Technical sheet:

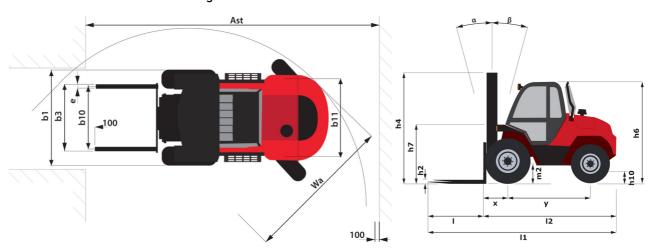
## M 50-2 D ST5





		M 50-2 D ST5 Created	d on December 12, 2025 at 6:21 PM (
	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	С	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
2.3	Wheels		3203 kg / 4770 kg
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	110	2
3.6	Front wheel gauge	b10	1600 mm
3.7	Rear wheel gauge	b11	1640 mm
4.7	Dimensions  Using the foundation of the state of law analysis of the state of the s	hc / hc+	2440 mm / 2440 mm
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	
4.8	Seat height/stand height	h7	1407 mm
4.19	Overall length	l1	4948 mm
4.20	Length to face of forks	I2	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	Turning radius	Wa	3465 mm
	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
	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 cm <sup>3</sup>
7			
7.4	Miscellaneous		
	Miscellaneous  Working hydraulic pressure for attachments		230 bar
8.2 8.3	Working hydraulic pressure for attachments  Oil flow rate for attachments		230 bar 97 I/min

## 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	۰	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
	•	<b>FLT 43</b> 15	<b>FLT 45</b>	<b>FLT 47</b>	<b>FLT 50</b>	<b>FLT 55</b>	FLT 60 10
α - Mast/fork carriage tilt, forward	0						
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	۰	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 2425	15 15 2500	15 15 2560	10 15 2675	10 15 2825	10 15 3000
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	15 15 2425 1455	15 15 2500 1530	15 15 2560 1590	10 15 2675 1705	10 15 2825 1855	10 15 3000 2030
α - Mast/fork carriage tilt, forward β - Mast/fork carriage tilt, backward h1 - Mast lowered height h2 - Mast free lift	mm mm mm	15 15 2425 1455	15 15 2500 1530 4500	15 15 2560 1590 4700	10 15 2675 1705 5000	10 15 2825 1855 5500	10 15 3000 2030
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	mm mm mm kg	15 15 2425 1455 4300	15 15 2500 1530 4500	15 15 2560 1590 4700	10 15 2675 1705 5000 2000	10 15 2825 1855 5500 2000	10 15 3000 2030 6000





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