

Technical sheet :

# **M 50-4 D ST5**

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 **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			
	Standard mast reference of the machine		FVD 37
2.1	Service weight		18353 lb
2.2	Weight on front axle (laden) / rear axle (laden)		25397 lb / 3979 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		7242 lb / 11111 lb
Wheels			
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		18-22,5 MPT-06
3.3	Dimensions of rear wheels		340/80 R18 XMCL
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	64 in
3.7	Rear wheel gauge	b11	69 in
Dimensions			
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	98 in / 98 in
4.8	Seat height/stand height	h7	57 in
4.19	Overall length	l1	195 in
4.20	Length to face of forks	l2	148 in
4.21	Overall width	b1	82 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	12 in
4.32	Ground clearance at centre of wheelbase	m2	17 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	268 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	268 in
4.35	Turning radius	Wa	183 in
Performances			
5.1	Travel speed (laden / unladen)		6 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)		11000 daN
5.10	Service brake		Hydraulic
	Transmission type		Torque converter
Engine			
7.1	Engine brand / model / norm		Deutz / TCD 2,9 / Stage V
7.2	Engine power (Hp / kW)		75 Hp/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 50-4 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	138.6
h3 - Mast lifting height	in	129.9	137.8	145.7	157.5	177.2	196.9
Residual capacity at max height	lb	11023	11023	11023	11023	7937	4850
Residual capacity with hooked-on side shift at max height	lb	10362	10362	10362	8818	8818	8378
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	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	119.9
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	9590	7716	6173	3968	1984
Residual capacity with hooked-on side shift at max height	lb		9039	7937	4630	4409	1984
Height at max capacity	in	149.6	157.5	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	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
Operation Safety System (OSS)
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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