Technical sheet :

M 50-4 D ST5



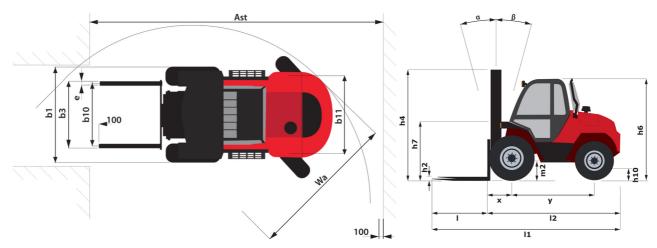


1 50-4 D S T 5	Created on September	16,	2025 at	10:18	AM UTC
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	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	C
1.6	Load center of gravity	C
1.8	Load distance, centre of drive axle to fork	x
1.9	Wheelbase)
	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)	
2.0	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	b1
3.7	Rear wheel gauge	b1
0.7	Dimensions	
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 /
4.8	Seat height/stand height	h
4.19	Overall length	ľ
4.20	Length to face of forks	12
4.21	Overall width	b
4.22	Forks section x width x length	s / e
4.23	Fork carriage ISO 2328 (class/form) A/B	
4.24	Fork carriage width	b
4.31	Ground clearance below mast	m
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	

0.0	
	Metric
	MANITOU
	M 50-4 D ST5
	Diesel
	Seated
Q	5000 kg
с	600 mm
х	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
	4
10	1620 mm
11	1740 mm
/ h6*	2486 mm / 2486 mm
h7	1455 mm
11	4948 mm
12	3748 mm
b1	2080 mm
e/l	60 mm x 150 mm / 1200 mm
	4A
b3	1670 mm
n1	300 mm
n2	426 mm
Ast	6812 mm
st	6812 mm
Va	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
	230 bar
	97 l/min
	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	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	۰	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	



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