Technical sheet:

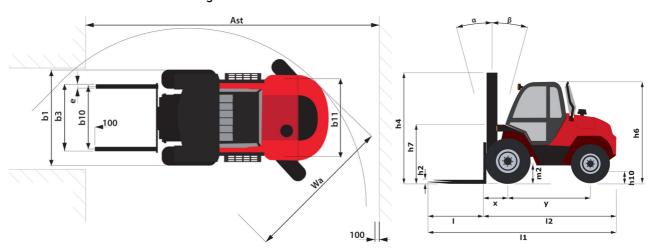
M 50-2 D ST5





		M 50-2 D ST5 U	M 50-2 D ST 5 Created on August 1, 2025 at 6:01 PM 010			
	Technical characteristics		Metric			
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	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	2060 mm			
	Weight					
	Standard mast reference of the machine		FVD 37			
2.1	Service weight		8275 kg			
2.2	Weight on front axle (laden) / rear axle (laden)		11615 kg / 1660 kg			
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3285 kg / 4990 kg			
	Wheels		<u> </u>			
3.1	Tires 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	1600 mm			
3.7	Rear wheel gauge	b11	1640 mm			
	Dimensions					
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	2440 mm / 2440 mm			
4.8	Seat height/stand height	h7	1407 mm			
4.19	Overall length	l1	4948 mm			
4.20	Length to face of forks	12	3748 mm			
4.21	Overall width	b1	2057 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	250 mm			
4.32	Ground clearance at centre of wheelbase	m2	377 mm			
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	5640 mm			
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	5640 mm			
4.35	Tuming radius	Wa	3465 mm			
1100	Performances					
5.1	Travel speed (laden / unladen)		22 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)		6900 daN			
5.7	Gradeability (laden)		51 %			
5.10	Service brake		Hydraulic			
0.10	Transmission type		Torque converter			
	Engine					
7.1	Engine brand / model / norm		Deutz / TCD 2,9 / Stage V			
7.2	I.C. Engine power rating		55 kW			
7.3	Rated speed		2300 rpm			
7.4	Number of cylinders / Capacity of cylinders		4 - 2925 cm³			
	Miscellaneous					
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			
U	at the difference of according to 511. 12 000		, , , ub			

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	۰	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward °		15	15	15	15	15	15
h1 - Mast lowered height	mm	2625	2725	2825	2975	3225	3475
h3 - Mast lifting height	mm	3300	3700	3700	4000	4500	5000
Residual capacity at max height	kg	5000	5000	5000	5000	4750	3500
Residual capacity with hooked-on side shift at max heigth	kg	4700	4700	4700	4700	4400	
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	
Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	۰	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward	۰	15	15	15	15	15	15
h1 - Mast lowered height	mm	2425	2500	2560	2675	2825	3000
h2 - Mast free lift	mm	1455	1530	1590	1705	1855	2030
h3 - Mast lifting height	mm	4300	4500	4700	5000	5500	6000
Residual capacity at max height	kg		4500	3500	2000	2000	
Residual capacity with hooked-on side shift at max heigth	kg	4400			3000	1600	250
Height at max capacity	mm	2500	4000	4000	3700	5500	2500
Height at max capacity with hooked-on sideshift	mm	3500			3700	3700	3200





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