Technical sheet:

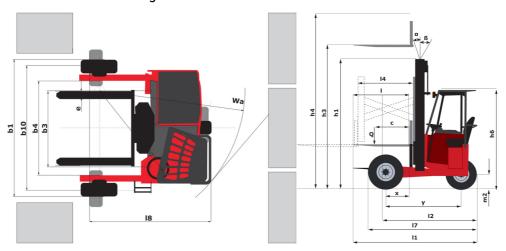
TMM 20 4W ST5





			TMM 20 4W ST5	Created on 4 May 2024 at 12:57:37 AM U
Model Name		Technical characteristics		Metric
Pents out equipment Pents out equipment	1.1	Manufacturer		MANITOU
1.3	1.2	Model Name		TMM 20 4W ST5
1.3	1.2.1	Reach out equipment		Pantograph
1.5 Max. capacity Q 2000 kg 1.6 Load center of gravity c 5500 mm 1.9 Winelbase y 1596 mm 1.9 Winelbase y 1596 mm 2.1 Service weight 2450 kg 2450 kg 2.2 Weight on front axie (Unladen) 3180 kg / 1270 kg 3180 kg / 1270 kg 2.3 Weight on front axie (Unladen) / rear axie (Unladen) 2 1180 kg / 1270 kg 3.1 Times type Pheeumatic 27710 12 (230 3.2 Dimensions of front wheels 2 27710 12 (230 3.5 Number of front wheels 2 2771 12 (230 3.5 Dimensions of front wheels 2 2/1 3.6 Price theels (front / read) 1 2 2/1 3.6 Dimensions of front wheels 2 2/1 2 2/1 2 2/1 2 2/1 2 2 2/1 2 2 2 2/1 2 2 2 2 1 2<	1.3			
1.5 Max capacily c 5000 mm 1.8 Load distance, certe of drive axle to fork x 5000 mm 1.9 Wheelbase y 1596 mm 2.1 Service weight 2498 kg 2498 kg 2.2 Weight on frontaxle (Unladen) 3180 kg / 1270 kg 3180 kg / 1270 kg 2.3 Weight on frontaxle (Unladen) / rear axle (Indeen) 6 1180 kg / 1270 kg 3.1 Times type Pheumatic 27710 121 (203 3.2 Dimensions of front wheels 27710 121 (203 3.5 Number of front wheels / war wheels 271 271 3.6 Phont wheel (print / read) 10 271 271 3.6 Phont wheel (print / read) 10 2055 mm 271 3.6 Phont wheel (print / read) 10 2005 mm 271 3.6 Dimensions of read weels 10 2005 mm 271 1000 mm 10 2005 mm 271 1000 mm 10 2005 mm 271 1000 mm 10 2000 mm 2000 mm	1.4	Operator type		Seated
1.6 Load cester of gravity c 5500 mm 1.8 Load distance, centre of drive sale to fork x 5000 mm 1.8 Load distance, centre of drive sale to fork y 15000 mm 1.0 Numbelbase y 1598 mm 2.1 Secretic wellpht 2.0 4550 kg 2.2 Weight to front sale (Unladen) / rear sale (Iuden) 3180 kg / 1270 kg 3.1 Tites type 1180 kg / 1270 kg 3.1 Tites type 2.0 Pheumatic 3.1 Dimensions of front wheels 2.7 1710-12 (120) 3.3 Dimensions of front wheels 2.7 1 2.7 1 3.5 Number of front wheels (mort / rear) 2.1 2.7 1 3.5 Drive wheels (front / rear) 2.1 2.7 1 3.5 Pront wheel gauge b10 2.095 mm 4.7 Height of overhaad gusuf (cabin) h5 2.00 mm 4.7 Height of sovehead gusuf (cabin) h5 2.00 mm 4.7 Overall weldh h7 1.00 mm			0	
1.8 Load distance, centre of dive arile to fook x 500 mm 1.9 Weight Weight 1598 mm 2.1 Service weight 20 (all on front axie (laden) / mar axie (laden) 21 (all on front axie (laden) / mar axie (laden) 22 (all on front axie (laden) / mar axie (laden) 22 (all on front axie (laden) / mar axie (laden) 22 (all on front axie (laden) / mar axie (laden) 23 (all on front axie (laden) / mar axie (laden) 24 (all on front axie (laden) / mar axie (laden) 25 (all on front axie (laden) / mar axie (laden) 25 (all on front axie (laden) / mar axie (laden) 25 (all on front axie (laden) / mar axie (laden) 26 (all on front axie (laden) / mar axie (laden) 27 (all on front front front axie (laden) 27 (all on front front front front sheels 27 (all on front front front sheels 27 (all on front front sheels 27 (all on front front sheels 27 (all on fron	1.6		c	
1.9 Wheelbase y 1598 mm 2.1 Weight or front axie (laden) / rear axie (laden) 225 (wight or front axie (lulladen) 225 (wight or front axie (lulladen) / rear axie (Unladen) 3130 kg/ 1270 kg 3.1 Time type Pheumatic Pheumatic 3.1 Time type 27710-12 (30 3.3 Dimensions of rear wheels 27710-12 (30 3.3 Dimensions of rear wheels 2711 3.5 Piont wheel gauge 271 3.6 Prout wheel gauge 9 271 3.5 Piont wheel gauge 9 271 4.7 Height of cowhead quard (cabin) 6 2808 mm 4.7 Height of cowhead quard (cabin) h6 2808 mm 4.7 Height of cowhead quard (cabin) h6 2808 mm 4.7 Height of cowhead quard (cabin) h7 1303 mm 4.7 Height of cowhead quard (cabin) h6 2808 mm 4.7 Height of cowhead quard (cabin) h6 2808 mm 4.7 Height of cowhead quard (cabin) h6				
