

Technical sheet :

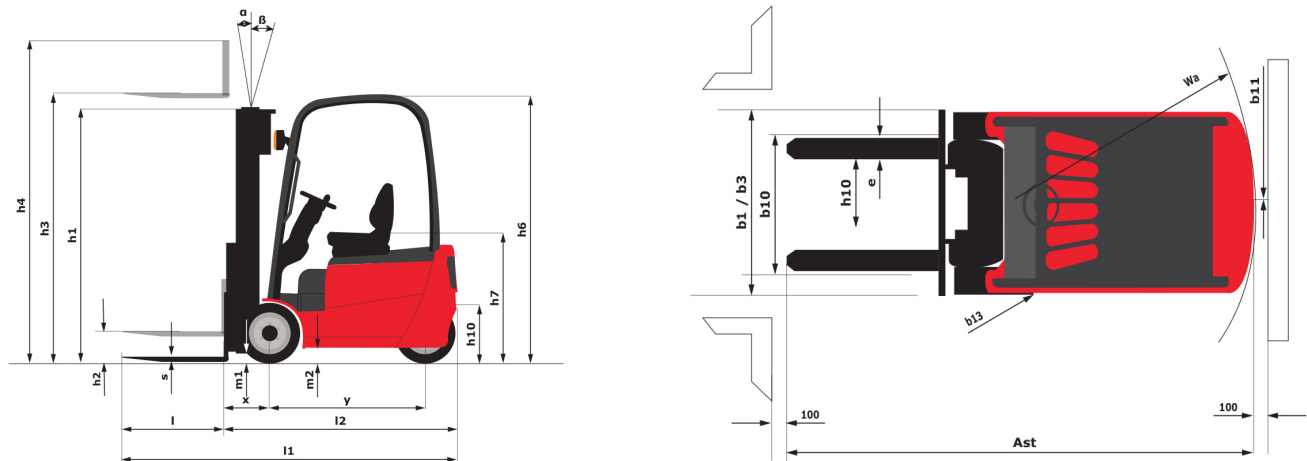
ME 420



Technical characteristics			Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 420
1.3	Power source		Electric
1.4	Operator type		Seated
1.5	Max. capacity	Q	2000 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	455 mm
1.9	Wheelbase	y	1485 mm
Weight			
2.1	Service Weight		4000 kg
2.2	Weight on front axle (laden) / rear axle (laden)		5360 kg / 640 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1910 kg / 2090 kg
Wheels			
3.1	Tyres type		Super Elastic
3.2	Dimensions of front wheels		23 x 9-10
3.3	Dimensions of rear wheels		18 x 7-8
3.5	Number of front wheels / rear wheels		2 / 2
3.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1058 mm
3.7	Rear wheel	b11	960 mm
Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	5 / 10
4.7	Height of overhead guard (cabin)	h6	2155 mm
4.7	Overall height of standard overhead guard	h6	2155 mm
4.8	Seat height/stand height	h7	1070 mm
4.12	Height of towing bar (coupling height)	h10	303 mm
4.19	Overall length	l1	3492 mm
4.20	Length to face of forks	l2	2342 mm
4.21	Overall width	b1	1265 mm
4.22	Forks section / width / length	s / e / l	122 mm x 1150 mm x 40 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1038 mm
4.31	Ground clearance below mast	m1	112 mm
4.32	Ground clearance at centre of wheelbase	m2	120 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	3745 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3993 mm
4.35	Turning radius	Wa	2090 mm
4.36	Internal turning radius (over tyres)	b13	730 mm
Performances			
5.1	Travel speed (laden / unladen)		14 km/h / 14 km/h
5.2	Lifting speed (laden / unladen)		0.28 Nm / 0.4 Nm
5.3	Lowering speed (laden / unladen)		0.42 Nm / 0.29 Nm
5.5	Drawbar pull (Laden / Unladen)		1400 daN / 1250
5.7	Gradeability - laden / unladen (%)		11 % / 12

