Technical sheet :

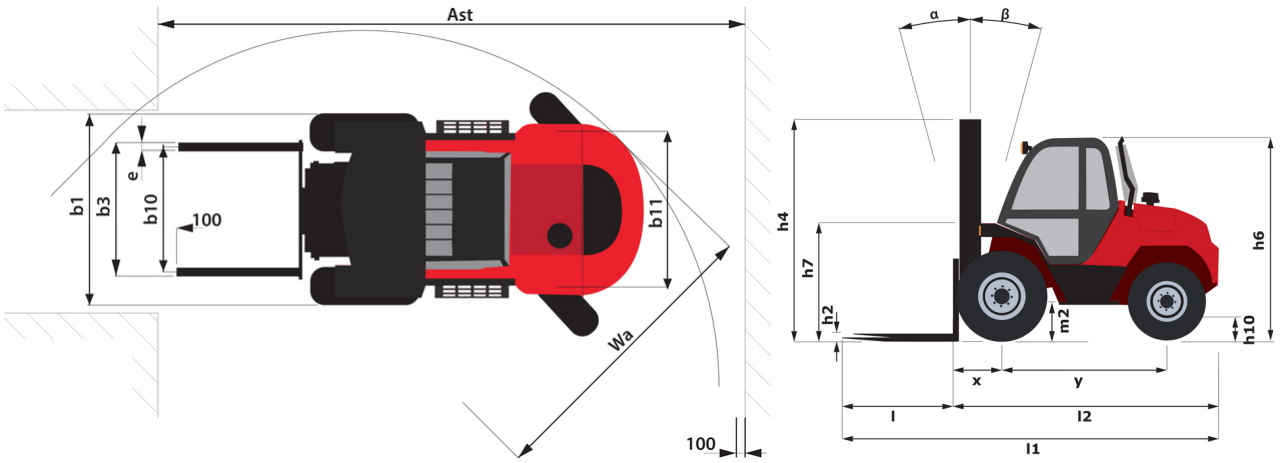
M 50-2 D ST5



MANITOU
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		M 50-2 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	81 in
	Weight		
	Standard mast reference of the machine		FVD 37
2.1	Service weight		18243 lb
2.2	Weight on front axle (laden) / rear axle (laden)		25607 lb / 3660 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7242 lb / 11001 lb
	Wheels		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		18-19,5 18PR A224
3.3	Dimensions of rear wheels		10R17,5 G291 GY
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		2
3.6	Front wheel gauge	b10	63 in
3.7	Rear wheel gauge	b11	65 in
	Dimensions		
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	96 in / 96 in
4.8	Seat height/stand height	h7	55 in
4.19	Overall length	l1	195 in
4.20	Length to face of forks	l2	148 in
4.21	Overall width	b1	81 in
4.22	Forks section x width x length	s / e / l	2 in x 6 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		4A
4.24	Fork carriage width	b3	66 in
4.31	Ground clearance below mast	m1	10 in
4.32	Ground clearance at centre of wheelbase	m2	15 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	222 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	222 in
4.35	Turning radius	Wa	136 in
	Performances		
5.1	Travel speed (laden / unladen)		14 mph / 14 mph
5.2	Lifting speed (laden / unladen)		1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s / 1 ft/s
5.5	Drawbar pull (Laden)		6900 daN
5.7	Gradeability (laden)		51 %
5.10	Service brake		Hydraulic
	Transmission type		Torque converter
	Engine		
7.1	Engine brand / model / norm		Deutz / TCD 2,9 / Stage V
7.2	I.C. Engine power rating		55 kW
7.3	Rated speed		2300 rpm
7.4	Number of cylinders / Capacity of cylinders		4 - 178 in³
	Miscellaneous		
8.2	Working hydraulic pressure for attachments		3336 PSI
8.3	Oil flow rate for attachments		26 US gpm
8.4	Sound level at the driver's ear according to DIN 12 053		78 dB

M 50-2 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	15	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15	15
h1 - Mast lowered height	in	103.3	107.3	111.2	117.1	127	136.8
h3 - Mast lifting height	in	129.9	145.7	145.7	157.5	177.2	196.9
Residual capacity at max height	lb	11023	11023	11023	11023	10472	7716
Residual capacity with hooked-on side shift at max heigth	lb	10362	10362	10362	10362	9700	
Height at max capacity	in	129.9	137.8	145.7	157.5	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	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15	15
h1 - Mast lowered height	in	95.5	98.4	100.8	105.3	111.2	118.1
h2 - Mast free lift	in	57.3	60.2	62.6	67.1	73	79.9
h3 - Mast lifting height	in	169.3	177.2	185	196.9	216.5	236.2
Residual capacity at max height	lb		9921	7716	4409	4409	
Residual capacity with hooked-on side shift at max heigth	lb	9700			6614	3527	551
Height at max capacity	in	98.4	157.5	157.5	145.7	216.5	98.4
Height at max capacity with hooked-on sideshift	in	137.8			145.7	145.7	126

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