Technical sheet :

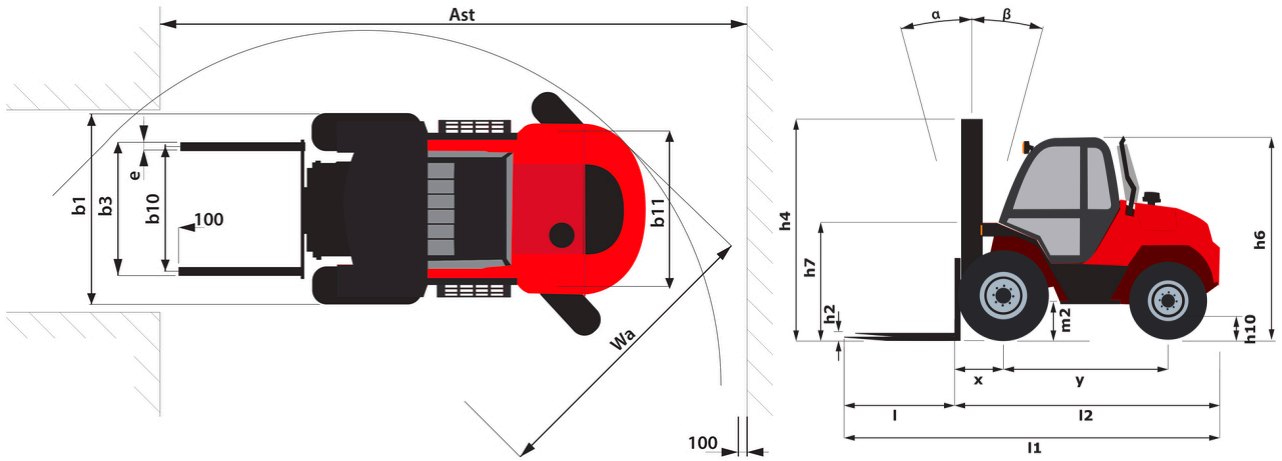
M 50-2



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		MANITOU
1.2	Model Name		M 50-2
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		18R22.5 XF TL 161A8/175A2
3.3	Dimensions of rear wheels		235/75R17.5 132/130M KM
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	1620 mm
3.7	Rear wheel gauge	b11	1680 mm
	Dimensions		
4.7	Height of overhead guard (cabin)	h6	2525 mm
4.8	Seat height/stand height	h7	1452 mm
4.19	Overall length	l1	4917 mm
4.20	Length to face of forks	l2	3717 mm
4.21	Overall width	b1	2076 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	346 mm
4.32	Ground clearance at centre of wheelbase	m2	400 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	5553 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5753 mm
4.35	Turning radius	Wa	3581 m
	Performances		
5.1	Travel speed (laden / unladen)		26.30 km/h / 26.30 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)		17307 daN
5.7	Gradeability (laden / unladen)		51 % / 21 %
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		210 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 50-2 - 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	2590	2740	2840	2940	3090	3340	3590
h3 - Mast lifting height	mm	3000	3300	4645	3700	4000	4500	5000
h4 - Mast extended height	mm	4145	4445	4645	4845	5145	5645	6145
Residual capacity at max height	kg	5000	5000	5000	5000	5000	4750	3500
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	2340	2440	2540	2615	2675	2790	2940	3115
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	4845	5145	5445	5645	5845	6145	6645	7145
Residual capacity at max height	kg		4800		4500	3500	2000	2000	
Height at max capacity	mm		3500		4000	4000	3700	3700	

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