Technical sheet:

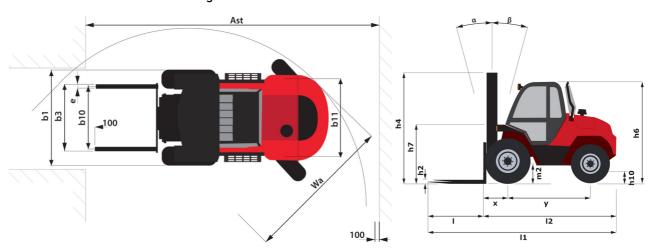
M 50-4 D ST5





		M 50-4 D ST5 Created	on November 26, 2025 at 1.50 AM U
	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
2.3	Wheels		7242 10 / 11111 10
3.1	Tires type		Pneumatic
3.1	Dimensions of front wheels		18-22,5 MPT-06
3.2			·
3.5	Dimensions of rear wheels		340/80 R18 XMCL 2 / 2
	Number of front wheels / rear wheels		4
3.5.2	Number of drive wheels	140	
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 / h6*	98 in / 98 in
4.8	Seat height/stand height	h7	57 in
4.19	Overall length	I1	195 in
4.20	Length to face of forks	I2	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	p3	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 5
α - Mast/fork carriage tilt, forward	۰	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward	۰	15	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 heigth	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
	٠	FLT 43 15	FLT 45 15	FLT 47 15	FLT 50 10	FLT 55 10	FLT 60 10
α - Mast/fork carriage tilt, forward	•						
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward		15	15	15	10	10	10
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height	٠	15 15	15 15	15 15	10 15	10 15	10 15
Free Lift Triplex (FLT) α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift h3 - Mast lifting height	in	15 15 97.2	15 15 100.2	15 15 102.6	10 15 107.1	10 15 113	10 15 119.9
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift	in in	15 15 97.2 57.3	15 15 100.2 60.2	15 15 102.6 62.6	10 15 107.1 67.1	10 15 113 73	10 15 119.9 79.9
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift h3 - Mast lifting height	in in in	15 15 97.2 57.3 169.3	15 15 100.2 60.2 177.2	15 15 102.6 62.6 185	10 15 107.1 67.1 196.9	10 15 113 73 216.5	10 15 119.9 79.9 236.2
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift h3 - Mast lifting height Residual capacity at max height Residual capacity with hooked-on side shift	in in in Ib	15 15 97.2 57.3 169.3	15 15 100.2 60.2 177.2 9590	15 15 102.6 62.6 185 7716	10 15 107.1 67.1 196.9 6173	10 15 113 73 216.5 3968	10 15 119.9 79.9 236.2 1984

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				
ydraulic kit 4th element				
Rotative Beacon				
Load backrest				
Pneumatic seat				
Sideshift carriage				





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