Technical sheet:

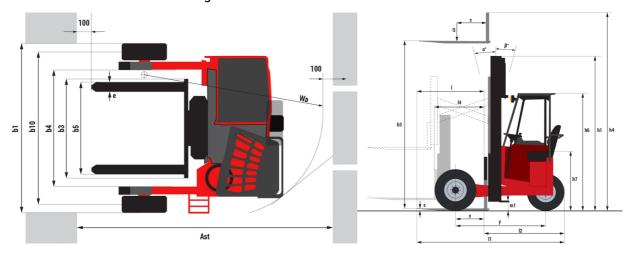
TMM 45 K ST5





Petitod el Paracteristos			TMM 45 KST5 Created	d on November 24, 2024 at 12:15 AM UTC
1.2		Technical characteristics		Imperial
	1.1	Manufacturer		MANITOU
1.1	1.2	Model Name		TMM 45 K ST5
1.1	1.2.1	Reach out equipment		Pantograph
1.5 Mac agencity Q 4.40% to				
15				
1.6			0	
1.5				
New				
Variety Survey				
22	1.2		,	00 111
Weight on front aske (Unladen) / rear axie (Unladen)	2 1			5049 lh
Weight on front axie (Unladen) / rear axie (Unladen)				
	2.3			2313 ID / 2/34 ID
22 Dimensions of freat wheels 27x10-12/C30 3.3 Dimensions of feat wheels 27x10-12/C30 3.5 Dimensions of feat wheels / rear wheels 2/1 3.5 Dimensions 2/1 3.5 Dimensions 2/1 4.4 Max. Hidge light Ma	0.1			Draumatia
1.3.5				
3.5.2 Drive wheels (front / rear) 2 / 1 2 / 1 3.5.2 Drive wheels (front / rear) 2 / 1 3.5.2 Drive wheels (front / rear) 2 / 1 3.5.5 2 / 1 3.5.5				
3.5.2 Din'e wheels (front / rear) 2 / 1 3.6 Front wheel gauge b10 85 in Momensions 4.4 Max. Iffing height h3 118 in 4.5 Height telescopic boom extended h6 83 in 4.7 Height of overhead guard (cabin) h6 83 in 4.8 Sea theight stands height h7 41 in 4.9 Overall width b1 95 in 4.21 Overall width b1 95 in 4.22 Fork scariage SD 228 (class/form) A/B s / 2 / 2 2 / 2 4.23 Fork cariage Width b5 2 / 2 2 / 2 4.24 Fork cariage SD 228 (class/form) A/B s / 6 in 4 / 2 5 in 4 / 2 6 in 4 / 3 5 in 4 / 3 4 / 3 6 in 4 / 3 4 / 3 9 in 4 / 3 4 in 3 in 4 in 3 in 4 in 4 in <t< td=""><td></td><td></td><td></td><td></td></t<>				
Front wheel gauge				
Nax. lifting height h3 118 in 145 159 in 145 159 in 146 159 in 147 141 in 159 in 148 159 in 150 1				
4.4 Max. lifting height h3 118 in 4.5 Height telescopic boom extended h4 199 in 4.7 Height clescopic boom extended h6 83 in 4.8 Seat height/stand height h7 41 in 4.19 Overall ength II 104 in 4.21 Overall width b1 95 in 4.22 Fork secion / width / length s / e / I 2 in x 5 in x 47 in 4.22 Fork carriage Width b3 50 in 4.23 Fork carriage width b3 50 in 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.26 Distance between wheel arms/loading surfaces b4 63 in 4.28 Maximum horizontal extension at COG 600 14 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Tuming adult Wa	3.6		b10	85 in
Height telescopic boom extended h4 199 in 4.77				
4.7 Height of overhead guard (cabin) h6 83 in 4.8 Seat height stand height h7 41 in 4.19 Overall length 11 104 in 4.21 Overall width b1 95 in 4.22 Fork section / width / length s / c / 1 2 in x 5 in x 47 in 4.23 Fork carriage SiO 2238 (class/form) A/B 2A 4 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.26 Distance between wheel arms/floading surfaces b4 63 in 4.28 Maximum horizontal extension at COG 600 i4 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aske width for 800 x 1200 palet lengthways Ast 132 in 4.35 Turning radius Wa 97 in 5.1 Tavel speed (laden / unladen) Wa 97 in 5.2 Liffing speed (laden / unladen) 0.85 ftvs / 0.79 ftvs 5.3 Lowering speed (laden				
4.8 Seat height/stand height h7 41 in 4.19 Overall length I1 104 in 4.21 Overall width b1 95 in 4.22 Fork section / width / length s / e/1 2 in x 5 in x 47 in 4.23 Fork carriage SiO 2328 (class/form) A/B 2A 2A 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.26 Distance between wheel arms/loading surfaces b4 63 in 4.28 Maximum horizontal extension at COG 600 14 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 A iste width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Turning radius Wa 97 in Performances **** **** 5.1 Tavel speed (laden / unladen) *** 0.85 ftys / 0.79 ft/s 5.2 Lifting speed (laden / unladen) *** 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unla				
