

Technical sheet :

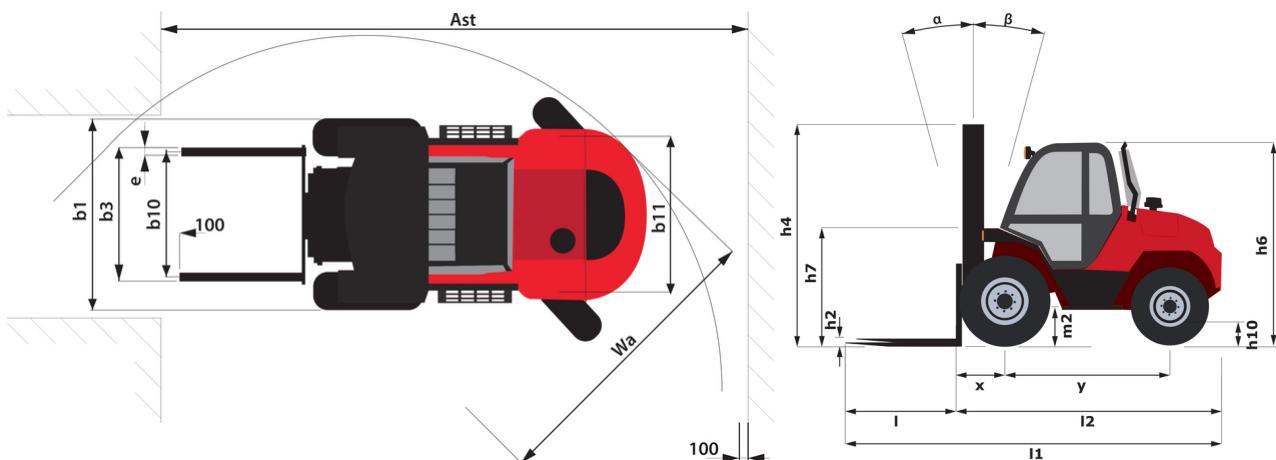
# M 50-4 D ST5



 **MANITOU**  
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Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	M 50-4 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	2120 mm	
Weight		FVD 37	
2.1	Standard mast reference of the machine	8325 kg	
2.2	Service weight	11520 kg / 1805 kg	
2.3	Weight on front axle (laden) / rear axle (laden)	3285 kg / 5040 kg	
Wheels		Pneumatic	
3.1	Tires type	18-22,5 MPT-06	
3.2	Dimensions of front wheels	340/80 R18 XMCL	
3.3	Dimensions of rear wheels	2 / 2	
3.5	Number of front wheels / rear wheels	4	
3.5.2	Number of drive wheels	1620 mm	
3.6	Front wheel gauge	1740 mm	
3.7	Rear wheel gauge		
Dimensions		h6 / h6*	
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggy version)	2486 mm / 2486 mm	
4.8	Seat height/stand height	1455 mm	
4.19	Overall length	4948 mm	
4.20	Length to face of forks	3748 mm	
4.21	Overall width	2080 mm	
4.22	Forks section x width x length	60 mm x 150 mm / 1200 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B	4A	
4.24	Fork carriage width	1670 mm	
4.31	Ground clearance below mast	300 mm	
4.32	Ground clearance at centre of wheelbase	426 mm	
4.33	Aisle width for 1000 x 1200 pallet widthways	6812 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	6812 mm	
4.35	Turning radius	4640 mm	
Performances		h7	
5.1	Travel speed (laden / unladen)	10 km/h / 22 km/h	
5.2	Lifting speed (laden / unladen)	0.40 m/s / 0.40 m/s	
5.3	Lowering speed (laden / unladen)	0.50 m/s / 0.40 m/s	
5.5	Drawbar pull (Laden)	11000 daN	
5.10	Service brake	Hydraulic	
	Transmission type	Torque converter	
Engine		h1	
7.1	Engine brand / model / norm	Deutz / TCD 2,9 / Stage V	
7.2	Engine power (Hp / kW)	75 Hp/55 kW	
7.3	Rated speed	2300 rpm	
7.4	Number of cylinders / Capacity of cylinders	4 - 2925 cm <sup>3</sup>	
Miscellaneous		h2	
8.2	Working hydraulic pressure for attachments	230 bar	
8.3	Oil flow rate for attachments	97 l/min	
8.4	Sound level at the driver's ear according to DIN 12 053	78 dB	

## M 50-4 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	2670	2770	2870	3020	3270	3520
h3 - Mast lifting height mm	3300	3500	3700	4000	4500	5000
Residual capacity at max height kg	5000	5000	5000	5000	3600	2200
Residual capacity with hooked-on side shift at max height kg	4700	4700	4700	4000	4000	3800
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	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	2470	2545	2605	2720	2870	3045
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	4350	3500	2800	1800	900
Residual capacity with hooked-on side shift at max height kg		4100	3600	2100	2000	900
Height at max capacity mm	3800	4000	4000	4000	4000	4000
Height at max capacity with hooked-on sideshift mm		4000	4000	4000	4000	4000

## Equipment

Standard
Battery cut-off
Easy link
Front and rear road lighting
Front tires - Rough terrain profil
Mechanical suspension PVC seat - Grammer MSG65
Open cab
Oscillating rear axle
Rear tires - Rough terrain profil
Windshield wiper (front and rear)

Optional
Audio warning on reverse movements
Enclosed Cab with Heat and A/C
Hydraulic kit 4th element
LED Rotative Beacon
Load backrest
Pneumatic seat
Sideshift carriage



# **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](http://www.manitou.com)



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