

Technical sheet :

M 50-4 ST5



 **MANITOU**
HANDLING YOUR WORLD

Technical characteristics			Metric	Imperial
1.1	Manufacturer		MANITOU	MANITOU
1.2	Model Name		M 50-4 ST5	M 50-4 ST5
1.3	Power source		Diesel	Diesel
1.4	Operator type		Sitting	Sitting
1.5	Max. capacity	Q	5000 kg	11023 lb
1.6	Load centre of gravity	c	600 mm	24 in
1.8	Load distance, centre of drive axle to fork	x	773 mm	30 in
1.9	Wheelbase	y	2120 mm	83 in
Weight				
2.1	Service weight		8325 kg	18353 lb
2.2	Weight on front axle (laden) / rear axle (laden)		11520 kg / 1805 kg	25397 lb / 3979 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3285 kg / 5040 kg	7242 lb / 11111 lb
Wheels				
3.1	Tyres type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		18-22,5 MPT-06	18-22,5 MPT-06
3.3	Dimensions of rear wheels		340/80 R18 XMCL	340/80 R18 XMCL
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		4	4
3.6	Front wheel gauge	b10	1620 mm	64 in
3.7	Rear wheel gauge	b11	1740 mm	69 in
Dimensions				
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	2486 mm / 2486 mm	98 in / 98 in
4.8	Seat height/stand height	h7	1455 mm	57 in
4.19	Overall length	l1	4948 mm	195 in
4.20	Length to face of forks	l2	3748 mm	148 in
4.21	Overall width	b1	2080 mm	82 in
4.22	Forks section x width x length	s / e / l	60 mm x 150 mm / 1200 mm	2 in x 6 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A	4A
4.24	Fork carriage width	b3	1670 mm	66 in
4.31	Ground clearance below mast	m1	300 mm	12 in
4.32	Ground clearance at centre of wheelbase	m2	426 mm	17 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	6812 mm	268 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6812 mm	268 in
4.35	Turning radius	Wa	4640 mm	183 in
Performances				
5.1	Travel speed (laden / unladen)		10 km/h / 22 km/h	6 mi/h / 14 mi/h
5.2	Lifting speed (laden / unladen)		0.40 m/s / 0.40 m/s	1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		0.50 m/s / 0.40 m/s	2 ft/s / 1 ft/s
5.5	Drawbar pull (Laden)		11000 daN	11000 daN
5.10	Service brake		Hydraulic	Hydraulic
Engine				
7.1	Engine brand / model		Deutz / TCD 2,9	Deutz / TCD 2,9
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.3	Rated speed		2300 rpm	2300 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 2925 cm³	4 - 178 in³
Miscellaneous				
8.2	Working hydraulic pressure for attachments		230 bar	3336 PSI
8.3	Oil flow rate for attachments		97 l/min	26 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		78 dB	78 dB

M 50-4 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	
Mast/fork carriage tilt, forward	°	15	15	15	15	15	
Mast/fork carriage tilt, backward	°	15	15	15	15	15	
h1 - Mast lowered height	mm	2670	2770	2870	3020	3270	3520
h3 - Mast lifting height	mm	3700	3700	3700	3700	3700	3700
h4 - Mast extended height	mm	4370	4570	4770	5070	5570	6070
Residual capacity at max height	kg	5000	5000	5000	5000	3600	2200
Residual capacity with hooked-on side shift (Industrial load chart)	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	
Mast/fork carriage tilt, forward	°	15	15	15	10	10	10
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	3700	3700	3700	3700	3700	3700
h4 - Mast extended height	mm	5370	5570	5770	6070	6570	7070
Residual capacity at max height	kg	4500	4350	3500	2800	1800	900
Residual capacity with hooked-on side shift (Industrial load chart)	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



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