

Technical sheet :

# **MC 25-4 ST5**

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	Technical characteristics		Imperial
1.1	Manufacturer		Manitou
1.2	Model Name		MC 25-4 ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	5512 lb
1.6	Load center of gravity	c	20 in
1.8	Load distance, centre of drive axle to fork	x	24 in
1.9	Wheelbase	y	75 in
	<b>Weight</b>		
	Standard mast reference of the machine		FVD 33
2.1	Service weight		9458 lb
2.2	Weight on front axle (laden) / rear axle (laden)		13162 lb / 1808 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		3924 lb / 5534 lb
	<b>Wheels</b>		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		12,5/80-18/12 SL R4
3.3	Dimensions of rear wheels		27x10-12 SKS
3.5	Number of front wheels / rear wheels		2 / 2
3.5.2	Number of drive wheels		4
3.6	Front wheel gauge	b10	46 in
3.7	Rear wheel gauge	b11	46 in
	<b>Dimensions</b>		
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	85 in / 78 in
4.8	Seat height/stand height	h7	43 in
4.19	Overall length	l1	165 in
4.20	Length to face of forks	l2	120 in
4.21	Overall width	b1	57 in
4.22	Forks section x width x length	s / e / l	2 in x 4 in / 47 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	50 in
4.31	Ground clearance below mast	m1	12 in
4.32	Ground clearance at centre of wheelbase	m2	12 in
4.35	Turning radius	Wa	134 in
	<b>Performances</b>		
5.1	Travel speed (laden / unladen)		7 mph / 15 mph
5.2	Lifting speed (laden / unladen)		2 ft/s / 2 ft/s
5.3	Lowering speed (laden / unladen)		2 ft/s / 0.98 ft/s
5.5	Drawbar pull (Laden)		3100 daN
5.7	Gradeability (laden)		51 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Transmission type		Hydrostatic
	<b>Engine</b>		
7.1	Engine brand / model / norm		Kubota / D1803 CRT E5B / Stage V
7.2	I.C. Engine power rating		37 kW
7.3	Rated speed		2700 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 111 in³
	<b>Miscellaneous</b>		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		2901 PSI
8.3	Oil flow rate for attachments		11 US gpm

## MC 25-4 ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 45
α - Mast/fork carriage tilt, forward	°	12	12	12
β - Mast/fork carriage tilt, backward	°	10	10	10
h1 - Mast lowered height	in	92	102.3	119.6
h2 - Mast free lift	in	4.4	4.4	4.4
h3 - Mast lifting height	in	129.9	145.7	177.2
h4 - Mast extended height	in	161	176.8	208.3
Residual capacity at max height	lb	5512	3197	1764
Residual capacity with hooked-on side shift at max height	lb	5512	3197	1764
Height at max capacity	in	118.1	118.1	118.1
Height at max capacity with hooked-on sideshift	in	118.1	118.1	118.1

Free Lift Triplex (FLT)		FLT 34	FLT 37	FLT 40	FLT 43	FLT 47	FLT 55
α - Mast/fork carriage tilt, forward	°	12	12	12	12	12	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	10	6
h1 - Mast lowered height	in	78.3	82.2	86.1	92	96	109.8
h2 - Mast free lift	in	47.6	51.6	55.5	59.4	65.4	75.6
h3 - Mast lifting height	in	133.9	145.7	157.5	169.3	185	216.5
h4 - Mast extended height	in	166.8	178.6	190.4	203.5	218	252.3
Residual capacity at max height	lb	4189	3307	2976	1764	1543	1102
Residual capacity with hooked-on side shift at max height	lb	3968	3197	2976	1543	1543	11023
Height at max capacity	in	118.1	114.2	118.1	118.1	118.1	118.1
Height at max capacity with hooked-on sideshift	in	118.1	118.1	118.1	118.1	118.1	118.1

Full Visibility Triplex (FVT)		FVT 33
α - Mast/fork carriage tilt, forward	°	12
β - Mast/fork carriage tilt, backward	°	10
h1 - Mast lowered height	in	73.9
h2 - Mast free lift	in	4.9
h3 - Mast lifting height	in	129.9
h4 - Mast extended height	in	160.6
Height at max capacity	in	98.4



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