 daN / 772 daN
5.7	Gradeability (laden / unladen)		16 % / 18 %
5.10	Service brake		Oil bath
	Engine		
6.1	Number of drive motor / Drive motor rating S2 60 min		2 / 9.50 kW
6.2	Lift motor rating at S3 15%		8.60 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 A
6.4	Battery / Batteries capacity		48 V / 575 Ah
6.6	Energy consumption		4.30 kW/h
	Miscellaneous		
8.1	Type of drive control		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)

Dimensional drawing





Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 27	FVD 30	FVD 33	FVD 36	FVD 40	FVD 43	FVD 45
h2 - Free lift	mm	145	145	145	145	145	145	145
h1 - Height mast lowered *	mm	1845	1995	2145	2295	2545	2710	2820
h3 - Lifting Height	mm	2700	3000	3300	3600	4000	4300	4500
h4 - Height mast extended *	mm	3265	3565	3865	4165	4565	4865	5065
α / β - Mast inclination (front / rear)	°	5.50 / 6	5.50 / 6	5.50 / 6	5.50 / 6	3.50 / 5	3.50 / 5	3.50 / 5
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
Height at max capacity	mm	2700	3000	3300	3600	4000	4300	4500
Height at max capacity with integrated sideshift	mm	2700	3000	3300	3600	4000	4300	4500

Free Lift Duplex		FLD 27	FLD 30	FLD 33	FLD 36	FLD 40
h2 - Free lift	mm	1260	1410	1560	1710	1960
h1 - Height mast lowered *	mm	1845	1995	2145	2295	2545
h3 - Lifting Height	mm	2700	3000	3300	3600	4000
h4 - Height mast extended *	mm	3295	3595	3895	4195	4595
α / β - Mast inclination (front / rear)	°	5.50 / 6	5.50 / 6	5.50 / 6	5.50 / 6	3.50 / 5
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
Height at max capacity	mm	2700	3000	3300	3600	4000
Height at max capacity with integrated sideshift	mm	2700	3000	3300	3600	4000

Free Lift Triplex		FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
h2 - Free lift	mm	1325	1425	1490	1590	1655	1825	2010	2010
h1 - Height mast lowered *	mm	1910	2010	2075	2175	2240	2410	2625	2840
h3 - Lifting Height	mm	4000	4300	4500	4800	5000	5500	6000	6500
h4 - Height mast extended *	mm	4595	4895	5095	5395	5595	6095	6625	7170
α / β - Mast inclination (front / rear)	°	3.50 / 5	3.50 / 5	3.50 / 5	3.50 / 5	3.50 / 5	3.50 / 5	3.50 / 5	3.50 / 5
Residual capacity without attachment (Industrial load chart)	kg	1600	1550	1500	1450	1400	1250	1100	900
Residual capacity with integrated side shift (Industrial load chart)	kg	1600	1550	1500	1450	1400	1250	1100	900
Residual capacity with hooked-on side shift (Industrial load chart)	kg	1500	1450	1400	1350	1300	1150	1000	800
Height at max capacity	mm	4000	4000	4000	4000	4000	4000	4000	
Height at max capacity with integrated sideshift	mm	4000	4000	4000	4000	4000	4000	4000	

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