Technical sheet :

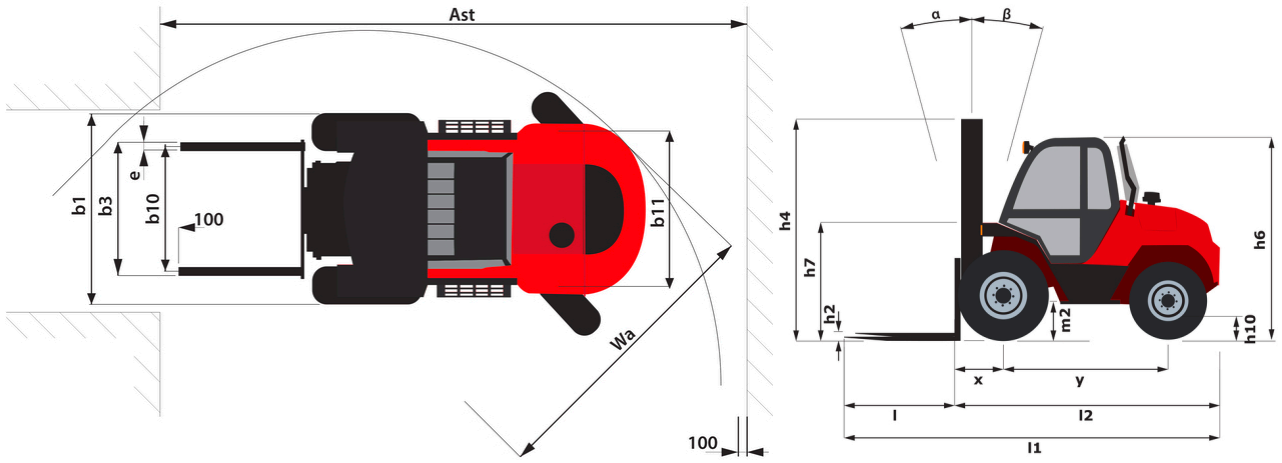
M 50-4



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		M 50-4
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	772 mm
1.9	Wheelbase	y	2120 mm
	Weight		
	Standard mast reference of the machine		FVD 37
2.1	Service weight		8130 kg
2.2	Weight on front axle (laden) / rear axle (laden)		11106 kg / 2024 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		2870 kg / 5260 kg
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		400/80-24 162A A325 SBHRC
3.3	Dimensions of rear wheels		10.5-18 12PR I317 MPT TL
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	1700 mm
3.7	Rear wheel gauge	b11	1760 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2555 mm
4.8	Seat height/stand height	h7	1483 mm
4.19	Overall length	l1	4917 mm
4.20	Length to face of forks	l2	3717 mm
4.21	Overall width	b1	2104 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		FEM 4A
4.24	Fork carriage width	b3	1670 mm
4.31	Ground clearance below mast	m1	368 mm
4.32	Ground clearance at centre of wheelbase	m2	354 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	6685 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6885 mm
4.35	Turning radius	Wa	4713 m
	Performances		
5.1	Travel speed (laden / unladen)		27.20 km/h / 27.20 km/h
5.2	Lifting speed (laden / unladen)		0.34 m/s / 0.34 m/s
5.3	Lowering speed (laden / unladen)		0.42 m/s / 0.32 m/s
5.5	Drawbar pull (Laden)		13651 daN
5.7	Gradeability (laden / unladen)		100 % / 66 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Transmission type		Torque converter
	Engine		
7.1	Engine brand / model		Deutz / TCD 2,9
7.2	Engine power (kW)		55 kW
7.3	Rated speed		2300 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2925 cm³
7.5	Fuel consumption according to VDI cycle		5.86 l/h
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		178 bar
8.3	Oil flow rate for attachments		67 l/min
8.4	Sound level at the driver's ear according to DIN 12 053		79.10 dB

M 50-4 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
α - Mast/fork carriage tilt, forward	°	15	15	15	15	15	15	15
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12
h1 - Mast lowered height	mm	2610	2760	2860	2960	3110	3360	3610
h3 - Mast lifting height	mm	3000	3300	3500	3700	4000	4500	5000
h4 - Mast extended height	mm	4165	4465	4665	4865	5165	5665	6165
Residual capacity at max height	kg	5000	5000	5000	5000	5000	3600	2200
Height at max capacity	mm	3000	3300	3500	3700	4000	4000	4000

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	15	15	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward	°	12	12	12	12	12	12	12	12
h1 - Mast lowered height	mm	2360	2460	2560	2635	2695	2810	2960	3135
h2 - Mast free lift	mm	1255	1355	1455	1530	1590	1705	1855	2030
h3 - Mast lifting height	mm	3700	4000	4300	4500	4700	5000	5500	6000
h4 - Mast extended height	mm	4865	5165	5465	5665	5865	6165	6665	7165
Residual capacity at max height	kg			4500	4350	3500	2800	1800	900
Residual capacity with hooked-on side shift at max heigth	kg						2100		
Height at max capacity	mm			3800	4000	4000	4000	4000	4000
Height at max capacity with hooked-on sideshift	mm						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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