Technical sheet:

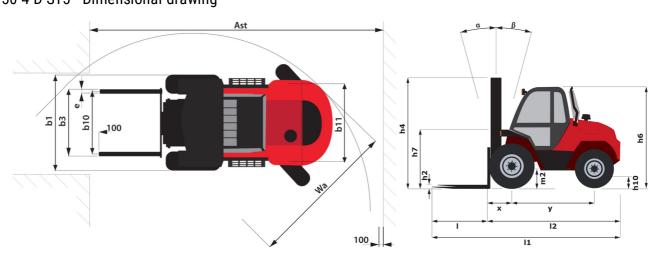
M 50-4 D ST5





	M 50-4 D STS Created on November 1, 2025 a			
	Technical characteristics		Metric	
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	5000 kg	
1.6	Load center of gravity	c	600 mm	
1.8	Load distance, centre of drive axle to fork	x	773 mm	
1.9	Wheelbase	У	2120 mm	
	Weight			
	Standard mast reference of the machine		FVD 37	
2.1	Service weight		8325 kg	
2.2	Weight on front axle (laden) / rear axle (laden)		11520 kg / 1805 kg	
2.3	Weight on front axle (Inladen) / rear axle (Unladen)		3285 kg / 5040 kg	
2.3	Wheels		3203 kg / 3040 kg	
3.1	Tires type		Pneumatic	
3.2	Dimensions of front wheels Dimensions of rear wheels		18-22,5 MPT-06 340/80 R18 XMCL	
3.5	Number of front wheels / rear wheels		2 / 2	
3.5.2	Number of drive wheels	112	4	
3.6	Front wheel gauge	b10	1620 mm	
3.7	Rear wheel gauge	b11	1740 mm	
	Dimensions			
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	2486 mm / 2486 mm	
4.8	Seat height/stand height	h7	1455 mm	
4.19	Overall length	l1	4948 mm	
4.20	Length to face of forks	12	3748 mm	
4.21	Overall width	b1	2080 mm	
4.22	Forks section x width x length	s / e / l	60 mm x 150 mm / 1200 mm	
4.23	Fork carriage ISO 2328 (class/form) A/B		4A	
4.24	Fork carriage width	b3	1670 mm	
4.31	Ground clearance below mast	m1	300 mm	
4.32	Ground clearance at centre of wheelbase	m2	426 mm	
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	6812 mm	
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	6812 mm	
4.35	Turning radius	Wa	4640 mm	
	Performances			
5.1	Travel speed (laden / unladen)		10 km/h / 22 km/h	
5.2	Lifting speed (laden / unladen)		0.40 m/s / 0.40 m/s	
5.3	Lowering speed (laden / unladen)		0.50 m/s / 0.40 m/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 - 2925 cm³	
7.4	Miscellaneous		7 2723 GHI	
8.2	Working hydraulic pressure for attachments		230 bar	
8.3	Oil flow rate for attachments		97 I/min	
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	۰	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward	۰	15	15	15	15	15	15
h1 - Mast lowered height	mm	2670	2770	2870	3020	3270	3520
h3 - Mast lifting height	mm	3300	3500	3700	4000	4500	5000
Residual capacity at max height	kg	5000	5000	5000	5000	3600	2200
Residual capacity with hooked-on side shift at max heigth	kg	4700	4700	4700	4000	4000	3800
Height at max capacity	mm	3300	3500	3700	4000	4000	4000
Height at max capacity with hooked-on sideshift	mm	3300	3500	3700	4000	4000	4000
En a Life Trial ou (ELT)		FIT 40	CIT AS	F17.47	FIT FO	517.55	FIT CO
		FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
	0	FLT 43 15	FLT 45 15	FLT 47 15	FLT 50 10	FLT 55	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	• mm	15 15 2470	15 15 2545	15 15 2605	10 15 2720	10 15 2870	10 15 3045
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift	mm mm	15 15 2470 1455	15 15 2545 1530	15 15 2605 1590	10 15 2720 1705	10 15 2870 1855	10 15 3045 2030
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	mm mm mm	15 15 2470 1455 4300	15 15 2545 1530 4500	15 15 2605 1590 4700	10 15 2720 1705 5000	10 15 2870 1855 5500	10 15 3045 2030 6000
a - 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 at max heigth	mm mm mm kg	15 15 2470 1455 4300	15 15 2545 1530 4500 4350	15 15 2605 1590 4700 3500	10 15 2720 1705 5000 2800	10 15 2870 1855 5500	10 15 3045 2030 6000 900
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift h3 - Mast lifting height	mm mm mm kg	15 15 2470 1455 4300 4500	15 15 2545 1530 4500 4350	15 15 2605 1590 4700 3500	10 15 2720 1705 5000 2800 2100	10 15 2870 1855 5500 1800 2000	10 15 3045 2030 6000 900

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





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