

Technical sheet :

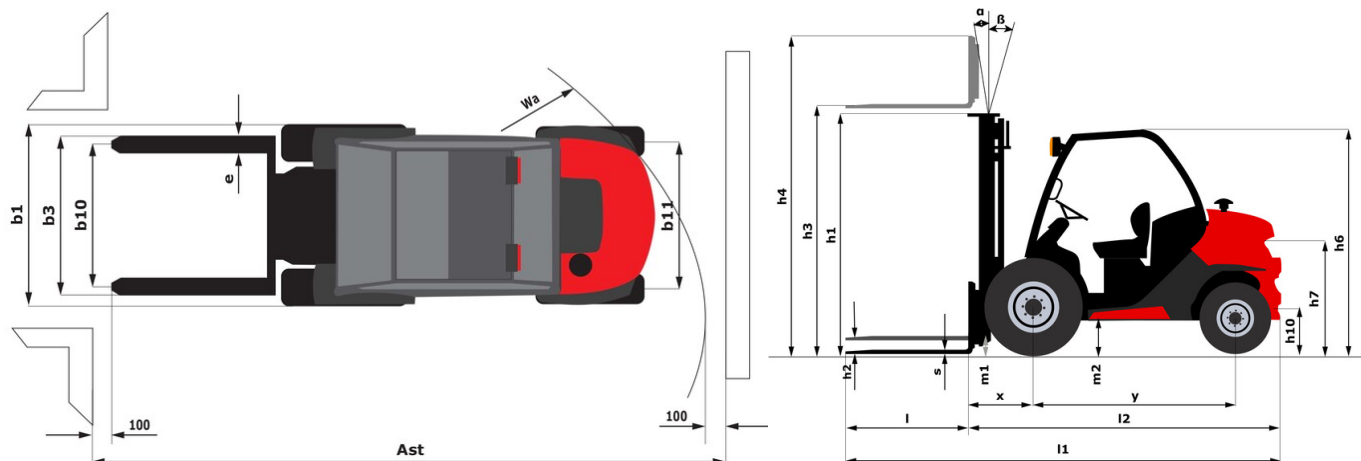
MC 18-4 ST5



 **MANITOU**
HANDLING YOUR WORLD

	Technical characteristics		Metric
1.1	Manufacturer		Manitou
1.2	Model Name		MC 18-4 ST5
1.3	Power source		Diesel
1.4	Operator type		Seated
1.5	Max. capacity	Q	1800 kg
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	620 mm
1.9	Wheelbase	y	2000 mm
	Weight		
	Standard mast reference of the machine		FVD 33
2.1	Service weight		3606 kg
2.2	Weight on front axle (laden) / rear axle (laden)		4507 kg / 899 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1697 kg / 1909 kg
	Wheels		
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	1159 mm
3.7	Rear wheel gauge	b11	1176 mm
	Dimensions		
4.7	Height of overhead guard (cabin) / Overall height of low overhead guard (Buggie version)	h6	2176 mm / 2028 mm
4.8	Seat height/stand height	h7	1130 mm
4.19	Overall length	l1	4216 mm
4.20	Length to face of forks	l2	3066 mm
4.21	Overall width	b1	1450 mm
4.22	Forks section x width x length	s / e / l	35 mm x 100 mm / 1150 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1260 mm
4.31	Ground clearance below mast	m1	300 mm
4.32	Ground clearance at centre of wheelbase	m2	315 mm
4.33	Aisle width for 1000 x 1200 pallet widthways	Ast	5256 mm
4.35	Turning radius	Wa	3433 mm
	Performances		
5.1	Travel speed (laden / unladen)		10 km/h / 20 km/h
5.2	Lifting speed (laden / unladen)		0.48 m/s / 0.48 m/s
5.3	Lowering speed (laden / unladen)		0.50 m/s / 0.30 m/s
5.5	Drawbar pull (Laden)		2000 daN
5.7	Gradeability (laden)		41 %
5.10	Service brake		Hydraulic brakes by loss of pressure
	Transmission type		Hydrostatic
	Engine		
7.1	Engine brand / model / norm		Kubota / D1803 CR E5B / Stage V
7.2	Engine power (kW)		28 kW
7.3	Rated speed		2800 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 1826 cm³
	Miscellaneous		
8.1	Type of drive control		Electronic
8.2	Working hydraulic pressure for attachments		165 bar
8.3	Oil flow rate for attachments		38 l/min

MC 18-4 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 33	FVD 37	FVD 40	FVD 45
α - Mast/fork carriage tilt, forward	°	12	12	12	12
β - Mast/fork carriage tilt, backward	°	10	10	10	10
h1 - Mast lowered height	mm	2348	2608	2798	3048
h2 - Mast free lift	mm	85	85	85	85
h3 - Mast lifting height	mm	3300	3700	4000	4500
h4 - Mast extended height	mm	4018	4428	4768	5268
Residual capacity at max height	kg	1800			
Residual capacity with hooked-on side shift at max heighth	kg	1640			
Height at max capacity	mm	3300			
Height at max capacity with hooked-on sideshift	mm	3300			

Free Lift Triplex (FLT)		FLT 37	FLT 40	FLT 43	FLT 47	FLT 55
α - Mast/fork carriage tilt, forward	°	12	12	12	12	6
β - Mast/fork carriage tilt, backward	°	10	10	10	10	6
h1 - Mast lowered height	mm	1998	2098	2198	2348	2608
h2 - Mast free lift	mm	1305	1405	1505	1655	1915
h3 - Mast lifting height	mm	3700	4000	4300	4700	5500
h4 - Mast extended height	mm	4453	4753	5053	5453	6253
Residual capacity at max height	kg	1800				
Residual capacity with hooked-on side shift at max heighth	kg	1640				
Height at max capacity	mm	3700				
Height at max capacity with hooked-on sideshift	mm	3700				

Full Visibility Triplex (FVT)		FVT 33
α - Mast/fork carriage tilt, forward	°	12
β - Mast/fork carriage tilt, backward	°	10
h1 - Mast lowered height	mm	1888
h2 - Mast free lift	mm	135
h3 - Mast lifting height	mm	3300
h4 - Mast extended height	mm	4048

Equipment

Standard
Differential Lock
Distributor with lever in cross - 2 hydraulic movments
Ecostop
Front tires - SOLIDEAL - SL-R4 - 12.5/80 R18 12-Ply - Rough terrain
Mechanical suspension vinyl seat - PILOT
Rear tires - SOLIDEAL - XTRA SKS - 27x10-12 R12 12-Ply - Rough terrain
Optional
4th hydraulic movement
Air suspension fabric seat - GRAMMER
Electrovalve 3 hydraulicfunctions on the_top of theboom
Enclosed cab
Enclosed cab buggy version
Joystick Switch and Move (JSM)
LED Rotative Beacon
LED front work lights (x2)
Load backrest
Open cab buggy version
Radio



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