

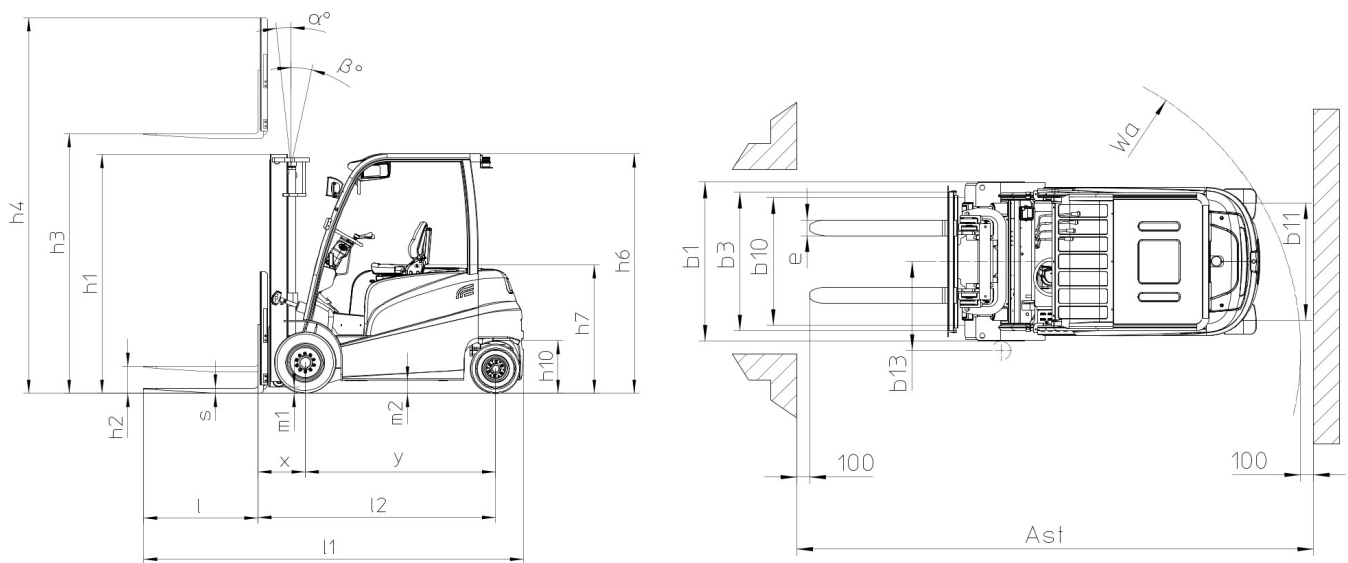
Technical sheet

# **ME 430**

Masted Forklift Trucks



	Technical characteristics	Metric
1.1	Manufacturer	Manitou
1.2	Model	ME 430
1.3	Type of traction	Electric
1.4	Type of operation	Seated
1.5	Q - Rated capacity	3000 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	440 mm
1.9	y - Wheelbase	1750 mm
	Weight	
2.1	Weight of truck in working order	5250 kg
2.2	Laden weight on front/rear axle	7340 kg / 2572 kg
2.3	Unladen weight on front/rear axle	910 kg / 2578 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	$\alpha$ / $\beta$ - Front/Rear mast angle	5 ° / 8 °
4.2	h1 - Height (mast lowered)	2240 mm
4.3	h2 - Free lift	140 mm
4.4	h3 - Lift height (Duplex mast)	3000 mm
4.5	h4 - Height of extended mast	3840 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 50
4.23	Fork carriage to DIN 15173 A/B	FEM3A
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	0.42 m/s / 0.54 m/s
5.3	Lowering speed laden / unladen	0.45 m/s / 0.42 m/s
5.5	Nominal pulling force laden / unladen	1720 daN / 1680 daN
5.7	Maximum ramp laden / unladen	- / 20 %
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	72 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	2240	2390	2490	2840	2990	3090	2540	3240	3340
Free lift	mm	145	145	145	145	145	145	145	145	145
Height of extended mast	mm	384000	4140	4340	4840	5140	5340	4440	5640	5840
Residual Capacity without attachment (Industrial load chart)	kg	3000	3000	3000	3000	3000	3000	3000	3000	3000
Residual Capacity with integrated side shift (Industrial load chart)	kg	3000	3000	3000	3000	3000	3000	3000	3000	3000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	3000	3000	3000	3000	3000	2950	3000	2900	2800
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	2140	2290	2490	2690
Free lift	mm	1280	1430	1630	1830
Height of extended mast	mm	3860	4160	4560	4860
Residual Capacity without attachment (Industrial load chart)	kg	3000	3000	3000	3000
Residual Capacity with integrated side shift (Industrial load chart)	kg	3000	3000	3000	3000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	3000	3000	3000	3000
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	2840
Free lift	mm	1250	1350	1500	1600	1800	2050
Height of extended mast	mm	4790	5090	5590	5790	6290	6790
Residual Capacity without attachment (Industrial load chart)	kg	3000	3000	3000	3000	2900	2700
Residual Capacity with integrated side shift (Industrial load chart)	kg	3000	3000	3000	2900	2800	2650
Residual capacity with hooked-on side shift (Industrial load chart)	kg	2900	2900	2850	2750	2550	2450
Forward/backward mast tilt angle	°	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5	5 / 5



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