1		Height of overhead guard (cabin)		
4.21 Overall width / length b1 95 in 4.22 Forks section / width / length s / e / 1 2 in x 5 in x 47 in 4.23 Fork carriage ISO 2328 (class/fcm) A/B 2A 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.26 Distance between wheel ams/loading surfaces b4 63 in 4.28 Maximum horizontal extension at C06 600 14 39 in 4.28 Maximum horizontal extension at C06 600 14 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 80x 1200 pallet lengthways Ast 132 in 4.35 Tuming radius Wa 97 in Performances Wa 97 in 5.1 Travel speed (laden / unladen) Wa 97 in 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 4.10 s / 2.60 s 5.7 Service brake Hydraulic brake by to so	4.8	Seat height/stand height	h7	41 in
4.22 Forks section / width / length s / e / l 2 in x 5 in x 47 in 4.23 Fork carriage width b3 50 in 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.26 Distance between wheel arms/loading surfaces b4 63 in 4.28 Maximum horizontal extension at COG 600 14 39 in 4.32 Ground clearance at center of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Tuming radius Wa 97 in Performances Wa 97 in 5.1 Travel speed (laden / unladen) 7 mph -7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Cowering speed (laden / unladen) 11t/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 9 0.85 ft/s / 0.79 ft/s 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressur		Overall length	I1	104 in
4.23 Fork carriage ISO 2328 (class/form) A/B 2A 4.24 Fork carriage width b3 50 in 4.26 Distance between support arms b5 46 in 4.28 Maximum horizontal extension at COG 600 I4 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Turning radius Wa 9.7 in Performances 5.1 Travel speed (laden / unladen) Town properties 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 11ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 9.85 ft/s / 0.79 ft/s 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Senrice brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydraulic brakes by loss of pressure 7.2 L.C. Engine brand / norm Kubboa - Stage V 7.2 L.C. Engine power rating	4.21	Overall width	b1	95 in
4.24 Fork carriage width	4.22	Forks section / width / length	s / e / l	2 in x 5 in x 47 in
Distance between support arms	4.23	Fork carriage ISO 2328 (class/form) A/B		2A
4.26 Distance between wheel arms/loading surfaces b4 63 in 4.28 Maximum horizontal extension at COG 600 14 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Turning radius Wa 97 in Performances 5.1 Tavel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydrallic brakes by loss of pressure 5.11 Transmission type Hydrostatic 6.11 Engline Klubota - Stage V 7.2 I.C. Engline power rating Kubota - Stage V 7.3 Rated speed 3 000 rpm 7.4 Number of cylinders / Capacity of cylinders 3 - 69 in³	4.24	Fork carriage width	b3	50 in
4.28 Maximum horizontal extension at COG 600 I4 39 in 4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Tuming radius Wa 97 in Performances 5.1 Travel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydrostatic Engine Kubota - Stage V 7.1 Engine brand / norm 18.50 kW 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 · 69 in³ Miscellaneous 1 8.1 Type of drive control Cable	4.26	Distance between support arms	b5	46 in
