

Technical sheet :

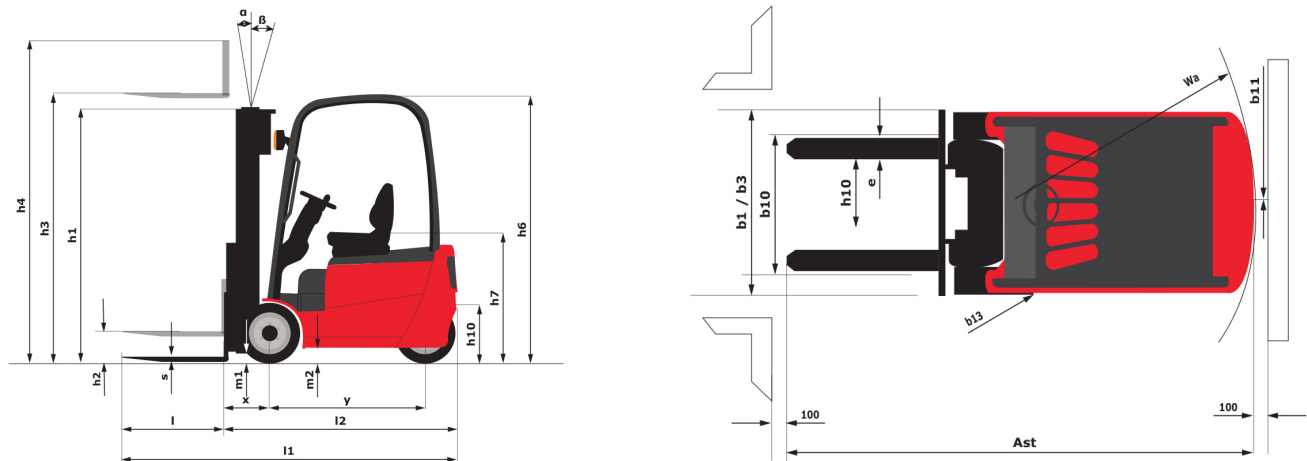
ME 450



Technical characteristics			Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 450
1.3	Power source		Electric
1.4	Operator type		Seated
1.5	Max. capacity	Q	5000 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	500 mm
1.9	Wheelbase	y	2000 mm
Weight			
2.1	Service Weight		71000 kg
2.2	Weight on front axle (laden) / rear axle (laden)		10635 kg / 1465 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3625 kg / 3475 kg
Wheels			
3.1	Tyres type		Super Elastic
3.2	Dimensions of front wheels		250/15
3.3	Dimensions of rear wheels		7.00-12
3.5	Number of front wheels / rear wheels		2 / 2
3.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1130 mm
3.7	Rear wheel	b11	1100 mm
Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	6 / 12
4.7	Height of overhead guard (cabin)	h6	2300 mm
4.7	Overall height of standard overhead guard	h6	2300 mm
4.8	Seat height/stand height	h7	1235 mm
4.12	Height of towing bar (coupling height)	h10	460 mm
4.19	Overall length	l1	4165 mm
4.20	Length to face of forks	l2	3015 mm
4.21	Overall width	b1	1380 mm
4.22	Forks section / width / length	s / e / l	150 mm x 1150 mm x 50 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1100 mm
4.31	Ground clearance below mast	m1	110 mm
4.32	Ground clearance at centre of wheelbase	m2	219 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4470 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4715 mm
4.35	Turning radius	Wa	2720 mm
4.36	Internal turning radius (over tyres)	b13	805 mm
Performances			
5.1	Travel speed (laden / unladen)		13 km/h / 13.5 km/h
5.2	Lifting speed (laden / unladen)		0.26 Nm / 0.4 Nm
5.3	Lowering speed (laden / unladen)		0.5 Nm / 0.3 Nm
5.5	Drawbar pull (Laden)		2700 daN
5.7	Gradeability - laden / unladen (%)		15 % / 16

	Performances		
5.10	Service brake		Hydraulic
	Engine		
6.1	Drive motor rating S2 60 min		16.6 kW
6.2	Lift motor rating at S3 15%		25.4 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43536 A
6.4	Battery / Batteries capacity		80 V / 700 A
7.5	Fuel consumption according to VDI cycle		15.3
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments (bar)		210 Bar
8.3	Oil flow rate for attachments (l/min)		65
8.4	Measured/guaranteed mean noise level at the ear of the operator		78

Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 30	FVD 33	FVD 35	FVD 40	FVD 43	FVD 45	FVD 48	FVD 50
h2 - Free lift	mm	150	150	150	150	150	150	150	150
h1 - Height mast Lowered	mm	2185	2335	2435	2735	2900	3010	3175	3285
h3 - Lifting Height	mm	3000	3300	3500	4000	4300	4500	4800	5000
h4 - Height mast extended	mm	3770	4070	4270	4770	5070	5270	5570	5770
α / β - Mast inclination (front / rear)	---	6 / 12	6 / 12	6 / 12	6 / 12	6 / 6	6 / 6	6 / 6	6 / 6
Residual Capacity without attachment (Industrial load chart)	kg	5000	5000	5000	5000	4950	4900	4800	4700
Residual Capacity with integrated side shift (Industrial load chart)	kg	5000	5000	5000	5000	4900	4850	4750	4650
Residual capacity with hooked-on side shift (Industrial load chart)	kg	5000	5000	5000	5000	4950	4900	4800	4700
Height at max capacity	mm	3000	3300	3500	4000	4000	4000	4000	4000
Height at max capacity with integrated sideshift	mm	3000	3300	3500	4000	4000	4000	4000	4000

Free Lift Duplex		FLD 30	FLD 33	FLD 40
h2 - Free lift	mm	1365	1515	1865
h1 - Height mast Lowered	mm	2166	2316	2666
h3 - Lifting Height	mm	3000	3300	4000
h4 - Height mast extended	mm	3805	4105	4805
α / β - Mast inclination (front / rear)	---	6 / 12	6 / 12	6 / 12
Residual Capacity without attachment (Industrial load chart)	kg	5000	5000	5000
Residual Capacity with integrated side shift (Industrial load chart)	kg	5000	5000	5000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	5000	5000	5000
Height at max capacity	mm	3000	3300	4000
Height at max capacity with integrated sideshift	mm	3000	3300	4000

Free Lift Triplex		FLT 40	FLT 43	FLT 48	FLT 50	FLT 55	FLT 60
h2 - Free lift	mm	1218	1318	1478	1548	1710	1928
h1 - Height mast Lowered	mm	2020	2120	2280	2350	2515	2730
h3 - Lifting Height	mm	4000	4300	4800	5000	5500	6000
h4 - Height mast extended	mm	4805	5105	5605	5805	6305	6805
α / β - Mast inclination (front / rear)	---	6 / 12	6 / 6	6 / 6	6 / 6	3 / 6	3 / 6

Free Lift Triplex		FLT 40	FLT 43	FLT 48	FLT 50	FLT 55	FLT 60
Residual Capacity without attachment (Industrial load chart)	kg	4800	4800	4650	4450	4250	4100
Residual Capacity with integrated side shift (Industrial load chart)	kg	4800	4700	4600	4400	4200	4050
Residual capacity with hooked-on side shift (Industrial load chart)	kg	4800	4800	4650	4450	4250	4100



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