

Technical sheet :

# M 40-2 D ST5

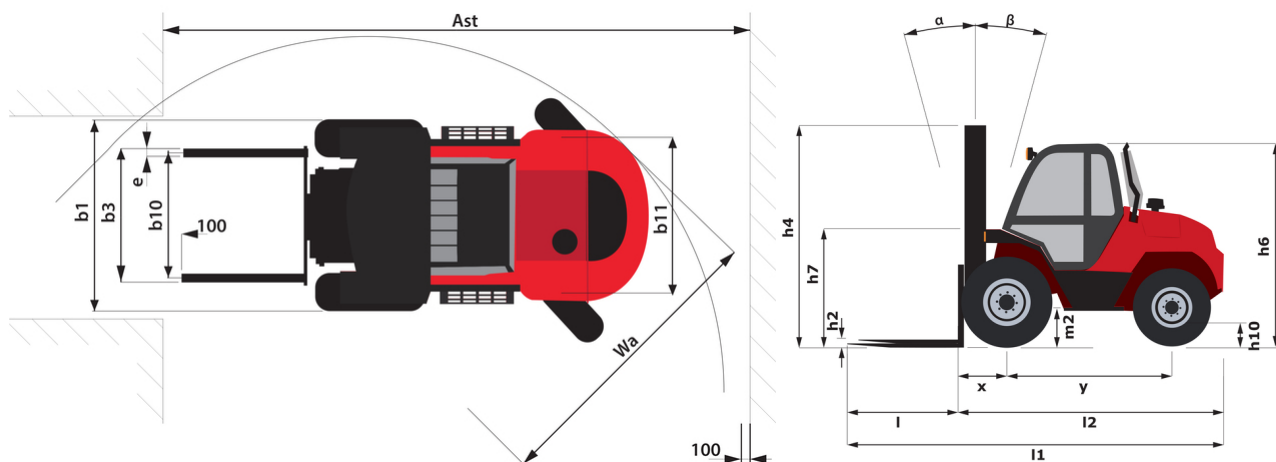
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 **MANITOU**  
HANDLING YOUR WORLD

	Technical characteristics		Imperial
1.1	Manufacturer		MANITOU
1.2	Model Name		M 40-2 D ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	8818 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	30 in
1.9	Wheelbase	y	81 in
	<b>Weight</b>		
	Standard mast reference of the machine		FVD 37
2.1	Service weight		15245 lb
2.2	Weight on front axle (laden) / rear axle (laden)		20007 lb / 4057 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		5787 lb / 9458 lb
	<b>Wheels</b>		
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	63 in
3.7	Rear wheel gauge	b11	65 in
	<b>Dimensions</b>		
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	96 in / 96 in
4.8	Seat height/stand height	h7	55 in
4.19	Overall length	l1	191 in
4.20	Length to face of forks	l2	144 in
4.21	Overall width	b1	81 in
4.22	Forks section x width x length	s / e / l	6 in x 6 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		3A
4.24	Fork carriage width	b3	66 in
4.31	Ground clearance below mast	m1	10 in
4.32	Ground clearance at centre of wheelbase	m2	15 in
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	219 in
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	219 in
4.35	Turning radius	Wa	134 in
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		14 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)		6900 daN
5.10	Service brake		Hydraulic
	Transmission type		Torque converter
	<b>Engine</b>		
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 - 178 in³
	<b>Miscellaneous</b>		
8.2	Working hydraulic pressure for attachments		3046 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 40-2 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	°	15	15	15	15	15	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15	15
h1 - Mast lowered height	in	103.3	107.3	111.2	117.1	127	136.8
h3 - Mast lifting height	in	129.9	137.8	145.7	157.5	177.2	196.9
Residual capacity at max height	lb	8818	8818	8818	8818	8818	8818
Residual capacity with hooked-on side shift at max height	lb	8818	8818	8818	8818	8598	7937
Height at max capacity	in	129.9	137.8	145.7	157.5	177.2	196.9
Height at max capacity with hooked-on sideshift	in	129.9	137.8	145.7	157.5	165.4	157.5

Free Lift Triplex (FLT)		FLT 43	FLT 45	FLT 47	FLT 50	FLT 55	FLT 60
α - Mast/fork carriage tilt, forward	°	15	15	15	10	10	10
β - Mast/fork carriage tilt, backward	°	15	15	15	15	15	15
h1 - Mast lowered height	in	95.5	98.4	100.8	105.3	111.2	118.1
h2 - Mast free lift	in	57.3	60.2	62.6	67.1	73	79.9
h3 - Mast lifting height	in	169.3	177.2	185	196.9	216.5	236.2
Residual capacity at max height	lb	8818	8818	6614		5512	
Residual capacity with hooked-on side shift at max height	lb		8047	8047		5512	
Height at max capacity	in	169.3	177.2	165.4	98.4	177.2	98.4
Height at max capacity with hooked-on sideshift	in		137.8	165.4		129.9	



**Head Office**

B.P. 249 - 430 rue de l'Aubinière

44150 Ancenis Cedex - France

Tel: +33 (0)2 40 09 10 11 - Fax: +33 (0)2 40 09 10 97

[www.manitou.com](http://www.manitou.com)



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