4.32 Ground clearance at centre of wheelbase m2 11 in 4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Tuming radius Wa 97 in Performances 5.1 Travel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydrostatic 5.10 Engine Hydrostatic 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous 3 - 69 in³ 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 11 US gpm	4.26	Distance between wheel arms/loading surfaces	b4	63 in
4.34 Aisle width for 800 x 1200 pallet lengthways Ast 132 in 4.35 Tuming radius Wa 97 in Performances 5.1 Travel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydrostatic Engine 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 11 US gpm	4.28	Maximum horizontal extension at COG 600	14	39 in
Tuming radius Wa 97 in Performances 5.1 Travel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydraulic brakes by loss of pressure 7.1 Engine Hydraulic brakes by loss of pressure 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous 3 - 69 in³ 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	4.32	Ground clearance at centre of wheelbase	m2	11 in
Performances	4.34	Aisle width for 800 x 1200 pallet lengthways	Ast	132 in
5.1 Travel speed (laden / unladen) 7 mph - 7 mph 5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydrostatic Engine 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous Cable 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 11 US gpm	4.35	Turning radius	Wa	97 in
5.2 Lifting speed (laden / unladen) 0.85 ft/s / 0.79 ft/s 5.3 Lowering speed (laden / unladen) 1 ft/s / 0.79 ft/s 5.7 Gradeability (laden / unladen) 50 % / 51 % 5.9 Acceleration time (laden / unladen) 4.10 s / 2.60 s 5.10 Service brake Hydraulic brakes by loss of pressure 5.11 Transmission type Hydrostatic Engine 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous Cable 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm		Performances		
Lowering speed (laden / unladen) 5.7 Gradeability (laden / unladen) 5.9 Acceleration time (laden / unladen) 5.10 Service brake 5.11 Transmission type Engine 7.1 Engine brand / norm 7.2 I.C. Engine power rating Rated speed 7.3 Rated speed Number of cylinders / Capacity of cylinders Miscellaneous 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments 1 Ift/s / 0.79 ft/s 5.0 \(\) 5.0 \(\) 5.0 \(\) 5.0 \(\) 5.1 \(\) 5.0 \(\) 5.0 \(\) 5.1 \(\) 5.0 \(\) 5.10 \(\) 5.10 \(\) 5.10 \(\) 5.10 \(\) 5.10 \(\) 5.10 \(\) 5.10 \(\) 6.10 \(\) 5.10 \(\) 6	5.1	Travel speed (laden / unladen)		7 mph - 7 mph
5.7 Gradeability (laden / unladen) 5.9 Acceleration time (laden / unladen) 5.10 Service brake 5.11 Transmission type Engine 7.1 Engine brand / norm 7.2 I.C. Engine power rating Rated speed 7.3 Rated speed 7.4 Number of cylinders / Capacity of cylinders 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments 7.1 Gradeability (laden / unladen) 5.0 % / 51 % 4.10 s / 2.60 s Hydraulic brakes by loss of pressure Rubdraulic brakes by loss of pressure Hydraulic brakes by loss of pressure Hydraulic brakes by loss of pressure Rubdraulic brakes by loss of pressure Hydraulic brakes by loss of pressure Rubdraulic brakes by loss of pressure Hydraulic brakes by loss of pressure Rubdraulic brakes by loss of pressure	5.2	Lifting speed (laden / unladen)		0.85 ft/s / 0.79 ft/s
