

Technical sheet :

# **MC 18-2 ST5**

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Technical characteristics			Metric	Imperial
1.1	Manufacturer		Manitou	Manitou
1.2	Model Name		MC 18-2 ST5	MC 18-2 ST5
1.3	Power source		Diesel	Diesel
1.4	Operator type		Seated	Seated
1.5	Max. capacity	Q	1800 kg	3968 lb
1.6	Load center of gravity	c	500 mm	20 in
1.8	Load distance, centre of drive axle to fork	x	616 mm	24 in
1.9	Wheelbase	y	1900 mm	75 in
Weight				
	Standard mast reference of the machine		FVD 33	FVD 33
2.1	Service weight		3440 kg	7584 lb
2.2	Weight on front axle (laden) / rear axle (laden)		4600 kg / 640 kg	10141 lb / 1411 lb
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1590 kg / 1850 kg	3505 lb / 4079 lb
Wheels				
3.1	Tires type		Pneumatic	Pneumatic
3.2	Dimensions of front wheels		12.5/80 - 18/12 SL R4	12.5/80 - 18/12 SL R4
3.3	Dimensions of rear wheels		7.00-12/12 ED PLUS	7.00-12/12 ED PLUS
3.5	Number of front wheels / rear wheels		2 / 2	2 / 2
3.5.2	Number of drive wheels		2	2
3.6	Front wheel gauge	b10	1159 mm	46 in
3.7	Rear wheel gauge	b11	1112 mm	44 in
Dimensions				
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6 / h6*	2155 mm / 1990 mm	85 in / 78 in
4.8	Seat height/stand height	h7	1034 mm	41 in
4.19	Overall length	l1	4100 mm	161 in
4.20	Length to face of forks	l2	2950 mm	116 in
4.21	Overall width	b1	1450 mm	57 in
4.22	Forks section x width x length	s / e / l	35 mm x 100 mm / 1150 mm	1 in x 4 in / 45 in
4.23	Fork carriage ISO 2328 (class/form) A/B		2A	2A
4.24	Fork carriage width	b3	1260 mm	50 in
4.31	Ground clearance below mast	m1	300 mm	12 in
4.32	Ground clearance at centre of wheelbase	m2	320 mm	13 in
4.35	Turning radius	Wa	2585 mm	102 in
Performances				
5.1	Travel speed (laden / unladen)		12 km/h / 23.50 km/h	7 mph / 15 mph
5.2	Lifting speed (laden / unladen)		0.44 m/s / 0.44 m/s	1 ft/s / 1 ft/s
5.3	Lowering speed (laden / unladen)		0.40 m/s / 0.40 m/s	1 ft/s / 1 ft/s
5.5	Drawbar pull (Laden)		1000 daN	1000 daN
5.7	Gradeability (laden)		19 %	19 %
5.10	Service brake		Hydraulic brakes by loss of pressure	Hydraulic brakes by loss of pressure
	Transmission type		Hydrostatic	Hydrostatic
Engine				
7.1	Engine brand / model / norm		Kubota / D1803 CR E5B / Stage V	Kubota / D1803 CR E5B / Stage V
7.2	I.C. Engine power rating		27 kW	27 kW
7.3	Rated speed		2700 rpm	2700 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 1826 cm³	3 - 111 in³
Miscellaneous				
8.1	Type of drive control		Electronic	Electronic
8.2	Working hydraulic pressure for attachments		160 bar	2321 PSI
8.3	Oil flow rate for attachments		31 l/min	8 US gpm

## MC 18-2 ST5 - Dimensional drawing



# Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork camiage tilt, forward	°	12	12	12	12
β - Mast/fork camiage tilt, backward	°	10	10	10	10
h1 - Mast lowered height	in (mm)	92.4 (2348)	102.7 (2608)	110.2 (2798)	120 (3048)
h2 - Mast free lift	in (mm)	3.3 (85)	3.3 (85)	3.3 (85)	3.3 (85)
h3 - Mast lifting height	in (mm)	129.9 (3300)	145.7 (3700)	157.5 (4000)	177.2 (4500)
h4 - Mast extended height	in (mm)	158.2 (4018)	174.3 (4428)	187.7 (4768)	207.4 (5268)
Residual capacity at max height	lb (kg)	3968 (1800)	3968 (1800)		2425 (1100)
Residual capacity with hooked-on side shift at max heigh	lb (kg)	3968 (1800)	3968 (1800)		2425 (1100)
Height at max capacity	in (mm)	129.9 (3300)	145.7 (3700)	98.4 (2500)	141.7 (3600)
Height at max capacity with hooked-on sideshift	in (mm)	129.9 (3300)	145.7 (3700)		141.7 (3600)

Free Lift Triplex (FLT)		FLT 37	FLT 43	FLT 47	FLT 55
α - Mast/fork camiage tilt, forward	°	12	12	12	6
β - Mast/fork camiage tilt, backward	°	10	10	10	6
h1 - Mast lowered height	in (mm)	78.7 (1998)	86.5 (2198)	92.4 (2348)	102.7 (2608)
h2 - Mast free lift	in (mm)	51.4 (1305)	59.3 (1505)	65.2 (1655)	75.4 (1915)
h3 - Mast lifting height	in (mm)	145.7 (3700)	169.3 (4300)	185 (4700)	216.5 (5500)
h4 - Mast extended height	in (mm)	175.3 (4453)	198.9 (5053)	214.7 (5453)	246.2 (6253)
Residual capacity at max height	lb (kg)	3527 (1600)	2205 (1000)	1323 (600)	
Residual capacity with hooked-on side shift at max heigh	lb (kg)	3417 (1550)	2205 (1000)	1323 (600)	
Height at max capacity	in (mm)	133.9 (3400)	133.9 (3400)	133.9 (3400)	98.4 (2500)
Height at max capacity with hooked-on sideshift	in (mm)	129.9 (3300)	133.9 (3400)	133.9 (3400)	

Full Visibility Triplex (FVT)		FVT 33
α - Mast/fork camiage tilt, forward	°	12
β - Mast/fork camiage tilt, backward	°	10
h1 - Mast lowered height	in (mm)	74.3 (1888)
h2 - Mast free lift	in (mm)	5.3 (135)
h3 - Mast lifting height	in (mm)	129.9 (3300)
h4 - Mast extended height	in (mm)	159.4 (4048)
Residual capacity at max height	lb (kg)	3968 (1800)
Residual capacity with hooked-on side shift at max heigh	lb (kg)	3968 (1800)
Height at max capacity	in (mm)	129.9 (3300)
Height at max capacity with hooked-on sideshift	in (mm)	129.9 (3300)



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