



MTC10-15

SPEC SHEET

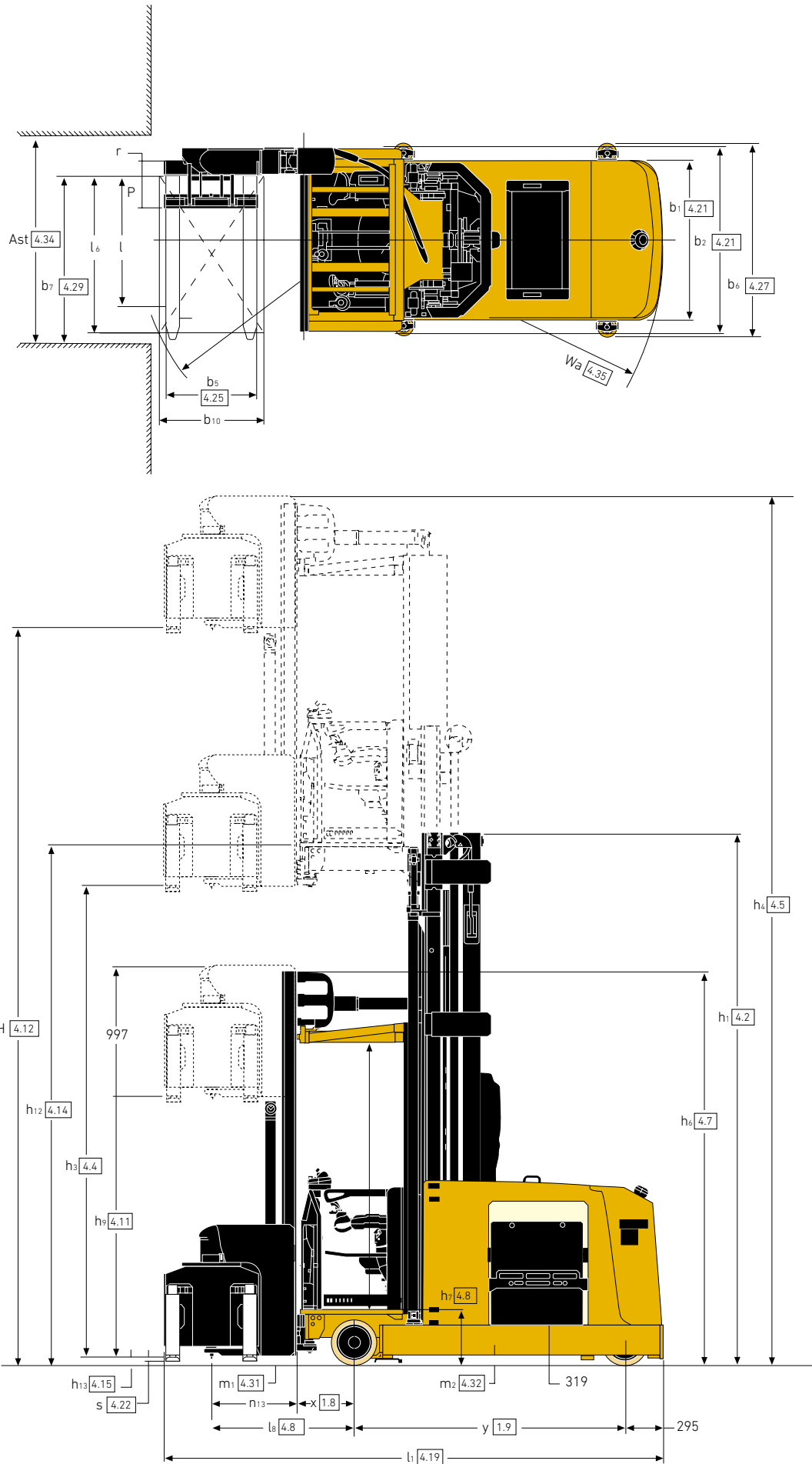
1,000 - 1,500 kg

MTC Series

Very Narrow Aisle
Turret Truck



TRUCK DIMENSIONS – MTC SERIES



VDI 2198 – GENERAL SPECIFICATIONS – MTC SERIES

			Yale				
			MTC10	MTC13	MTC13 80	MTC13 LWB	
GENERAL	1.1	Manufacturer					
	1.2	Model designation					
	1.3	Drive			Battery		
	1.4	Operator type			Seated / Stand-on		
	1.5	Rated capacity/Rated load	Q (t)	1	1.3		
	1.6	Load centre distance	c (mm)	600			
	1.8	Load distance, centre of drive axle to fork	x (mm)	431 ⁽²⁾			
	1.9	Wheelbase	y (mm)	1783	1943	2063	
	WEIGHT	2.1	Service weight ⁽¹⁾	Kg	6388	7077	8014
2.2		Axle loading, laden front/rear ⁽¹⁾	Kg	5468/1920	6466/1911	7061/2252	7216/2647
2.3		Axle loading, unladen front/rear ⁽¹⁾	Kg	3860/2528	4390/2686	4985/3028	5184/3378
TYRES	3.1	Tyres front/rear		Polyurethane			
	3.2	Tyre size, front	ø (mm x mm)	350 x 140			
	3.3	Tyre size, rear	ø (mm x mm)	400 x 160		406 x 178	
	3.5	Wheels, number front/rear (x = driven wheels)		2 / 1(x)	2 / 1(x)	2 / 1(x)	2 / 1(x)
	3.6	Tread, front	b ₁₀ (mm)	1080 - 1285 - 1435 - 1585		1080 - 1285 - 1435 - 1585	
	DIMENSIONS	4.2	Height, mast lowered	h ₁ (mm)	3290	2490	3990
4.4		Lift	h ₃ (mm)	4280	3570	8070	8820
4.5		Height, mast extended	h ₄ (mm)	7337	6627	11127	11877
4.7		Height of overhead guard (cabin)	h ₆ (mm)	3020			
4.8		Seat height relating to SIP/stand height	h ₇ (mm)	425			
4.11		Additional Lift	h ₉ (mm)	1980 - 2140 - 2720 - 3000			
4.14		Stand height, elevated	h ₁₂ (mm)	4705	3995	8495	9245
4.15		Height, lowered	h ₁₃ (mm)	80			
4.19		Overall length ⁽⁶⁾ ⁽⁸⁾	l ₁ (mm)	3538 ⁽²⁾	3698 ⁽²⁾		3818 ⁽²⁾
4.20		Length to face of forks ⁽⁹⁾	l ₂ (mm)	4484 ⁽²⁾	4644 ⁽²⁾		4764 ⁽²⁾
4.21		Overall width	b ₁ /b ₂ (mm)	1220 / 1220 - 1425 - 1575 - 1725			
4.22		Fork dimensions ⁽⁴⁾	s/e/l (mm)	45 / 100 / 1200			
