Technical sheet :

M 50-4 D ST5





			-
	Technical characteristics		
1.1	Manufacturer		
1.2	Model Name		
1.3	Power source		
1.4	Operator type		
1.5	Max. capacity		(
1.6	Load center of gravity		C
1.8	Load distance, centre of drive axle to fork)
1.9	Wheelbase		J
	Weight		
	Standard mast reference of the machine		
2.1	Service weight		
2.2	Weight on front axle (laden) / rear axle (laden)		
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		
	Wheels		
3.1	Tires type		
3.2	Dimensions of front wheels		
3.3	Dimensions of rear wheels		
3.5	Number of front wheels / rear wheels		
3.5.2	Number of drive wheels		
3.6	Front wheel gauge		b
3.7	Rear wheel gauge		b
5.7	Dimensions		U
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	bí	6/
4.7	Seat height/stand height	IIC	ر u h
4.0	Overall length		1
	5		L L
4.20 4.21	Length to face of forks Overall width		b
4.21			
	Forks section x width x length	S	/
4.23	Fork carriage ISO 2328 (class/form) A/B		Ŀ
4.24	Fork carriage width		b
4.31	Ground clearance below mast		n
4.32	Ground clearance at centre of wheelbase		m
4.33	Aisle width for 1000 x 1200 pallet widthways		A
4.34	Aisle width for 800 x 1200 pallet lengthways		A
4.35	Turning radius		W
	Performances		
5.1	Travel speed (laden / unladen)		
5.2	Lifting speed (laden / unladen)		
5.3	Lowering speed (laden / unladen)		
5.5	Drawbar pull (Laden)		
5.10	Service brake		
	Transmission type		
	Engine		
7.1	Engine brand / model / norm		
7.2	I.C. Engine power rating		
7.3	Rated speed		
7.4	Number of cylinders / Capacity of cylinders		
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		
8.3	Oil flow rate for attachments		
8.4	Sound level at the driver's ear according to DIN 12 053		

M 50-4 D ST 5	Created on July 15, 2025 at 1:41 PM UTC
	Metric
	MANITOU
	M 50-4 D ST5
	Diesel
	Seated
Q	5000 kg
С	600 mm
x	773 mm
у	2120 mm
	FVD 37
	8325 kg
	11520 kg / 1805 kg
	3285 kg / 5040 kg
	Pneumatic
	18-22,5 MPT-06
	340/80 R18 XMCL
	2/2
1.44	4
b10	1620 mm
b11	1740 mm
h6 / h6*	2486 mm / 2486 mm
h7	1455 mm
1	4948 mm
12	3748 mm
b1	2080 mm
s/e/l	60 mm x 150 mm / 1200 mm
07071	4A
b3	1670 mm
m1	300 mm
m2	426 mm
Ast	6812 mm
Ast	6812 mm
Wa	4640 mm
	10 km/h / 22 km/h
	0.40 m/s / 0.40 m/s
	0.50 m/s / 0.40 m/s
	11000 daN
	Hydraulic
	Torque converter
	Deutz / TCD 2,9 / Stage V
	55 kW
	2300 rpm
	4 - 2925 cm³
	220 ber
	230 bar 97 I/min
	78 dB
	/ 0 UD

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	۰	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward	۰	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 heigth	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	۰	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 heigth	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	
Hydraulic kit 3rd element	
Open cab	
Oscillating rear axle	
PVC mechanical suspension seat	
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



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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