Technical sheet :

## **M 50-2 D ST5**

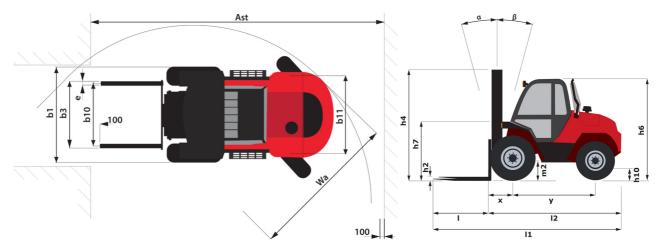




	Technical characteristics	
1.1	Manufacturer	
1.2	Model Name	
1.3	Power source	
1.4	Operator type	
1.5	Max. capacity	Q
1.6	Load center of gravity	С
1.8	Load distance, centre of drive axle to fork	х
1.9	Wheelbase	у
	Weight	
	Standard mast reference of the machine	
2.1	Service weight	
2.2	Weight on front axle (laden) / rear axle (laden)	
2.3	Weight on front axle (Unladen) / rear axle (Unladen)	
	Wheels	
3.1	Tires type	
3.2	Dimensions of front wheels	
3.3	Dimensions of rear wheels	
3.5	Number of front wheels / rear wheels	
3.5.2	Number of drive wheels	
3.6	Front wheel gauge	b10
3.7	Rear wheel gauge	b10
5.7	Dimensions	011
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*
4.7	Seat height/stand height	h7
4.19	Overall length	1
4.19	Length to face of forks	2
4.20	Overall width	b1
4.21	Forks section x width x length	s/e/l
4.22	Fork carriage ISO 2328 (class/form) A/B	3/6/1
4.23	Fork carriage width	b3
	Ground clearance below mast	m1
4.31 4.32	Ground clearance below mast	m2
4.32		
	Aisle width for 1000 x 1200 pallet widthways	Ast
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast
4.35	Tuming radius	Wa
E 1	Performances	
5.1	Travel speed (laden / unladen)	
5.2	Lifting speed (laden / unladen)	
5.3	Lowering speed (laden / unladen)	
5.5	Drawbar pull (Laden)	
5.7	Gradeability (laden)	
5.10	Service brake	
	Transmission type	
	Engine	
7.1	Engine brand / model / norm	
7.2	I.C. Engine power rating	
7.3	Rated speed	
7.4	Number of cylinders / Capacity of cylinders	
	Miscellaneous	
8.2	Working hydraulic pressure for attachments	
8.3	Oil flow rate for attachments	
8.4	Sound level at the driver's ear according to DIN 12 053	

M 50-2 D ST 5	Created on April 6, 2025 at 6:42 PM UTC
	Metric
	MANITOU
	M 50-2 D ST5
	Diesel
	Seated
Q	5000 kg
C	600 mm
x	773 mm
у	2060 mm
	FVD 37
	8275 kg
	11615 kg / 1660 kg
	3285 kg / 4990 kg
	Pneumatic
	18-19,5 18PR A224
	10R17,5 G291 GY
	2 / 2
	2
b10	1600 mm
b11	1640 mm
h6 / h6*	2440 mm / 2440 mm
h7	1407 mm
l1	4948 mm
12	3748 mm
b1	2057 mm
s / e / l	60 mm x 150 mm / 1200 mm
	4A
b3	1670 mm
m1	250 mm
m2	377 mm
Ast	5640 mm
Ast	5640 mm
Wa	3465 mm
	22 km/h / 22 km/h
	0.40 m/s / 0.40 m/s
	0.50 m/s / 0.40 m/s
	6900 daN
	51 %
	Hydraulic
	Torque converter
	Deutz / TCD 2,9 / Stage V
	55 kW
	2300 rpm
	4 - 2925 cm³
	220 bar
	230 bar 97 I/min
	78 dB
	70 UD

## 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
$\beta$ - 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
α - Mast/fork carriage tilt, forward	۰	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward	٥	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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