Technical sheet:

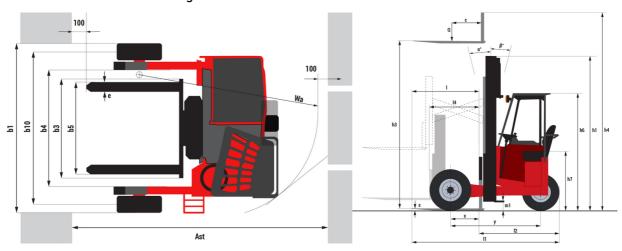
## **TMM 20 ST5**





Technical characteristics  1.1 Manufacturer 1.2 Model Name 1.2.1 Reach out equipment 1.3 Power source 1.4 Operator type 1.5 Max. capacity 1.6 Load center of gravity 1.8 Load distance, centre of drive axle to fork 1.9 Wheelbase Weight Standard mast reference of the machine 2.1 Service weight 2.2 Weight on front axle (laden) / rear axle (laden)	Q c x y	Metric MANITOU TMM 20 ST5 Pantograph Diesel Seated 2000 kg 500 mm 490 mm
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2.1 Service weight 2.2 Weight on front axle (laden) / rear axle (laden)		FVD 30
2.2 Weight on front axle (laden) / rear axle (laden)		2290 kg
		3050 kg / 1240 kg
2.3 Weight on front axle (Unladen) / rear axle (Unladen)		1050 kg / 1240 kg
Wheels		1030 kg / 1240 kg
		Pneumatic
3.1 Tires type 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
Dimensions		
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 Tuming radius	Wa	2463 mm
Performances		
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
Engine		
7.1 Engine brand / norm / model		Kubota - Stage V / D1105-E4B-MNT-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
Miscellaneous		
8.1 Type of drive control		Cable
8.2 Working hydraulic pressure for attachments		190 bar
8.3 Oil flow rate for attachments		43 I/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

		Full Visibility Duplex (FVD)	
		h1 - Mast lowered height	mm
		h3 - Mast lifting height	mm
		h4 - Mast extended height	mm
Residual Capacity (Maximum Height & LC = 600 mm)	Simple Reach	Pantograph reach in	kg
		Pantograph reach out with stabilizers	kg
		Pantograph reach out without stabilizers	kg
		Telescopic forks reach in	kg
		Telescopic Forks reach out with stabilizers	kg
		Telescopic Forks reach out without stabilizers	kg
	Double Reach	Pantograph & TF reach in	kg
		Pantograph & TF reach out with stabilizers	kg
		Pantograph & TF reach out without stabilizers	kg

FVD 30	FVD 36	FVD 42
2352	2702	3090
3000	3600	4200
4455	5055	5695
2000	2000	2500
1750	1750	
1050	1050	
2000	2000	
1300	1300	
1100	1100	
2000	2000	
1100	1100	
550	550	





## **Head Office**

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