5.9 Acceleration time (laden / unladen) 5.10 Service brake 5.11 Transmission type Engine 7.1 Engine brand / norm Kubota - Stage V 7.2 I.C. Engine power rating Rated speed 7.4 Number of cylinders / Capacity of cylinders Miscellaneous 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments Oil flow rate for attachments 4.10 s / 2.60 s Hydraulic brakes by loss of pressure Hydraulic brakes by loss of pressure Kubota - Stage V 7.2 LC. Engine Hydrostatic 18.50 kW 3000 rpm 3 - 69 in³ Cable 2756 PSI 11 US gpm	5.3	Lowering speed (laden / unladen)		1 ft/s / 0.79 ft/s
Service brake Hydraulic brakes by loss of pressure Engine 7.1 Engine brand / norm Kubota - Stage V 7.2 I.C. Engine power rating Rated speed 7.4 Number of cylinders / Capacity of cylinders Miscellaneous 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments Oil flow rate for attachments Hydraulic brakes by loss of pressure Hydraulic brakes by loss of pressure by loss of	5.7	Gradeability (laden / unladen)		50 % / 51 %
Transmission type Engine 7.1 Engine brand / norm Kubota - Stage V 7.2 I.C. Engine power rating Rated speed 7.4 Number of cylinders / Capacity of cylinders Miscellaneous 8.1 Type of drive control 8.2 Working hydraulic pressure for attachments Oil flow rate for attachments Hydrostatic Kubota - Stage V Rubota - Stage V 3000 rpm 3 - 69 in³ Cable 2756 PSI 11 US gpm	5.9	Acceleration time (laden / unladen)		4.10 s / 2.60 s
Engine 7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	5.10	Service brake		Hydraulic brakes by loss of pressure
7.1 Engine brand / norm Kubota - Stage V 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 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	5.11	Transmission type		Hydrostatic
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 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm		Engine		
7.3 Rated speed 3000 rpm 7.4 Number of cylinders / Capacity of cylinders 3 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	7.1	Engine brand / norm		Kubota - Stage V
7.3 Rated speed 3000 rpm 7.4 Number of cylinders / Capacity of cylinders 3 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	7.2	I.C. Engine power rating		18.50 kW
7.4 Number of cylinders / Capacity of cylinders 3 - 69 in³ Miscellaneous 8.1 Type of drive control Cable 8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	7.3	Rated speed		3000 rpm
Miscellaneous8.1Type of drive controlCable8.2Working hydraulic pressure for attachments2756 PSI8.3Oil flow rate for attachments11 US gpm	7.4	Number of cylinders / Capacity of cylinders		
8.1Type of drive controlCable8.2Working hydraulic pressure for attachments2756 PSI8.3Oil flow rate for attachments11 US gpm				
8.2 Working hydraulic pressure for attachments 2756 PSI 8.3 Oil flow rate for attachments 11 US gpm	8.1			Cable
8.3 Oil flow rate for attachments		••		
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TMM 45 K ST5 - Dimensional drawing



Characteristics of masts and residual capacities

		Full Visibility Duplex (FVD)		FVD 30	FVD 36
		h1 - Mast lowered height	in	92.6	106.4
		h3 - Mast lifting height	in	118.1	141.7
		h4 - Mast extended height	in	175.4	199
nt &	Simple Reach	Pantograph reach in	lb	4409	4409
leigl		Pantograph reach out with stabilizers	lb	3858	3858
盲		Pantograph reach out without stabilizers	lb	2315	2315
Éjm (m)		Telescopic forks reach in	lb	4409	4409
Ма) п		Telescopic Forks reach out with stabilizers	lb	2866	2866
Capacity (Maximum Height & LC = 600 mm)		Telescopic Forks reach out without stabilizers	lb	2425	2535
	Double Reach	Pantograph & TF reach in	lb	4409	4409
Residual		Pantograph & TF reach out with stabilizers	lb	2425	2425
Res		Pantograph & TF reach out without stabilizers	lb	1213	1213





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