

Technical sheet :

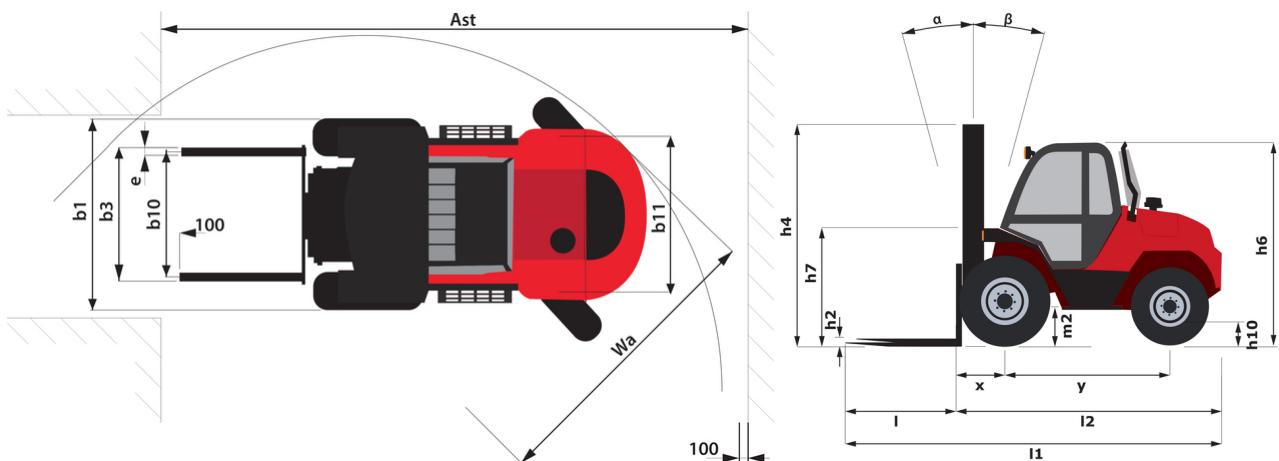
# M 50-2 D ST5



 **MANITOU**  
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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	11023 lb	
1.6	Load center of gravity	24 in	
1.8	Load distance, centre of drive axle to fork	30 in	
1.9	Wheelbase	81 in	
Weight		FVD 37	
2.1	Standard mast reference of the machine	18243 lb	
2.2	Service weight	25607 lb / 3660 lb	
2.3	Weight on front axle (laden) / rear axle (laden)	7242 lb / 11001 lb	
Wheels		Pneumatic	
3.1	Tires type	18-19,5 18PR A224	
3.2	Dimensions of front wheels	10R17,5 G291 GY	
3.3	Dimensions of rear wheels		
3.5	Number of front wheels / rear wheels	2 / 2	
3.5.2	Number of drive wheels	2	
3.6	Front wheel gauge	63 in	
3.7	Rear wheel gauge	65 in	
Dimensions		96 in / 96 in	
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggy version)	h6 / h6*	
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	b3	4A
4.24	Fork carriage width	m1	66 in
4.31	Ground clearance below mast	m2	10 in
4.32	Ground clearance at centre of wheelbase	Ast	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	Wa	222 in
4.35	Turning radius		136 in
Performances		14 mph / 14 mph	
5.1	Travel speed (laden / unladen)	1 ft/s / 1 ft/s	
5.2	Lifting speed (laden / unladen)	2 ft/s / 1 ft/s	
5.3	Lowering speed (laden / unladen)	6900 daN	
5.5	Drawbar pull (Laden)	51 %	
5.7	Gradeability (laden)	Hydraulic	
5.10	Service brake	Torque converter	
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 <sup>3</sup>	
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 50-2 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	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15
h1 - Mast lowered height	in	103.3	107.3	111.2	117.1	127
h3 - Mast lifting height	in	129.9	145.7	145.7	157.5	177.2
Residual capacity at max height	lb	11023	11023	11023	11023	10472
Residual capacity with hooked-on side shift at max height	lb	10362	10362	10362	10362	9700
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	95.5	98.4	100.8	105.3	111.2
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	7716	4409	4409
Residual capacity with hooked-on side shift at max height	lb	9700			6614	3527
Height at max capacity	in	98.4	157.5	157.5	145.7	216.5
Height at max capacity with hooked-on sideshift	in	137.8			145.7	145.7
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