

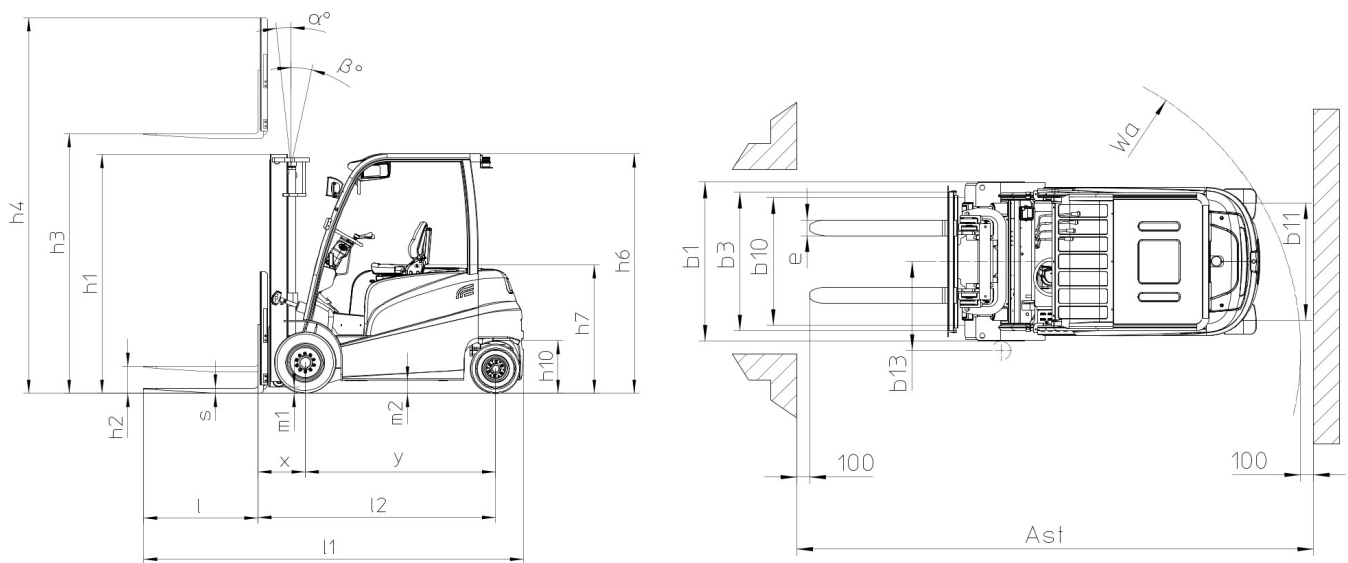
Technical sheet

ME 425

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	ME 425
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	435 mm
1.9	y - Wheelbase	1750 mm
	Weight	
2.1	Weight of truck in working order	5100 kg
2.2	Laden weight on front/rear axle	6620 kg / 980 kg
2.3	Unladen weight on front/rear axle	2500 kg / 2600 kg
	Wheels	
3.1	Tyre equipment: bandage (V), PPS (SE), inflatable tyre (L)	Solid cushion
3.5	Number of front wheels (x)	2x / 2
3.6	b10 - Front track	1.07 mm
3.7	b11 - Rear track	0.96 mm
	Dimensions	
4.1	α / β - Front/Rear mast angle	5 ° / 8 °
4.2	h1 - Height (mast lowered)	2090 mm
4.3	h2 - Free lift	140 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	3640 mm
4.7	h6 - Height of driver protection (cab)	2240 mm
4.8	h7 - Height of seat	1190 mm
4.12	h10 - Height of towing coupling	630 mm
4.19	l1 - Total length	3640 mm
4.20	l2 - Length to fork heel	2490 mm
4.21	b1 - Overall width - Singe/twinned wheels	1280 mm / -
4.22	e / s / l - Fork dimensions	1150 x 122 x 40
4.23	Fork carriage to DIN 15173 A/B	FEM2A
4.24	b3 - Width of fork clamp	1100 mm
4.31	m1 - Ground clearance under mast	115 mm
4.33	Ast - Aisle width for 1000 x 1200 pallet widthwise	4040 mm
4.34	Ast - Aisle width for 800 x 1200 pallet lengthwise	4240 mm
4.35	Wa - Turning radius	2400 mm
4.36	b13 - Inner turning radius	730 mm
	Performances	
5.1	Speed of travel laden / unladen	19 km/h / 20 km/h
5.2	Lifting speed laden / unladen	0.46 m/s / 0.62 m/s
5.3	Lowering speed laden / unladen	0.47 m/s / 0.42 m/s
5.5	Nominal pulling force laden / unladen	1740 daN / 1640 daN
5.7	Maximum ramp laden / unladen	- / 21 %
5.10	Service brake	Oil-Immersed Multi-Discs on Front & Rear Axles
	Engine	
6.1	Drive motor power rating	18.50 kW
6.2	Lift motor power	25.40 kW
6.3	Size of battery tray as per DIN 43531/35/36, A, B, C, no	DIN43536 A
6.4	Battery voltage/capacity	80 V / 700 Ah
	Miscellaneous	
8.1	Type of drive unit	Electronic
8.3	Oil flow rate for attachments	65 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator	71 dB(A)



Characteristics of masts and residual capacities

Duplex Total Visibility		FVD30	FVD33	FVD35	FVD40	FVD43	FVD45	FVD37	FVD48	FVD50
Lift height	mm	3000	3300	3500	4000	4300	4500	3700	4800	5000
Height (mast lowered)	mm	2090	2240	2340	2690	2840	2940	2440	3090	3190
Free lift	mm	140	140	140	140	140	140	140	140	140
Height of extended mast	mm	3640	3940	4140	4640	4940	5140	4240	5400	5600
Residual Capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500	2500	2500	2500
Residual Capacity with integrated side shift (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500	2500	2500	2500
Forward/backward mast tilt angle	°	5 / 8	5 / 8	5 / 8	5 / 8	5 / 5	5 / 5	5 / 8	5 / 5	5 / 5

Duplex Free Lift		FLD30	FLD33	FLD37	FLD40
Lift height	mm	3000	3300	3700	4000
Height (mast lowered)	mm	2040	2190	2390	2590
Free lift	mm	1370	1520	1720	1920
Height of extended mast	mm	3670	3970	4370	4670
Residual Capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500
Residual Capacity with integrated side shift (Industrial load chart)	kg	2500	2500	2500	2500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2500	2500	2500	2500
Forward/backward mast tilt angle	°	5 / 8	5 / 8	5 / 8	5 / 8

Triplex Free Lift		FLD40	FLT43	FLT48	FLT50	FLT55	FLT60
Lift height	mm	4000	4300	4800	5000	5500	6000
Height (mast lowered)	mm	2040	2140	2290	2390	2590	2850
Free lift	mm	1370	1470	1620	1720	1920	2170
Height of extended mast	mm	4670	4980	5470	5670	6170	6670
Residual Capacity without attachment (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500
Residual Capacity with integrated side shift (Industrial load chart)	kg	2500	2500	2500	2500	2500	2500
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2500	2500	2500	2500	2450	2400
Forward/backward mast tilt angle	°	5 / 5	5 / 6	5 / 5	5 / 5	3 / 5	5 / 5



Siège Social
430 rue de l'Aubinière - 44150 Ancenis Cedex - France
Tel: +33(0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97
www.manitou.com



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