

Technical sheet :

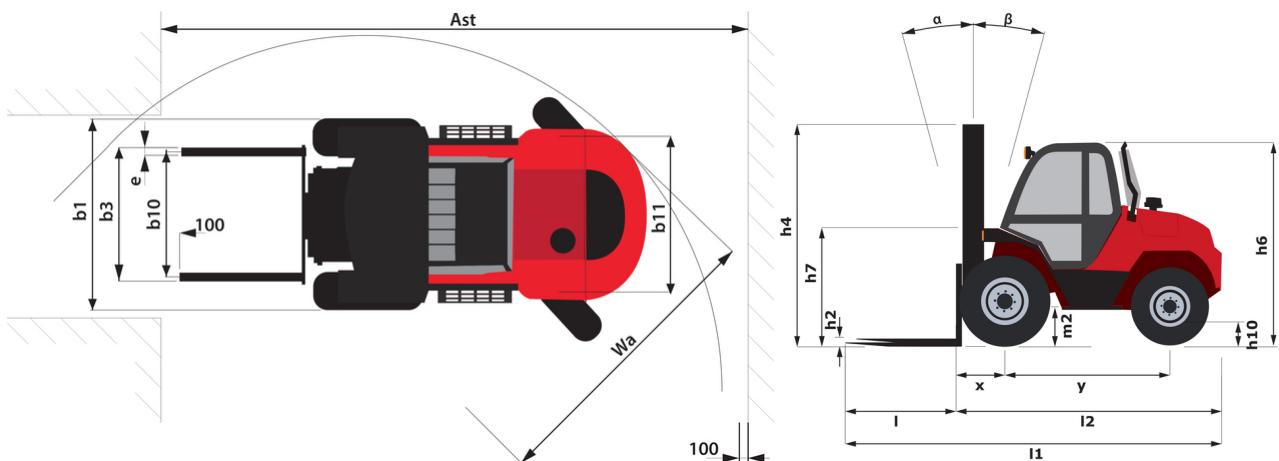
M 50-2 D ST5



 **MANITOU**
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Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	M 50-2 D ST5	
1.3	Power source	Diesel	
1.4	Operator type	Seated	
1.5	Max. capacity	5000 kg	
1.6	Load center of gravity	600 mm	
1.8	Load distance, centre of drive axle to fork	773 mm	
1.9	Wheelbase	2060 mm	
Weight		FVD 37	
2.1	Standard mast reference of the machine	8275 kg	
2.2	Service weight	11615 kg / 1660 kg	
2.3	Weight on front axle (laden) / rear axle (laden)	3285 kg / 4990 kg	
Wheels		Pneumatic	
3.1	Tires type	18-19,5 18PR A224	
3.2	Dimensions of front wheels	10R17,5 G291 GY	
3.3	Dimensions of rear wheels		
3.5	Number of front wheels / rear wheels	2 / 2	
3.5.2	Number of drive wheels	2	
3.6	Front wheel gauge	1600 mm	
3.7	Rear wheel gauge	1640 mm	
Dimensions		2440 mm / 2440 mm	
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggy version)	h6 / h6*	
4.8	Seat height/stand height	h7	1407 mm
4.19	Overall length	l1	4948 mm
4.20	Length to face of forks	l2	3748 mm
4.21	Overall width	b1	2057 mm
4.22	Forks section x width x length	s / e / l	60 mm x 150 mm / 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B	b3	4A
4.24	Fork carriage width	m1	1670 mm
4.31	Ground clearance below mast	m2	250 mm
4.32	Ground clearance at centre of wheelbase	Ast	377 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	5640 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Wa	5640 mm
4.35	Turning radius		3465 mm
Performances		22 km/h / 22 km/h	
5.1	Travel speed (laden / unladen)	0.40 m/s / 0.40 m/s	
5.2	Lifting speed (laden / unladen)	0.50 m/s / 0.40 m/s	
5.3	Lowering speed (laden / unladen)	6900 daN	
5.5	Drawbar pull (Laden)	51 %	
5.7	Gradeability (laden)	Hydraulic	
5.10	Service brake	Torque converter	
Engine		Deutz / TCD 2,9 / Stage V	
7.1	Engine brand / model / norm	75 Hp/55 kW	
7.2	Engine power (Hp / kW)	2300 rpm	
7.3	Rated speed	4 - 2925 cm ³	
7.4	Number of cylinders / Capacity of cylinders		
Miscellaneous		230 bar	
8.2	Working hydraulic pressure for attachments	97 l/min	
8.3	Oil flow rate for attachments	78 dB	
8.4	Sound level at the driver's ear according to DIN 12 053		

M 50-2 D ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward °	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward °	15	15	15	15	15	15
h1 - Mast lowered height mm	2625	2725	2825	2975	3225	3475
h3 - Mast lifting height mm	3300	3700	3700	4000	4500	5000
Residual capacity at max height kg	5000	5000	5000	5000	4750	3500
Residual capacity with hooked-on side shift at max height kg	4700	4700	4700	4700	4400	
Height at max capacity mm	3300	3500	3700	4000	4000	4000
Height at max capacity with hooked-on sideshift mm	3300	3500	3700	4000	4000	

Free Lift Triplex (FLT)	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward °	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward °	15	15	15	15	15	15
h1 - Mast lowered height mm	2425	2500	2560	2675	2825	3000
h2 - Mast free lift mm	1455	1530	1590	1705	1855	2030
h3 - Mast lifting height mm	4300	4500	4700	5000	5500	6000
Residual capacity at max height kg		4500	3500	2000	2000	
Residual capacity with hooked-on side shift at max height kg	4400			3000	1600	250
Height at max capacity mm	2500	4000	4000	3700	5500	2500
Height at max capacity with hooked-on sideshift mm	3500			3700	3700	3200



MANITOU HANDLING YOUR WORLD

Head Office

B.P. 249 - 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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