4.23		Fork carriage ISO 2328, class/type A, B		No			
4.24		Fork-carriage width	b ₃ (mm)	720			
4.25		Distance between fork-arms	b ₅ (mm)	508 ÷ 720	508 ÷ 720	508 ÷ 720	508 ÷ 720
4.27		Width across guide rollers	b ₆ (mm)	1275 - 1475 - 1625 - 1775			
4.29		Reach, lateral	b ₇ (mm)	990 - 1190 - 1340 - 1490			
4.30		Reach, lateral from vehicle centreline	b ₈ (mm)	390 - 490 - 565 - 640			
4.31		Ground clearance, laden, below mast	m ₁ (mm)	70			
4.32		Ground clearance, center of wheelbase	m ₂ (mm)	75			
4.34.2		Aisle width for pallets 800mm x 1200mm lengthwise ⁽⁵⁾	Ast (mm)	1600			
4.35		Turning radius	Wa (mm)	2100	2250	2370	
4.38	Distance to swiveling-fork pivot ⁽⁴⁾	l ₈ (mm)	1101 ⁽²⁾				
4.39	Length rotator arm	n (mm)	670				
4.40	Width traverse frame	B (mm)	1200 - 1400 - 1550 - 1700				
4.41	Lost rotator width	F (mm)	210				
4.42	Transfer aisle width pallet 1200 x 1200 mm ⁽⁷⁾	Au (mm)	4140 ⁽²⁾	4295 ⁽²⁾		4410 ⁽²⁾	
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	9.9 / 10	10.4 / 10.5		
	5.2	Lift speed, laden/unladen	m/s	0.33 / 0.42			
	5.3	Lowering speed, laden/unladen	m/s	0.50 / 0.50		0.60 / 0.60	0.50 / 0.50
	5.4	Reaching speed, laden/unladen	m/s	0.19 / 0.20			
	5.7	Gradeability, laden/unladen	%	6			
	5.10	Service brake		Electric / mechanical			
ELECTRIC	6.1	Drive motor, S2 60 minute rating	kW	7.5		8	7.5
	6.2	Lift motor, S3 15% rating	kW	2 x 15.7		2 x 19.1	2 x 15.7
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		B		A	B
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	48/560 ⁽¹¹⁾	48/700 ⁽¹¹⁾	80/420 ⁽¹²⁾	48/1085 ⁽¹⁷⁾
	6.5	Battery weight ⁽¹⁰⁾	Kg	939	1119	1274	1577
OTHER	8.1	Type of drive unit		AC ~ MOSFET			
	10.1	Operating pressure for attachments	bar	150			
	10.2	Oil volume for attachments	l/min	6			
	10.7	Sound pressure level at the driver's seat	dB (A)	< 70			

