Technical sheet :

M 50-4 D ST5



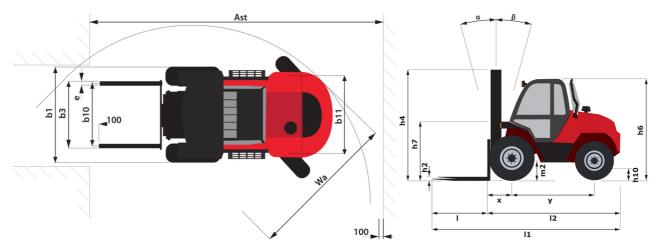


1 50-4 D S T 5	Created on September	15,	2025 at	10:08	PM UTC
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	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	C
1.6	Load center of gravity	C
1.8	Load distance, centre of drive axle 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	

	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
	3203 kg / 3040 kg
	Pneumatic
	18-22,5 MPT-06
	340/80 R18 XMCL
	2 / 2
	4
.10	
10	1620 mm
011	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
e/1	4A
b3	4A 1670 mm
m1	300 mm
n2	426 mm
Ast	6812 mm
Ast	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
	000 h
	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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