	Performances		
5.10	Service brake		Hydraulic
	Engine		
6.1	Drive motor rating S2 60 min		11 kW
6.2	Lift motor rating at S3 15%		8.6 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43531 B
6.4	Battery / Batteries capacity		48 V / 700 A
7.5	Fuel consumption according to VDI cycle		5
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments (bar)		175 Bar
8.3	Oil flow rate for attachments (l/min)		35
8.4	Measured/guaranteed mean noise level at the ear of the operator		71

Dimensional drawing



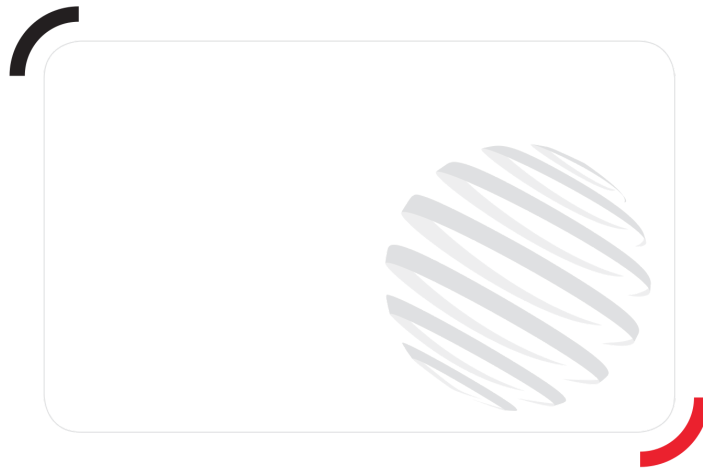
Characteristics of masts and residual capacities

Full Visibility Duplex		FVD 27	FVD 30	FVD 33	FVD 36	FVD 40	FVD 43	FVD 45
h2 - Free lift	mm	140	140	140	140	140	140	140
h1 - Height mast Lowered	mm	1855	2005	2170	2305	2555	2730	2830
h3 - Lifting Height	mm	2700	3000	3300	3600	4000	4300	4500
h4 - Height mast extended	mm	3350	3650	3980	4250	4650	4970	5150
α / β - Mast inclination (front / rear)	---	5 / 6	5 / 10	5 / 10	5 / 10	5 / 10	5 / 6	5 / 6
Residual Capacity without attachment (Industrial load chart)	kg	2000	2000	2000	2000	2000	2000	2000
Residual Capacity with integrated side shift (Industrial load chart)	kg	2000	2000	2000	2000	2000	2000	2000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2000	2000	2000	2000	2000	2000	2000
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	1250	1350	1500	1650	1900
h1 - Height mast Lowered	mm	1866	1980	2130	2280	2530
h3 - Lifting Height	mm	2700	3000	3300	3600	4000
h4 - Height mast extended	mm	3370	3635	3970	4270	4635
α / β - Mast inclination (front / rear)	---	5 / 6	5 / 10	5 / 10	5 / 10	5 / 10
Residual Capacity without attachment (Industrial load chart)	kg	2000	2000	2000	2000	2000
Residual Capacity with integrated side shift (Industrial load chart)	kg	2000	2000	2000	2000	2000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2000	2000	2000	2000	2000
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	1255	1355	1425	1525	1590	1755	1975	2150
h1 - Height mast Lowered	mm	1925	2025	2095	2195	2260	2425	2645	2820
h3 - Lifting Height	mm	4000	4300	4500	4800	5000	5500	6000	6500
h4 - Height mast extended	mm	4680	4980	5230	5480	5680	6180	6690	7180
α / β - Mast inclination (front / rear)	---	5 / 6	5 / 6	5 / 6	5 / 6	5 / 6	3 / 6	3 / 6	3 / 6

Free Lift Triplex		FLT 40	FLT 43	FLT 45	FLT 48	FLT 50	FLT 55	FLT 60	FLT 65
Residual Capacity without attachment (Industrial load chart)	kg	2000	2000	2000	1950	1850	1800	1650	1550
Residual Capacity with integrated side shift (Industrial load chart)	kg	2000	2000	1950	1900	1800	1750	1600	1500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2000	2000	2000	1950	1850	1800	1650	1550
Height at max capacity	mm	4000	4300	4500	4000	4000	4000	4000	4000
Height at max capacity with integrated sideshift	mm	4000	4300	4500	4000	4000	4000	4000	4000



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