

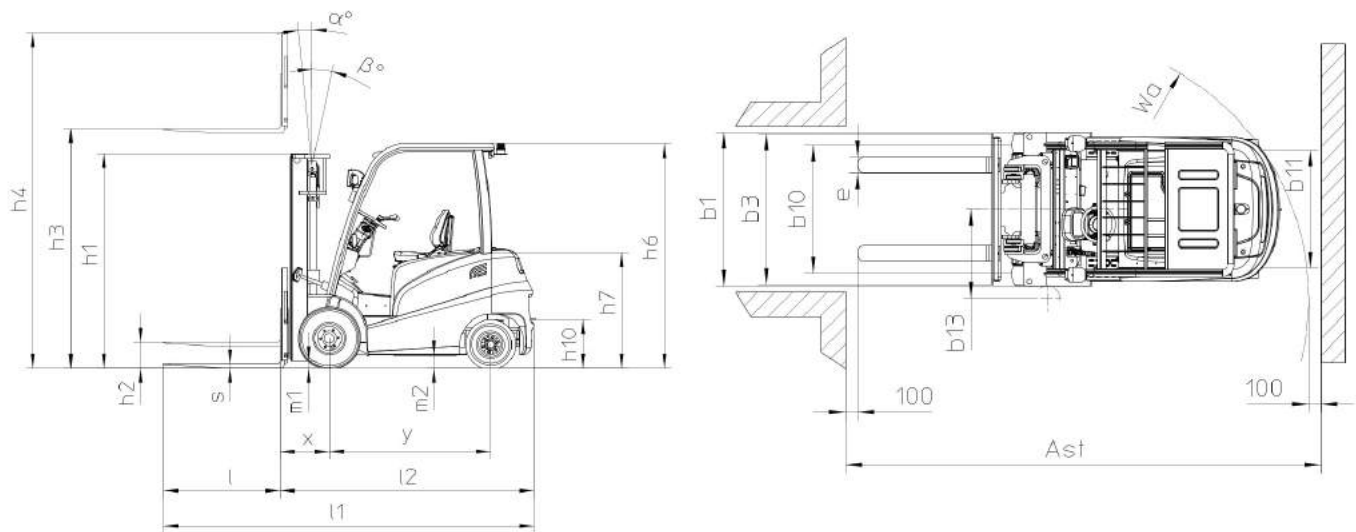
Technical sheet

ME 425C

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	ME 425C
1.3	Type of traction	Electric
1.4	Type of operation	Seated
1.5	Q - Rated capacity	2500 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	455 mm
1.9	y - Wheelbase	1490 mm
	Weight	
2.1	Weight of truck in working order	4300 kg
2.2	Laden weight on front/rear axle	6060 kg / 740 kg
2.3	Unladen weight on front/rear axle	1960 kg / 2340 kg
	Wheels	
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Solid cushion
3.5	Number of front wheels (x)	4 / 4
	Dimensions	
4.1	α / β - Front/Rear mast angle	5 ° / 10 °
4.2	h1 - Height (mast lowered)	2000 mm
4.3	h2 - Free lift	140 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	3650 mm
4.7	h6 - Height of driver protection (cab)	2160 mm
4.8	h7 - Height of seat	1070 mm
4.12	h10 - Height of towing coupling	300 mm
4.19	l1 - Total length	3490 mm
4.20	l2 - Length to fork heel	2340 mm
4.21	b1 - Overall width - Singe/twinned wheels	1270 mm / -
4.23	Fork carriage to DIN 15173 A/B	FEM2A
4.24	b3 - Width of fork clamp	1040 mm
4.31	m1 - Ground clearance under mast	110 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	3750 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	3950 mm
4.35	Wa - Turning radius	2090 mm
4.36	b13 - Inner turning radius	730 mm
	Performances	
5.1	Speed of travel laden / unladen	14 km/h / 14 km/h
5.2	Lifting speed laden / unladen	0.23 m/s / 0.43 m/s
5.3	Lowering speed laden / unladen	0.41 m/s / 0.22 m/s
5.5	Nominal pulling force laden / unladen	1800 daN / 1700 daN
5.7	Maximum ramp laden / unladen	- / 12 %
5.10	Service brake	Hydraulic
	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 / 700 Ah
	Miscellaneous	
8.3	Oil flow rate for attachments	35 l/min



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	1860	2000	2170	2310	2560	2730	2830
Free lift	mm	140	140	140	140	140	140	140
Height of extended mast	mm	3350	3650	3980	425000	4650	4970	5150
Residual Capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500	2450
Residual Capacity with integrated side shift (Industrial load chart)	kg	2500	2500	2500	2500	2500	2450	2400
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2500	2500	2500	2450	2400	2350	2300
Forward/backward mast tilt angle	°	5 / 6	5 / 10	5 / 10	5 / 10	5 / 10	5 / 6	5 / 6

Duplex Free Lift		FLD27	FLD30	FLD33	FLD36	FLD40
Lift height	mm	2700	3000	3300	3600	4000
Height (mast lowered)	mm	1870	1980	2130	2280	2530
Free lift	mm	1250	1350	1500	1650	1900
Height of extended mast	mm	3370	3640	3970	4270	4640
Residual Capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500
Residual Capacity with integrated side shift (Industrial load chart)	kg	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2500	2500	2500	2450	2400
Forward/backward mast tilt angle	°	5 / 6	5 / 10	5 / 10	5 / 10	5 / 10

Triplex Free Lift		FLT40	FLT43	FLT45	FLT48	FLT50	FLT55	FLT60	FLT65
Lift height	mm	4000	4300	4500	4800	5000	5500	6000	6500
Height (mast lowered)	mm	1930	2030	2100	2200	2260	2430	2650	2820
Free lift	mm	1260	1360	1430	1530	1590	1760	1980	2150
Height of extended mast	mm	4680	4980	5230	5480	5680	6180	6690	7180
Residual Capacity without attachment (Industrial load chart)	kg	2500	2450	2350	2250	2150	2050	1650	1350
Residual Capacity with integrated side shift (Industrial load chart)	kg	2450	2450	2300	2200	2100	2000	1600	1300
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2350	2300	2250	2100	2050	1900	1500	1200
Forward/backward mast tilt angle	°	5 / 6	5 / 6	5 / 6	5 / 6	5 / 6	3 / 6	3 / 6	3 / 6



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