(1) Service weight referred to h₉=1980mm, b₁-b₂=1220mm, b=1200mm

(2) +76mm for 3STG mast with h₇=670 (C1.0, C1.3, C1.380, C1.3LWB, C1.5SWB / MTC10, MTC13, MTC1380, MTC13LWB, MTC15SWB)

(3) +150mm for 3STG mast with h₇=670 mm (C1.5MWB, C1.5LWB / MTC15MWB, MTC15LWB)

(4) Available fork length 800 - 1000 - 1066 - 1200mm

(5) Ast : load dimension function

(6) -100mm for h₇=570mm

(7) Au = R + Wa + 200mm

(8) Forks nested

(9) Forks forward = 1200mm fork length

(10) These values may vary of +/- 5%

(11) Available battery 48V / 775Ah (1135kg), 48V / 840Ah (1306kg), 48V / 930Ah (1368kg)

VDI 2198 – GENERAL SPECIFICATIONS – MTC SERIES

			Yale			
			MTC15 SWB	MTC15 MWB	MTC15 LWB	
GENERAL	1.1	Manufacturer				
	1.2	Model designation				
	1.3	Drive		Battery		
	1.4	Operator type		Seated / Stand-on		
	1.5	Rated capacity/Rated load	Q (t)	1.5		
	1.6	Load centre distance	c (mm)	600		
	1.8	Load distance, centre of drive axle to fork	x (mm)	431 ⁽²⁾		
	1.9	Wheelbase	y (mm)	2063	2193	2388
	WEIGHT	2.1	Service weight ⁽¹⁾	Kg	8623	9454
2.2		Axle loading, laden front/rear ⁽¹⁾	Kg	7615/2517	8153/2800	8482/3180
2.3		Axle loading, unladen front/rear ⁽¹⁾	Kg	5272/3351	5899/3644	6207/3955
TYRES	3.1	Tyres front/rear		Polyurethane		
	3.2	Tyre size, front	ø (mm x mm)	350 x 140		
	3.3	Tyre size, rear	ø (mm x mm)	406 x 178		
	3.5	Wheels, number front/rear (x = driven wheels)		2 / 1(x)		
	3.6	Tread, front	b ₁₀ (mm)	1080 - 1285 - 1435 - 1585		
	DIMENSIONS	4.2	Height, mast lowered	h ₁ (mm)	4240	4740
4.4		Lift	h ₃ (mm)	8820	10140	11640
4.5		Height, mast extended	h ₄ (mm)	11877	13197	14697
4.7		Height of overhead guard (cabin)	h ₆ (mm)	3020		
4.8		Seat height relating to SIP/stand height	h ₇ (mm)	425		
4.11		Additional Lift	h ₉ (mm)	1980 - 2140 - 2720 - 3000		
4.14		Stand height, elevated	h ₁₂ (mm)	9245	10565	12065
4.15		Height, lowered	h ₁₃ (mm)	80		
4.19		Overall length ⁽⁶⁾ ⁽⁸⁾	l ₁ (mm)	3818 ⁽²⁾	3948 ⁽³⁾	4143 ⁽³⁾
4.20		Length to face of forks ⁽⁹⁾	l ₂ (mm)	4764 ⁽²⁾	4894 ⁽³⁾	5089 ⁽³⁾
4.21		Overall width	b ₁ /b ₂ (mm)	1220 / 1220 - 1425 - 1575 - 1725		
4.22		Fork dimensions ⁽⁴⁾	s/e/l (mm)	45 / 100 / 1200		
4.23		Fork carriage ISO 2328, class/type A, B		No		
4.24		Fork-carriage width	b ₃ (mm)	720		
4.25		Distance between fork-arms	b ₅ (mm)	508 + 720		
4.27		Width across guide rollers	b ₆ (mm)	1275 - 1475 - 1625 - 1775		
4.29		Reach, lateral	b ₇ (mm)	990 - 1190 - 1340 - 1490		
4.30		Reach, lateral from vehicle centreline	b ₈ (mm)	390 - 490 - 565 - 640		
4.31		Ground clearance, laden, below mast	m ₁ (mm)	70		
4.32		Ground clearance, center of wheelbase	m ₂ (mm)	75		
4.34.2		Aisle width for pallets 800mm x 1200mm lengthwise ⁽⁵⁾	Ast (mm)	1600		
4.35		Turning radius	Wa (mm)	2370	2495	2685
4.38		Distance to swiveling-fork pivot ⁽⁴⁾	l ₈ (mm)	1101 ⁽²⁾	1101 ⁽³⁾	
4.39		Length rotator arm	n (mm)	670		
4.40	Width traverse frame	B (mm)	1200 - 1400 - 1550 - 1700			
4.41	Lost rotator width	F (mm)	210			
4.42	Transfer aisle width pallet 1200 x 1200 mm ⁽⁷⁾	Au (mm)	4410 ⁽²⁾	4540 ⁽³⁾	4735 ⁽³⁾	
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	10.4 / 10.5		
	5.2	Lift speed, laden/unladen	m/s	0.35 / 0.4		
	5.3	Lowering speed, laden/unladen	m/s	0.60 / 0.60		
	5.4	Reaching speed, laden/unladen	m/s	0.19 / 0.20		
	5.7	Gradeability, laden/unladen	%	6		
	5.10	Service brake		Electric / mechanical		
ELECTRIC	6.1	Drive motor, S2 60 minute rating	kW	8		
	6.2	Lift motor, S3 15% rating	kW	2 x 19.1		
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		A		
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)	80/560 ⁽¹³⁾	80/700 ⁽¹⁴⁾	80/840 ⁽¹⁵⁾
	6.5	Battery weight ⁽¹⁰⁾	Kg	1547	1872	2206
OTHER	8.1	Type of drive unit		AC ~ MOSFET		
	10.1	Operating pressure for attachments	bar	150		
	10.2	Oil volume for attachments	l/min	6		
	10.7	Sound pressure level at the driver's seat	dB (A)	< 70		

