

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	Q	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>		
	Standard mast reference of the machine		FVD 30
2.1	Service weight		2290 kg
2.2	Weight on front axle (laden) / rear axle (laden)		3050 kg / 1240 kg
2.3	Weight on front axle (Unladen) / rear axle (Unladen)		1050 kg / 1240 kg
	<b>Wheels</b>		
3.1	Tires type		Pneumatic
3.2	Dimensions of front wheels		27x10-12 IC30
3.3	Dimensions of rear wheels		27x10-12 IC30
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>		
4.4	Max. lifting height	h3	4200 mm
4.7	Height of overhead guard (cabin)	h6	2120 mm
4.8	Seat height/stand height	h7	1070 mm
4.19	Overall length	l1	2650 mm
4.21	Overall width	b1	2406 mm
4.22	Forks section / width / length	s / e / l	40 mm x 122 mm x 1200 mm
4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.24	Fork carriage width	b3	1260 mm
4.26	Distance between support arms	b5	1165 mm
4.26	Distance between wheel arms/loading surfaces	b4	1600 mm
4.28	Maximum outreach		1000 mm
4.32	Ground clearance at centre of wheelbase	m2	272 mm
4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3363 mm
4.35	Turning radius	Wa	2463 mm
	<b>Performances</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>		
7.1	Engine brand / norm / model		Kubota - Stage V / D1105-E4B-MNF-2
7.2	I.C. Engine power rating		18.50 kW
7.3	Rated speed		3000 rpm
7.4	Number of cylinders / Capacity of cylinders		3 - 1123 cm³
	<b>Miscellaneous</b>		
8.1	Type of drive control		Cable
8.2	Working hydraulic pressure for attachments		190 bar
8.3	Oil flow rate for attachments		43 l/min
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

Residual Capacity (Maximum Height & LC = 600 mm)	Full Visibility Duplex (FVD)			FVD 30			FVD 36		FVD 42	
				2352			2702		3090	
				3000			3600		4200	
				4455			5055		5695	
	Simple Reach	Pantograph reach in	kg	2000			2000		2500	
		Pantograph reach out with stabilizers	kg	1750			1750			
		Pantograph reach out without stabilizers	kg	1050			1050			
		Telescopic forks reach in	kg	2000			2000			
		Telescopic Forks reach out with stabilizers	kg	1300			1300			
		Telescopic Forks reach out without stabilizers	kg	1100			1100			
	Double Reach	Pantograph & TF reach in	kg	2000			2000			
		Pantograph & TF reach out with stabilizers	kg	1100			1100			
		Pantograph & TF reach out without stabilizers	kg	550			550			



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