Neight Service weight 245 kg 24			V	
2.5 Service weight Carbon Carbo				
2.2 Weight on front axile (laden) / rear axile (unidaten) 3180 kg / 1270 kg 2.3 Weight on front axile (Unidaten) / rear axile (unidaten) 180 kg / 1270 kg 3.1 Tires type Pheumatic 3.2 Dimensions of front wheels 27X10-12 ic30 3.3 Dimensions of front wheels / rear wheels 27X10-12 ic30 3.5 Number of front wheels / rear wheels 2/1 3.6 Poot wheels (guage b10 2055 mm 3.6 Poot wheels (guage b10 2095 mm 4.8 Seat height/stand height h7 1030 mm 4.8 Seat height/stand height h7 1030 mm 4.1 Overall length h1 2599 mm 4.21 Overall width / length h1 2599 mm 4.22 Fork s section / with / length h1 2599 mm 4.23 Fork carriage width h3 1260 m 4.24 Fork carriage width h3 1260 m 4.25 Distance between support arms h4 1155 mm 4.26 G	2.1	-		2450 kg
3.1 Tires type Pneumatic 3.2 Dimensions of front wheels 277/10-12/G3 3.3 Dimensions of rear wheels 277/10-12/G3 3.5 Number of front wheels / rear wheels 2/1 3.5 Drive wheels (front / rear) 2/1 3.6 Forth wheel gauge b10 2095 mm ****Period wheel stront / rear wheels ****Period wheel gauge ****Period wheel gauge ****Period wheel gauge *****Period wheel gauge *****Period wheel gauge ******Period wheel gauge ************************************	2.3			1100 kg / 1270 kg
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 bit 2 / 1 4.7 Height of overhead guard (cabin) h6 2080 mm 4.8 Sea height/stand height h1 2588 mm 4.9 Overall width h1 2588 mm 4.21 Overall width / length b1 2315 mm 4.22 Forks section / width / length 5 / 4 40 mm x 122 mm x 1200 mm 4.23 Fork carriage Sto 2238 (class/form) A/B 5 / 4 40 mm x 122 mm x 1200 mm 4.24 Fork carriage Sto 2238 (class/form) A/B 5 / 4 40 mm x 122 mm x 1200 mm 4.25 Distance between support arms b4 1165 mm 4.26 Distance between wheel amms/loading surfaces b4 1165 mm 4.28 Glound clearance at centre of wheelbase b4 1492 mm 4.28 Tuming radius	2 1			Proumatio
3.3 Dimensions of rear wheels 27X10-12 IC30 3.5 Number of front wheels / rear wheels 2 / 1 3.6 Front wheel gauge b10 2 / 1 3.6 Front wheel gauge b10 2095 mm 4.7 Height of overhead guard (cabin) h6 2080 mm 4.8 Seat height/stand height h7 1 133 mm 4.9 Overall length 11 2.598 mm 4.21 Fork carriage ISO 2328 (class / from) A/B s e / 2 40 mm x 122 mm x 120 mm 4.22 Fork carriage Width 5 / 2 40 mm x 122 mm x 1200 mm 4.23 Fork carriage Width 5 / 3 1260 mm 4.24 Fork carriage ISO 2328 (class / from) A/B 5 / 4 40 mm x 122 mm x 1200 mm 4.25 Fork carriage width 5 / 4 40 mm x 122 mm x 1200 mm 4.26 Fork carriage Width 5 / 4 40 mm x 122 mm x 1200 mm 4.27 Distance between wheel arms / loading surfaces 4 / 4 1165 mm 4.28 Distance between wheel arms / loading surfaces m2 2 / 23 mm				
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Front wheel gauge Bit Commands B				
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4.8 Seat height/stand height h7 1030 mm 4.19 Overall length 11 2598 mm 4.21 Overall width b1 2315 mm 4.22 Fork section / width / length s / e / I 40 mm x 122 mm x 1200 mm 4.23 Fork carriage ISO 2328 (class/form) A/8 2A 2A 4.24 Fork carriage width b3 1260 m 4.25 Distance between support ams b4 1165 mm 4.26 Distance between wheel ams/loading surfaces b4 11492 mm 4.28 Maximum horizontal extension at COG 600 I4 1000 mm 4.32 Ground clearance at centre of wheelbase m2 231 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Wa 2463 mm 4.34 Aisle width for 800 x 1200 pallet lengthways Wa 2463 mm 5.1 Travel speed (laden / unladen) Wa 2463 mm 5.2 Nominal pulling force (laden) 0.26 m/s / 0.24 m/s 5.5 Nominal pulling force (laden) 0.38 m/s / 0.24 m/s 5.	4.7		1.5	0000