(12) Available battery 80V / 465Ah (1340kg)

(13) Available battery 80V / 620Ah (1630kg), Li-ion battery 80V / 432Ah (1558kg)

(14) Available battery 80V / 775Ah (2004kg), Li-ion battery 80V / 720Ah (1863kg)

(15) Available battery 80V / 930Ah (2295kg), Li-ion battery 80V / 576Ah (2178kg), Li-ion battery 80V / 720Ah (2178kg)

(16) Available battery 48V / 620Ah (950kg), 48V / 700Ah (1119kg), 48V / 775Ah (1165kg), Li-ion battery 48V / 360Ah (937kg), Li-ion battery 48V / 432Ah (937kg), Li-ion battery 48V / 432Ah (939kg), Li-ion battery 48V / 576Ah (1119kg)

(17) Available Li-ion battery 80V / 720Ah (1468kg)

All values are nominal values and they are subject to tolerances.

MAST DIMENSIONS – MTC10, MTC13, MTC13 80, MTC13 LWB, MTC15 SWB

Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₄ (mm)	Free lift h ₂ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
2-Stage Triform							
5235	2740	3020	1980	3180	6237	6200	3605
5735	2990	3020	1980	3680	6737	6700	4105
6235	3240	3020	1980	4180	7237	7200	4605
6335	3290	3020	1980	4280	7337	7300	4705
6735	3490	3020	1980	4680	7737	7700	5105
6935	3590	3020	1980	4880	7937	7900	5305
7235	3740	3020	1980	5180	8237	8200	5605
7535	3890	3020	1980	5480	8537	8500	5905
7735	3990	3020	1980	5680	8737	8700	6105
8035	4140	3020	1980	5980	9037	9000	6405
8135	4190	3020	1980	6080	9137	9100	6505
8235	4240	3020	1980	6180	9237	9200	6605
8535	4390	3020	1980	6480	9537	9500	6905
8735	4490	3020	1980	6680	9737	9700	7105
9035	4640	3020	1980	6980	10037	10000	7405
9235	4740	3020	1980	7180	10237	10200	7605
9335	4790	3020	1980	7280	10337	10300	7705
9535	4890	3020	1980	7480	10537	10500	7905
9735	4990	3020	1980	7680	10737	10700	8105
9915	5240	3020	1980	7860	10917	10880	8285
10215	5390	3020	1980	8160	11217	11180	8585
10515	5540	3020	1980	8460	11517	11480	8885
10915	5740	3020	1980	8860	11917	11880	9285
11415	5990	3020	1980	9360	12417	12380	9785
11615	6090	3020	1980	9560	12617	12580	9985
11915	6240	3020	1980	9860	12917	12880	10285
12315	6440	3020	1980	10260	13317	13280	10685

