

Technical sheet :

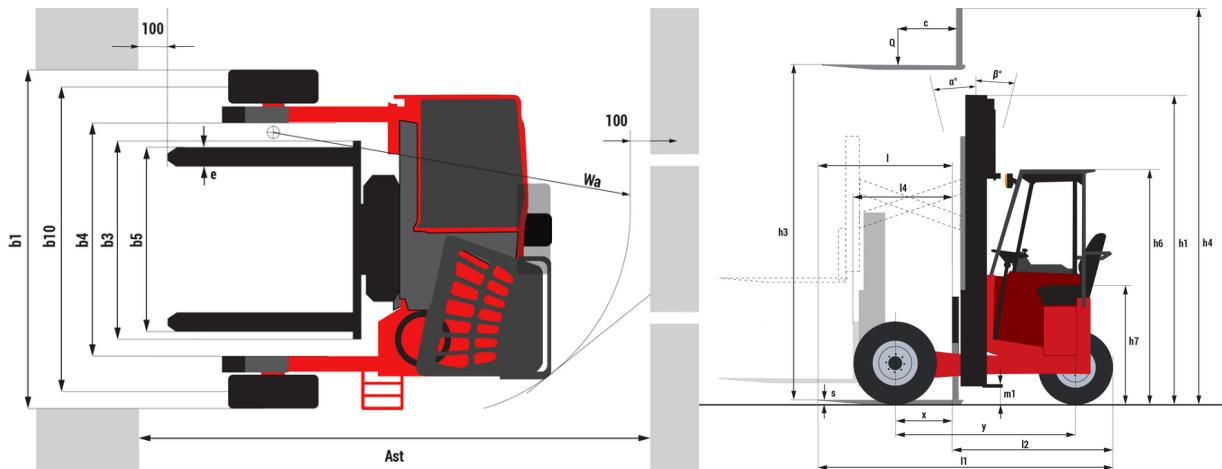
# TMM 20 ST5



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Technical characteristics		Metric	
1.1	Manufacturer	MANITOU	
1.2	Model Name	TMM 20 ST5	
1.2.1	Reach out equipment	Pantograph	
1.3	Power source	Diesel	
1.4	Operator type	Seated	
1.5	Max. capacity	2000 kg	
1.6	Load center of gravity	c	500 mm
1.8	Load distance, centre of drive axle to fork	x	490 mm
1.9	Wheelbase	y	1598 mm
<b>Weight</b>		<b>FWD 30</b>	
2.1	Standard mast reference of the machine		2290 kg
2.2	Service weight		
2.3	Weight on front axle (laden) / rear axle (laden)		3050 kg / 1240 kg
Weight on front axle (Unladen) / rear axle (Unladen)		1050 kg / 1240 kg	
<b>Wheels</b>		<b>Pneumatic</b>	
3.1	Tires type		27x10-12 IC30
3.2	Dimensions of front wheels		27x10-12 IC30
3.3	Dimensions of rear wheels		
3.5	Number of front wheels / rear wheels		2 / 1
3.5.2	Drive wheels (front / rear)		2 / 1
3.6	Front wheel gauge	b10	2151 mm
<b>Dimensions</b>		<b>h3</b>	
4.4	Max. lifting height		4200 mm
4.7	Height of overhead guard (cabin)		2120 mm
4.8	Seat height/stand height		1070 mm
4.19	Overall length		2650 mm
4.21	Overall width		2406 mm
4.22	Forks section / width / length		40 mm x 122 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width		1260 mm
4.26	Distance between support arms		1165 mm
4.26	Distance between wheel arms/loading surfaces		1600 mm
4.28	Maximum horizontal extension at COG 600		1000 mm
4.32	Ground clearance at centre of wheelbase		272 mm
4.34	Aisle width for 800 x 1200 pallet lengthways		3363 mm
4.35	Turning radius		2463 mm
<b>Performances</b>		<b>h6</b>	
5.1	Travel speed (laden / unladen)		9.40 km/h - 9.50 km/h
5.2	Lifting speed (laden / unladen)		0.26 m/s / 0.24 m/s
5.3	Lowering speed (laden / unladen)		0.38 m/s / 0.24 m/s
5.7	Gradeability (laden / unladen)		56 % / 51 %
5.9	Acceleration time (laden / unladen)		4.10 s / 2.60 s
5.10	Service brake		Hydraulic brakes by loss of pressure
Transmission type		Hydrostatic	
<b>Engine</b>		<b>Kubota - Stage V / D1105-E4B-MNT-2</b>	
7.1	Engine brand / norm / model		25 Hp / 18.50 kW
7.2	Engine power (Hp / kW)		3000 rpm
7.3	Rated speed		3 - 1123 cm <sup>3</sup>
7.4	Number of cylinders / Capacity of cylinders		
<b>Miscellaneous</b>		<b>Cable</b>	
8.1	Type of drive control		190 bar
8.2	Working hydraulic pressure for attachments		43 l/min
8.3	Oil flow rate for attachments		
8.4	Sound level at the driver's ear according to DIN 12 053		84 dB

## TMM 20 ST5 - Dimensional drawing



## Characteristics of masts and residual capacities

Full Visibility Duplex (FVD)		FVD 30	FVD 36	FVD 42
Residual Capacity (Maximum Height & LC = 500 mm)		h1 - Mast lowered height mm	2352	2702
	Simple Reach	h3 - Mast lifting height mm	3000	3600
	Double Reach	h4 - Mast extended height mm	4455	5055
	Simple Reach	Pantograph reach in kg	2000	2000
	Double Reach	Pantograph reach out with stabilizers kg	1750	1750
	Simple Reach	Pantograph reach out without stabilizers kg	1050	1050
	Double Reach	Telescopic forks reach in kg	2000	2000
	Simple Reach	Telescopic Forks reach out with stabilizers kg	1300	1300
	Double Reach	Telescopic Forks reach out without stabilizers kg	1100	1100
	Simple Reach	Pantograph & TF reach in kg	2000	2000
	Double Reach	Pantograph & TF reach out with stabilizers kg	1100	1100
	Simple Reach	Pantograph & TF reach out without stabilizers kg	550	550



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