Technical sheet:

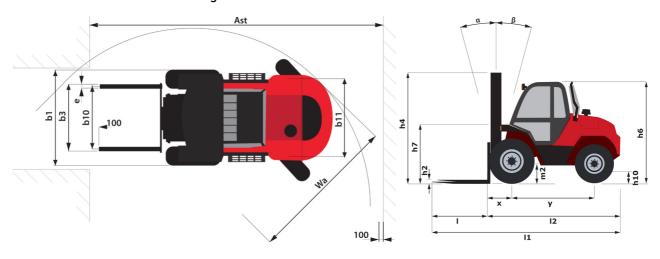
M 50-4 D ST5





Technical characteristics		Imperial
Manufacturer		MANITOU
Model Name		M 50-4 D ST5
Power source		Diesel
Operator type		Seated
Max. capacity	Q	11023 lb
Load center of gravity	C	24 in
Load distance, centre of drive axle to fork	X	30 in
Wheelbase	у	83 in
Weight		
Service weight		18353 lb
Weight on front axle (laden) / rear axle (laden)		25397 lb / 3979 lb
Weight on front axle (Unladen) / rear axle (Unladen)		7242 lb / 11111 lb
Wheels		72.2.3, 1111.3
Tires type		Pneumatic
Dimensions of front wheels		18-22,5 MPT-06
Dimensions of rear wheels		340/80 R18 XMCL
Number of front wheels / rear wheels		2 / 2
Number of drive wheels		4
Front wheel gauge	b10	64 in
Rear wheel gauge	b11	69 in
Dimensions	DII	09 111
	h6 / h6+	00 in / 00 in
Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	98 in / 98 in
Seat height/stand height	h7	57 in
Overall length	l1	195 in
Length to face of forks	12	148 in
Overall width	b1	82 in
Forks section x width x length	s / e / l	2 in x 6 in / 47 in
Fork carriage ISO 2328 (class/form) A/B		4A
Fork carriage width	b3	66 in
Ground clearance below mast	m1	12 in
Ground clearance at centre of wheelbase	m2	17 in
Aisle width for 1000 x 1200 pallet widthways	Ast	268 in
Aisle width for 800 x 1200 pallet lengthways	Ast	268 in
Turning radius	Wa	183 in
Performances		
Travel speed (laden / unladen)		6 mph / 14 mph
Lifting speed (laden / unladen)		1 ft/s / 1 ft/s
Lowering speed (laden / unladen)		2 ft/s / 1 ft/s
Drawbar pull (Laden)		11000 daN
Service brake		Hydraulic
Engine		
I.C. Engine power rating		55 kW
Engine brand / model / norm		Deutz / TCD 2,9 / Stage V
Rated speed		2300 rpm
Number of cylinders / Capacity of cylinders		4 - 178 in³
Miscellaneous		
Working hydraulic pressure for attachments		3336 PSI
Oil flow rate for attachments		26 US gpm
Sound level at the driver's ear according to DIN 12 053		78 dB

M 50-4 D ST5 - Dimensional drawing



73

216.5

3968

4409

157.5

157.5

79.9

236.2

1984

1984

157.5

157.5

Characteristics of masts and residual capacities

h2 - Mast free lift

h3 - Mast lifting height

Height at max capacity

Residual capacity at max height

Residual capacity with hooked-on side shift at max heigth

Height at max capacity with hooked-on sideshift

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	15
β - Mast/fork carriage tilt, backward	۰	15	15	15	15	15	15
h1 - Mast lowered height	in	105.1	109.1	113	118.9	128.7	138.6
h3 - Mast lifting height	in	129.9	137.8	145.7	157.5	177.2	196.9
Residual capacity at max height	lb	11023	11023	11023	11023	7937	4850
Residual capacity with hooked-on side shift at max heigth	lb	10362	10362	10362	8818	8818	8378
Height at max capacity	in	129.9	137.8	145.7	157.5	157.5	157.5
Height at max capacity with hooked-on sideshift	in	129.9	137.8	145.7	157.5	157.5	157.5
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	in	97.2	100.2	102.6	107.1	113	119.9

60.2

177.2

9590

9039

157.5

157.5

62.6

185

7716

7937

157.5

157.5

67.1

196.9

6173

4630

157.5

157.5

57.3

169.3

9921

149.6

in

lb

lb

in

in





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