

Technical sheet :

M 50-2 ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		M 50-2 ST5
1.3	Power source		Diesel
1.4	Operator type		Sitting
1.5	Max. capacity	Q	11023 lb
1.6	Load centre 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		
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	Tyres 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 mi/h / 14 mi/h
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
	Engine		
7.1	Engine brand / model		Deutz / TCD 2,9
7.2	Engine power according to ISO 1585		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 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 33	FVD 35	FVD 37	FVD 40	FVD 45	FVD 50
h1 - Height mast lowered *	in	8' 1"	8' 7"	8' 11"	9' 3"	9' 9"	10' 7"	11' 5"
h4 - Height mast extended *	in	13' 2"	14' 2"	14' 10"	15' 6"	16' 6"	18' 2"	19' 9"
h3 - Max. lifting height	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	14' 9"	16' 5"
α / β - Mast inclination (front / rear)	°	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15
Residual capacity at max height	lb	11023.11	11023.11	11023.11	11023.11	11023.11	10471.96	7716.18
Residual capacity without attachment (Off road load chart)	lb	11023.11	11023.11	11023.11	11023.11	11023.11	10075.13	7716.18
Residual capacity with hooked-on side shift (Off road load chart)	lb	10361.73	10361.73	10361.73	10361.73	10361.73	9700.34	
Height at max capacity	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	13' 1"	13' 1"
Height at max capacity with hooked-on sideshift	in	9' 10"	10' 10"	11' 6"	12' 2"	13' 1"	13' 1"	

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
h1 - Height mast lowered *	in	7' 4"	7' 8"	7' 11"	8' 2"	8' 5"	8' 9"	9' 3"	9' 10"
h2 - Free lift	in	4' 1"	4' 5"	4' 9"	5'	5' 3"	5' 7"	6' 1"	6' 8"
h4 - Height mast extended *	in	15' 6"	16' 6"	17' 6"	18' 2"	18' 9"	19' 9"	21' 5"	23' 1"
h3 - Max. lifting height	in	12' 2"	13' 1"	14' 1"	14' 9"	15' 5"	16' 5"	18' 1"	19' 8"
α / β - Mast inclination (front / rear)	°	15 / 15	15 / 15	15 / 15	15 / 15	15 / 15	10 / 15	10 / 15	10 / 15
Residual capacity at max height	lb		10582.19		9920.80		4409.25	4409.25	
Residual capacity without attachment (Off road load chart)	lb		10582.19		9920.80		4409.25	4409.25	
Residual capacity with hooked-on side shift (Off road load chart)	lb		10031.03	9700.34			6613.87		5511.56
Height at max capacity	in		11' 6"		13' 1"		12' 2"	12' 2"	
Height at max capacity with hooked-on sideshift	in		11' 6"	11' 6"			12' 2"		10' 6"



Head Office

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

www.manitou.com



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