Technical sheet:

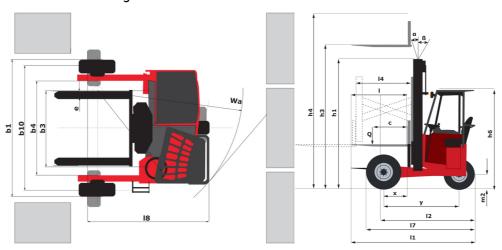
TMM 20 ST5





Manifacturer			TMM 20 ST5	Created on May 19, 2024 at 5:08:28 PM UT
1.2.1 Model Name		Technical characteristics		Metric
1.2.1 Risch out equipment	1.1	Manufacturer		MANITOU
1.3	1.2	Model Name		TMM 20 ST5
1.4 Operator type	1.2.1	Reach out equipment		Pantograph
1.5 Max. capacity C	1.3			
1.5 Max. capacity c 5 Common 1.6 Load cember of gravity c 5 S00 mm 1.3 Load distance, centre of drive axis to fork x 400 mm 1.19 Wheelbase y 1.59m mm 1.99 Meelphase y 1.59m mm 1.99m mm 1.99m mm 1.99m mm 1.99m mm 1.99m mm 1.99	1.4	Operator type		Seated
1.6			Q	
1.8	1.6		C	
Wheelbase				
Neight Service weight 2290 kg 3350 kg / 1240 kg 3350 kg / 1240 kg 3350 kg / 1240 kg 1050 kg				
2.1 Senice weight 3305 kg / 1240 kg 3305 kg / 1240 kg 3305 kg / 1240 kg 3205 kg / 1240 kg 1505 kg / 1240 kg / 1240 kg 1505 kg / 1240 kg / 1240 kg / 1240 kg 1240 kg / 12			, in the second second	
2.2 Weight on front axie (laden) / rear axie (laden)	2.1	-		2290 kg
2.3 Weight on front axie (Unladen) / rear axie (Unladen)				
Wheels				
3.1 Tires type	2.0			1030 kg / 1240 kg
3.2 Dimensions of front wheels 27x10-12 IC30 3.3 Dimensions of rear wheels 2/1 3.5 Dirive wheels (front / rear) 2/1 3.5.2 Drive wheels (front / rear) 2/1 3.6 Front wheel gauge bil 215 mm Dimensions	2 1			Progratio
3.3 Dimensions of rear wheels 27x10-12 lG30 3.5 Number of front wheels / rear wheels 2 / 1 3.6 Front wheel gauge		**		
3.5 Number of front wheels / rear wheels 2 / 1 3.5.2 Drive wheels (front / rear) 2 / 1 2 / 1 3.5.2 Drive wheels (front / rear) 2 / 1 2 / 1 3.5.2 Drive wheels (front / rear) 2 / 1 3.6 Front wheel gauge b10 215 mm 2 / 1 2 /				
3.5.2 Drive wheels (front / rear) 2 / 1 2 / 1 3.6 Front wheel gauge bit				
Second S				
Dimensions			140	
4.7 Height of overhead guard (cabin) h6 2120 mm 4.8 Seat height/stand height h7 1070 mm 4.19 Overall length I1 2650 mm 4.21 Overall width b1 2406 mm 4.22 Fork section / width / length \$ /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 4.25 Distance between support arms b4 1165 mm 4.26 Distance between wheel arms/loading surfaces b4 1600 mm 4.28 Maximum horizontal extension at COG 600 l4 1000 mm 4.28 Maximum horizontal extension at COG 600 l4 1000 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 3363 mm 4.35 Turning 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) 9.40 km/h - 9.50 km/h 5.2 Lifting speed (laden / unladen) 0.38 m/s / 0.24 m/s </td <td>3.0</td> <td></td> <td>DIU</td> <td>2151 mm</td>	3.0		DIU	2151 mm
4.8 Seat height/ stand height h7 1070 mm 4.19 Overall length i1 2650 mm 4.21 Overall width b1 2406 mm 4.22 Fork section / width / length s / e / l 40 mm x 120 mm 4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.24 Fork carriage width b3 1260 mm 4.25 Distance between support arms b4 1165 mm 4.26 Distance between wheel arms/loading surfaces b4 1600 mm 4.28 Maximum horizontal extension at COG 600 14 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 5.5 Nominal pulling force (laden) 0.26 m/s / 0.24 m/s 5.	4.7			0400
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4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.24 Fork carriage width b3 1260 mm 4.25 Distance between support arms b4 1165 mm 4.26 Distance between wheel arms/loading surfaces b4 1600 mm 4.28 Maximum horizontal extension at COG 600 I4 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) 9.40 km/h - 9.50 km/h 5.2 Lifting speed (laden / unladen) 0.26 m/s / 0.24 m/s 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 <td></td> <td></td> <td></td> <td></td>				