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4.34 Aisle width for 800 x 1200 pallet lengthways Ast 3363 mm 4.35 Tuming radius Wa 2463 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) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 6.11 Transmission type Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	4.28	Maximum horizontal extension at COG 600	14	1000 mm
4.35 Tuming radius Wa 2463 mm Perfomances 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) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 6.11 Transmission type Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	4.32	Ground clearance at centre of wheelbase	m2	231 mm
Performances Invale 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) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 5.11 Transmission type Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	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) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 6.11 Engine Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	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) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 6.11 Engine Kubota - Stage V 7.1 Engine power according to ISO 1585 18.50 kW		Performances		
5.5 Nominal pulling force (laden) 2450 5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 6.11 Engine Kubota - Stage V 7.1 Engine power according to ISO 1585 18.50 kW	5.1	Travel speed (laden / unladen)		9.40 km/h - 9.50 km/h
5.3 Lowering speed (laden / unladen) 0.38 m/s / 0.24 m/s 5.7 Gradeability (laden / unladen) 47 % / 48 % 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 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.2	Lifting speed (laden / unladen)		0.26 m/s / 0.24 m/s
5.7 Gradeability (laden / unladen) 47 % / 48 % 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 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.5	Nominal pulling force (laden)		2450
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 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	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 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.7	Gradeability (laden / unladen)		47 % / 48 %
5.11 Transmission type Hydrostatic Engine Cumple 7.1 Engine brand / nom Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.10	Service brake		Hydraulic brakes by loss of pressure
Engine Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.9	Acceleration time (laden / unladen)		4.10 s / 2.60 s
Engine Kubota - Stage V 7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW	5.11	Transmission type		Hydrostatic
7.1 Engine brand / norm Kubota - Stage V 7.2 Engine power according to ISO 1585 18.50 kW				
7.2 Engine power according to ISO 1585 18.50 kW	7.1			Kubota - Stage V
7.3 Rated speed 3000 rpm	7.3			3000 rpm
7.4 Number of cylinders / Capacity of cylinders 3 - 1123 cm ³				
Miscellaneous				5 1120 om
8.1 Type of drive control Cable	8 1			Cahla
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 4W 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
leigl		Pantograph reach out with stabilizers	kg	1750	1750
Residual Capacity (Maximum Height & LC = 600 mm)		Pantograph reach out without stabilizers	kg	1100	1050
		Telescopic forks reach in	kg	2000	2000
		Telescopic Forks reach out with stabilizers	kg	1300	1300
		Telescopic Forks reach out without stabilizers	kg	1150	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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