MAST DIMENSIONS – MTC13, MTC13 80, MTC13 LWB, MTC15 SWB

Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₄ (mm)	Free lift h ₂ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
3-Stage Triform							
5625	2490	3020	1980	3570	6627	6590	3995
6375	2740	3020	1980	4320	7377	7340	4745
7125	2990	3020	1980	5070	8127	8090	5495
7875	3240	3020	1980	5820	8877	8840	6245
8625	3490	3020	1980	6570	9627	9590	6995
9375	3740	3020	1980	7320	10377	10340	7745
10125	3990	3020	1980	8070	11127	11090	8495
10875	4240	3020	1980	8820	11877	11840	9245
11625	4490	3020	1980	9570	12627	12590	9995
12375	4740	3020	1980	10320	13377	13340	10745

MAST DIMENSIONS – MTC15 MWB, MTC15 LWB

Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₄ (mm)	Free lift h ₂ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
2-Stage Quadform							
5415	2990	3020	1980	3360	6417	6380	3785
5915	3240	3020	1980	3860	6917	6880	4285
6415	3490	3020	1980	4360	7417	7380	4785
6915	3740	3020	1980	4860	7917	7880	5285
7415	3990	3020	1980	5360	8417	8380	5785
7915	4240	3020	1980	5860	8917	8880	6285
8415	4490	3020	1980	6360	9417	9380	6785
8915	4740	3020	1980	6860	9917	9880	7285
9415	4990	3020	1980	7360	10417	10380	7785
9915	5240	3020	1980	7860	10917	10880	8285
10215	5390	3020	1980	8160	11217	11180	8585
10915	5740	3020	1980	8860	11917	11880	9285
11415	5990	3020	1980	9360	12417	12380	9785
11915	6240	3020	1980	9860	12917	12880	10285
12315	6440	3020	1980	10260	13317	13280	10685

MAST DIMENSIONS – 3 STAGE QUADFORM – MTC15 MWB, MTC15 LWB

Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Free lift h ₇ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
3-Stage Quadform							
6945	2990	3020	1980	4890	7947	7910	7910
7695	3240	3020	1980	5640	8697	8660	8660
8445	3490	3020	1980	6390	9447	9410	9410
9195	3740	3020	1980	7140	10197	10160	10160
9945	3990	3020	1980	7890	10947	10910	10910
10695	4240	3020	1980	8640	11697	11660	11660
11445	4490	3020	1980	9390	12447	12410	12410
12195	4740	3020	1980	10140	13197	13160	13160
12945	4990	3020	1980	10890	13947	13910	13910
13695	5240	3020	1980	11640	14697	14660	14660
15945	5990	3020	1980	13890	16947	16910	16910

AUXILIARY MINI MAST OPTIONS – MTC SERIES

Free lift h ₇ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Delta H (mm)	Extended height with h ₃ = 0 h ₆ ' (mm)	Delta h ₆ (mm)	Delta h ₇ (mm)	h ₆ ' - h ₆ (mm)	Delta h ₄ ' (mm)	Delta h ₄ (mm)	Mini Mast CL (mm)
1980	2950	1980	1980	2950	1980	-970	2950	2950	2950
2140	2950	2140	2140	2950	2140	-810	2140	2950	2950
2720	3515	2720	2720	3515	2720	-795	2720	3515	3515
3000	3795	3000	3000	3795	3000	-795	3000	3795	3795

STARTING DATA – MTC SERIES

h ₁₃	75mm
Ground nose height	1077mm
Distance points nose forks	1002mm
h ₇	425mm
h ₁₃ Mini Mast CL	70mm
m ₁	100mm

All values are nominal values and they are subject to tolerances.



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