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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 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic				
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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 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic		Ground clearance at centre of wheelbase	m2	
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 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	3363 mm
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 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic Engine	4.35	Turning radius	Wa	2463 mm
5.2 Lifting speed (laden / unladen) 0.26 m/s / 0.24 m/s 5.5 Nominal pulling force (laden) 2200 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 56 % / 51 % 5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic Engine Hydrostatic		Performances		
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5.3 Lowering speed (laden / unladen) 5.7 Gradeability (laden / unladen) 5.10 Service brake 5.9 Acceleration time (laden / unladen) 5.11 Transmission type 6.9 Hydrostatic 6.9 Engine 6.0 1.38 m/s / 0.24 m/s 6.0 4.0 5 / 5 1 % 6.0 4.0 5 / 5 1 % 6.0 4.0 5 / 2.60 5 6.0 5 Hydrostatic	5.2	Lifting speed (laden / unladen)		0.26 m/s / 0.24 m/s
5.7 Gradeability (laden / unladen) 5.8 Service brake 5.9 Acceleration time (laden / unladen) 5.11 Transmission type 5.9 Hydrostatic 5.11 Engine	5.5	Nominal pulling force (laden)		2200
5.10 Service brake Hydraulic brakes by loss of pressure 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic Engine	5.3	Lowering speed (laden / unladen)		0.38 m/s / 0.24 m/s
5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.11 Transmission type Hydrostatic Engine	5.7	Gradeability (laden / unladen)		56 % / 51 %
5.11 Transmission type Hydrostatic Engine Hydrostatic	5.10	Service brake		Hydraulic brakes by loss of pressure
Engine	5.9	Acceleration time (laden / unladen)		4.10 s / 2.60 s
	5.11	Transmission type		Hydrostatic
7.1 Engine brand / norm Kubota - Stage V		Engine		
	7.1	Engine brand / norm		Kubota - Stage V
7.2 Engine power according to ISO 1585 18.50 kW				
7.3 Rated speed 3000 rpm	7.3	Rated speed		3000 rpm
7.4 Number of cylinders / Capacity of cylinders 3 - 1123 cm ³				
Miscellaneous				
8.1 Type of drive control Cable	8.1			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				

TMM 20 ST5 - Dimensional drawing



Characteristics of masts and residual capacities

		Full Visibility Duplex (FVD)		FVD 30	FVD 36
		h1 - Mast lowered height	mm	2352	2702
		h3 - Mast lifting height	mm	3000	3600
		h4 - Mast extended height	mm	4455	5055
nt &	Simple Reach	Pantograph reach in	kg	2000	2000
leigh		Pantograph reach out with stabilizers	kg	1750	1750
Ē		Pantograph reach out without stabilizers	kg	1050	1050
iĝ (E		Telescopic forks reach in	kg	2000	2000
Ма) 00 гг		Telescopic Forks reach out with stabilizers	kg	1300	1300
Capacity (Maximum Height & LC = 600 mm)		Telescopic Forks reach out without stabilizers	kg	1100	1100
	Double Reach	Pantograph & TF reach in	kg	2000	2000
Residual		Pantograph & TF reach out with stabilizers	kg	1100	1100
Res		Pantograph & TF reach out without stabilizers	kg	550	550





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