

Technical sheet :

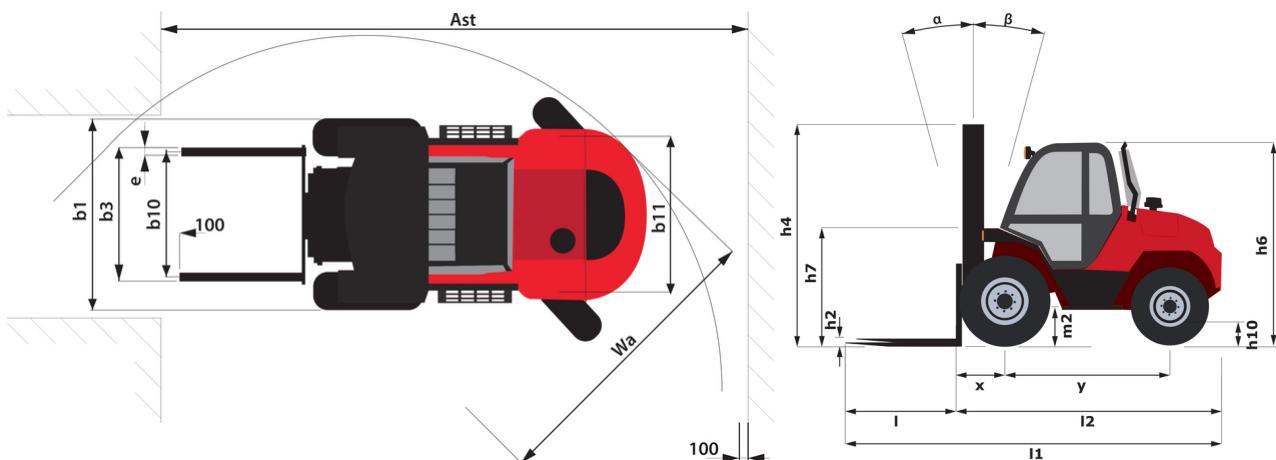
M 50-4 D ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
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	11023 lb
1.6	Load center of gravity	c	24 in
1.8	Load distance, centre of drive axle to fork	x	30 in
1.9	Wheelbase	y	83 in
	Weight		FVD 37
2.1	Standard mast reference of the machine		18353 lb
2.2	Service weight		25397 lb / 3979 lb
2.3	Weight on front axle (laden) / rear axle (laden)		7242 lb / 11111 lb
	Wheels		Pneumatic
3.1	Tires type		18-22.5 MPT06
3.2	Dimensions of front wheels		340/80 R18 XMCL
3.3	Dimensions of rear wheels		2 / 2
3.5	Number of front wheels / rear wheels		4
3.5.2	Number of drive wheels	b10	64 in
3.6	Front wheel gauge	b11	69 in
3.7	Rear wheel gauge		98 in / 98 in
	Dimensions		57 in
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggy version)	h6 / h6*	195 in
4.8	Seat height/stand height	h7	148 in
4.19	Overall length	l1	82 in
4.20	Length to face of forks	l2	2 in x 6 in / 47 in
4.21	Overall width	b1	4A
4.22	Forks section x width x length	s / e / l	66 in
4.23	Fork carriage ISO 2328 (class/form) A/B	b3	12 in
4.24	Fork carriage width	m1	17 in
4.31	Ground clearance below mast	m2	268 in
4.32	Ground clearance at centre of wheelbase	Ast	268 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	183 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Wa	6 mph / 14 mph
4.35	Turning radius		1 ft/s / 1 ft/s
	Performances		2 ft/s / 1 ft/s
5.1	Travel speed (laden / unladen)		11000 daN
5.2	Lifting speed (laden / unladen)		Hydraulic
5.3	Lowering speed (laden / unladen)		Torque converter
5.5	Drawbar pull (Laden)		
5.10	Service brake		
	Transmission type		
	Engine		Deutz / TCD 2,9 / Stage V
7.1	Engine brand / model / norm		75 Hp/55 kW
7.2	Engine power (Hp / kW)		2300 rpm
7.3	Rated speed		4 - 178 in ³
7.4	Number of cylinders / Capacity of cylinders		
	Miscellaneous		3336 PSI
8.2	Working hydraulic pressure for attachments		26 US gpm
8.3	Oil flow rate for attachments		78 dB
8.4	Sound level at the driver's ear according to DIN 12 053		

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	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15
h1 - Mast lowered height	in	105.1	109.1	113	118.9	128.7
h3 - Mast lifting height	in	129.9	137.8	145.7	157.5	177.2
Residual capacity at max height	lb	11023	11023	11023	11023	7937
Residual capacity with hooked-on side shift at max height	lb	10362	10362	10362	8818	8818
Height at max capacity	in	129.9	137.8	145.7	157.5	157.5
Height at max capacity with hooked-on sideshift	in	129.9	137.8	145.7	157.5	157.5

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
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15
h1 - Mast lowered height	in	97.2	100.2	102.6	107.1	113
h2 - Mast free lift	in	57.3	60.2	62.6	67.1	73
h3 - Mast lifting height	in	169.3	177.2	185	196.9	216.5
Residual capacity at max height	lb	9921	9590	7716	6173	3968
Residual capacity with hooked-on side shift at max height	lb		9039	7937	4630	4409
Height at max capacity	in	149.6	157.5	157.5	157.5	157.5
Height at max capacity with hooked-on sideshift	in		157.5	157.5	157.5	157.5

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
Oscillating rear axle
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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