

Technical sheet :

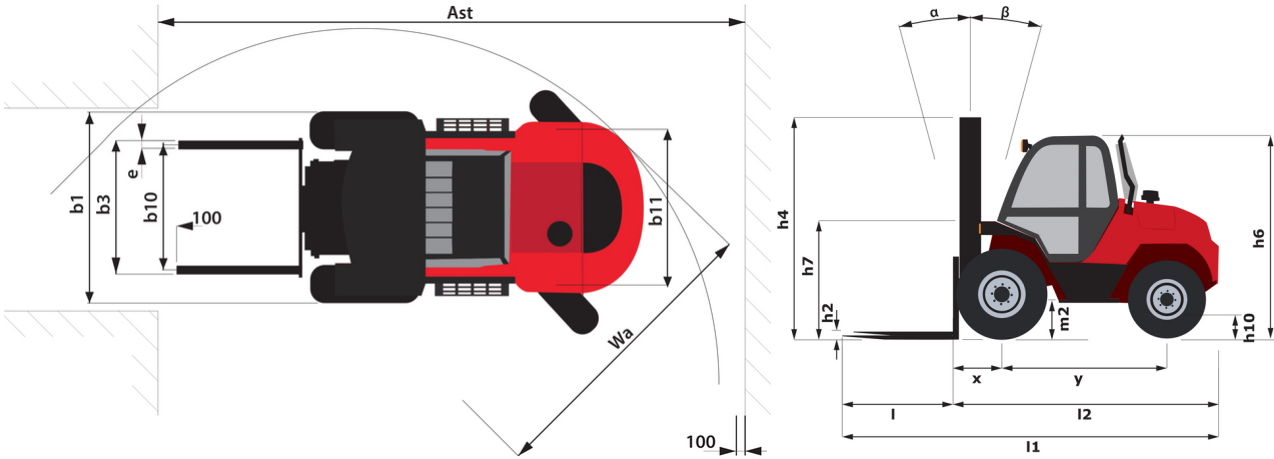
M 50-4 D ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Metric	Imperial
1.1	Manufacturer		MANITOU	MANITOU
1.2	Model Name		M 50-4 D ST5	M 50-4 D ST5
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	5000 kg	11023 lb
1.6	Load center 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	Tires 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 cariage ISO 2328 (class/form) A/B		4A	4A
4.24	Fork cariage 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 mph / 14 mph
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			
7.2	Engine power according to ISO 1585		55 kW	55 kW
7.1	Engine brand / model / nom		Deutz / TCD 2,9 / Stage V	Deutz / TCD 2,9 / Stage V
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 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
Mast/fork carriage tilt, forward	°	15	15	15	15	15	15
Mast/fork carriage tilt, backward	°	15	15	15	15	15	15
h1 - Mast lowered height	in (mm)	105.1 (2670)	109.1 (2770)	113 (2870)	118.9 (3020)	128.7 (3270)	138.6 (3520)
h3 - Mast lifting height	in (mm)	129.9 (3300)	137.8 (3500)	145.7 (3700)	157.5 (4000)	177.2 (4500)	196.9 (5000)
Residual capacity at max height	lb (kg)	11023 (5000)	11023 (5000)	11023 (5000)	11023 (5000)	7937 (3600)	4850 (2200)
Residual capacity with hooked-on side shift at max heigh	lb (kg)	10362 (4700)	10362 (4700)	10362 (4700)	8818 (4000)	8818 (4000)	8378 (3800)
Height at max capacity	in (mm)	129.9 (3300)	137.8 (3500)	145.7 (3700)	157.5 (4000)	157.5 (4000)	157.5 (4000)
Height at max capacity with hooked-on sideshift	in (mm)	129.9 (3300)	137.8 (3500)	145.7 (3700)	157.5 (4000)	157.5 (4000)	157.5 (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	in (mm)	97.2 (2470)	100.2 (2545)	102.6 (2605)	107.1 (2720)	113 (2870)	119.9 (3045)
h2 - Mast free lift	in (mm)	57.3 (1455)	60.2 (1530)	62.6 (1590)	67.1 (1705)	73 (1855)	79.9 (2030)
h3 - Mast lifting height	in (mm)	169.3 (4300)	177.2 (4500)	185 (4700)	196.9 (5000)	216.5 (5500)	236.2 (6000)
Residual capacity at max height	lb (kg)	9921 (4500)	9590 (4350)	7716 (3500)	6173 (2800)	3968 (1800)	1984 (900)
Residual capacity with hooked-on side shift at max heigh	lb (kg)		9039 (4100)	7937 (3600)	4630 (2100)	4409 (2000)	1984 (900)
Height at max capacity	in (mm)	149.6 (3800)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)
Height at max capacity with hooked-on sideshift	in (mm)		157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)	157.5 (4000)



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