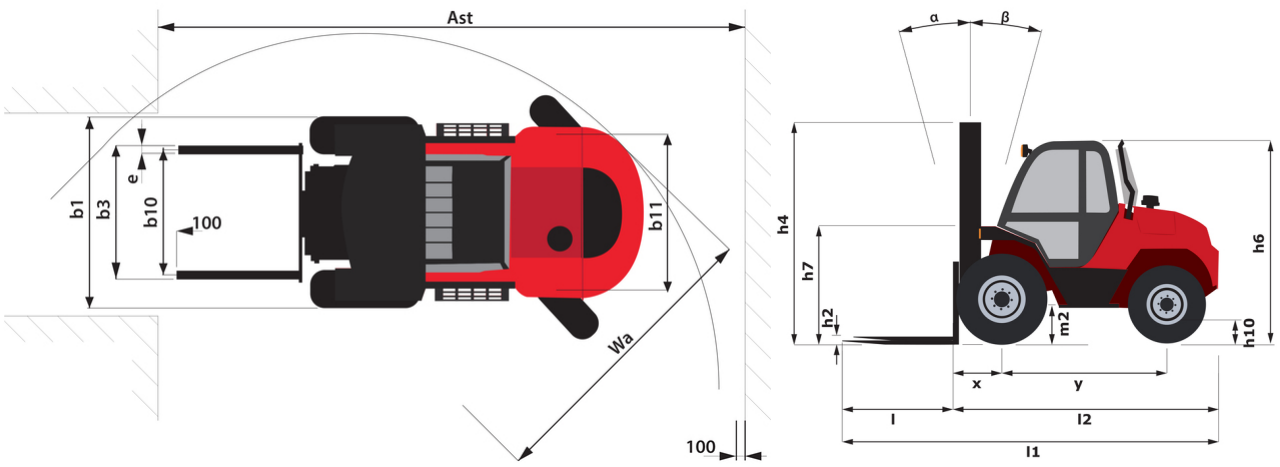
Technical sheet :

M 50-4 D ST5

MANITOU
HANDLING YOUR WORLD

	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	Q	5000 kg
1.6	Load center of gravity	c	600 mm
1.8	Load distance, centre of drive axle to fork	x	773 mm
1.9	Wheelbase	y	2120 mm
	Weight		
	Standard mast reference of the machine		FVD 37
2.1	Service weight		8325 kg
2.2	Weight on front axle (laden) / rear axle (laden)		11520 kg / 1805 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3285 kg / 5040 kg
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		18-22,5 MPT-06
3.3	Dimensions of rear wheels		340/80 R18 XMCL
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	1620 mm
3.7	Rear wheel gauge	b11	1740 mm
	Dimensions		
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	2486 mm / 2486 mm
4.8	Seat height/stand height	h7	1455 mm
4.19	Overall length	l1	4948 mm
4.20	Length to face of forks	l2	3748 mm
4.21	Overall width	b1	2080 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		4A
4.24	Fork carriage width	b3	1670 mm
4.31	Ground clearance below mast	m1	300 mm
4.32	Ground clearance at centre of wheelbase	m2	426 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	6812 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6812 mm
4.35	Turning radius	Wa	4640 mm
	Performances		
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		
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 cm³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		230 bar
8.3	Oil flow rate for attachments		52 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 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	°	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
Mechanical suspension PVC seat - Grammer MSG65
Open cab
Operation Safety System (OSS)
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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