

Technical sheet :

# **ME 435**

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Technical characteristics			Metric
1.1	Manufacturer		Manitou
1.2	Model Name		ME 435
1.3	Power source		Electric
1.4	Operator type		Seated
1.5	Max. capacity	Q	3500 kg
1.6	Load centre of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	450 mm
1.9	Wheelbase	y	1750 mm
Weight			
2.1	Service Weight		5550 kg
2.2	Weight on front axle (laden) / rear axle (laden)		8050 kg / 1000 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2720 kg / 2830 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	1085 mm
3.7	Rear wheel	b11	960 mm
Dimensions			
4.1	Tilt of Mast Forward (deg) / Backward (deg)	$\alpha / \beta$	15 / 15
4.7	Height of overhead guard (cabin)	h6	2240 mm
4.7	Overall height of standard overhead guard	h6	2240 mm
4.8	Seat height/stand height	h7	1190 mm
4.12	Height of towing bar (coupling height)	h10	625 mm
4.19	Overall length	l1	3650 mm
4.20	Length to face of forks	l2	2500 mm
4.21	Overall width	b1	1315 mm
4.22	Forks section / width / length	s / e / l	50 mm x 122 mm x 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	1100 mm
4.31	Ground clearance below mast	m1	112 mm
4.32	Ground clearance at centre of wheelbase	m2	115 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	4050 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	4250 mm
4.35	Turning radius	Wa	2400 mm
4.36	Internal turning radius (over tyres)	b13	730 mm
Performances			
5.1	Travel speed (laden / unladen)		19 km/h / 20 km/h
5.2	Lifting speed (laden / unladen)		0.39 Nm / 0.54 Nm
5.3	Lowering speed (laden / unladen)		0.47 Nm / 0.42 Nm
5.5	Drawbar pull (Laden / Unladen)		1690 daN / 1700
5.7	Gradeability - laden / unladen (%)		12 % / 18

	<b>Performances</b>		
5.10	Service brake		Oil bath
	<b>Engine</b>		
6.1	Drive motor rating S2 60 min		18.5 kW
6.2	Lift motor rating at S3 15%		25.4 kW
6.3	Battery according to DIN 43531/35/36 A, B, C		DIN43536 A
6.4	Battery / Batteries capacity		80 V / 700 A
7.5	Fuel consumption according to VDI cycle		12.5
	<b>Miscellaneous</b>		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments (bar)		210 Bar
8.3	Oil flow rate for attachments (l/min)		65
8.4	Measured/guaranteed mean noise level at the ear of the operator		74



Free Lift Triplex		FLT 40	FLT 43	FLT 48	FLT 50	FLT 55	FLT 60
Residual Capacity without attachment (Industrial load chart)	kg	3500	3400	3300	3200	3150	3000
Residual Capacity with integrated side shift (Industrial load chart)	kg	3500	3350	3250	3200	3150	3000
Residual capacity with hooked-on side shift (Industrial load chart)	kg	3500	3400	3300	3200	3150	3000
Height at max capacity	mm	4000	4000	4000			
Height at max capacity with integrated sideshift	mm	4000					



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RCS Nantes