

Technical sheet :

ME 430



Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		ME 430	ME 430
1.3	Power source		Electric	Electric
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	3000 kg	6614 lbs
1.6	Load centre of gravity	c	500 mm	19.685 in
1.8	Load distance, centre of drive axle to fork	x	445 mm	17.52 in
1.9	Wheelbase	y	1750 mm	68.898 in
Weight				
2.1	Service Weight		5250 kg	11574 lbs
2.2	Weight on front axle (laden) / rear axle (laden)		7340 kg / 980 kg	16182 lbs / 2161 lbs
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2572 kg / 2578 kg	5670 lbs / 5684 lbs
Wheels				
3.1	Tyres type		PPS	PPS
3.2	Dimensions of front wheels		23 x 9-10	23 x 9-10
3.3	Dimensions of rear wheels		18 x 7-8	18 x 7-8
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1073 mm	42.244 in
3.7	Rear wheel gauge	b11	960 mm	37.795 in
Dimensions				
4.1	Tilt of Mast Forward (deg) / Backward (deg)	α / β	5 / 8	5 / 8
4.7	Height of overhead guard (cabin)	h6	2240 mm	88.189 in
4.8	Seat height/stand height	h7	1190 mm	46.85 in
4.12	Height of towing bar (coupling height)	h10	625 mm	24.606 in
4.19	Overall length	l1	3645 mm	143.504 in
4.20	Length to face of forks	l2	2495 mm	98.228 in
4.21	Overall width	b1	1275 mm	50.197 in
4.22	Forks section / width / length	s / e / l	45 mm x 122 mm / 1150 mm	1.772 in x 4.803 in / 45.276 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A	3A
4.24	Fork carriage width	b3	1100 mm	43.307 in
4.31	Ground clearance below mast	m1	105 mm	4.134 in
4.32	Ground clearance at centre of wheelbase	m2	115 mm	4.528 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4045 mm	159.252 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4245 mm	167.126 in
4.35	Turning radius	Wa	2400 mm	94.488 in
4.36	Internal turning radius (over tyres)	b13	730 mm	28.74 in
Performances				
5.1	Travel speed (laden / unladen)		19 km/h / 20 km/h	11.8 mph / 12.4 mph
5.2	Lifting speed (laden / unladen)		0.42 m/s / 0.54 m/s	1.38 ft/s / 1.77 ft/s
5.3	Lowering speed (laden / unladen)		0.47 m/s / 0.42 m/s	1.54 ft/s / 1.38 ft/s
5.5	Drawbar pull (Laden / Unladen)		1740 daN / 1680 daN	1740 daN / 1680 daN
5.7	Gradeability - laden / unladen		14 % / 20 %	14 % / 20 %
5.9	Service brake		Oil bath	Oil bath

Engine				
6.1	Drive motor rating S2 60 min		2 x 18.5 kW	2 x 18.5 kW
6.2	Lift motor rating at S3 15%		25.4 kW	25.4 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43536 A	DIN43536 A
6.4	Battery / Batteries capacity		80 V / 700 Ah	80 V / 700 Ah
6.6	Energy consumption		11.5 kW/h	11.5 kW/h
	Fuel consumption according to VDI cycle		11.5 l/h	11.5 l/h
Miscellaneous				
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		210 Bar	14 PSI
8.3	Oil flow rate for attachments		65 l/min	65 l/min
8.4	Measured/guaranteed mean noise level at the ear of the operator		< 72 dB(A)	< 72 dB(A)

Free Lift Triplex		FLT 40	FLT 43	FLT 48	FLT 50	FLT 55	FLT 60
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
Height at max capacity	mm	4000	4300	4800	5000	4000	4000
Height at max capacity with integrated sideshift	mm	4000	4300	4800	4000	4000	4000



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