

MTC series

1,000kg / 1,300kg / 1,500kg

Very Narrow Aisle Turret Truck



- Integrated pantograph (reduced operating aisle)
- Sealed Yale AC motors
- High performance
- Ergonomic operating environment
- Seated or standing operation
- Choice of forward mounted or seat side control
- Simultaneous controls, patented hydraulic control system

VDI 2198 - General Specifications MTC10, MTC13, MTC13 80, MTC13 LWB, MTC15 SWB, MTC15 LWB

Distinguishing mark	1.1	Manufacturer (abbreviation)		Yale	Yale	Yale
	1.2	Manufacturer's type designation		MTC10	MTC13	MTC13 80
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric (battery)	Electric (battery)	Electric (battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated / Standing	Seated / Standing	Seated / Standing
	1.5	Rated capacity/Rated load	Q (t)	1.0	1.3	1.3
	1.6	Load centre distance	c (mm)	600	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	431 ⁽²⁾	431 ⁽²⁾	431 ⁽²⁾
	1.9	Wheelbase	y (mm)	1783	1943	1943
	Weights	2.1	Service weight	kg	6820 ⁽¹⁾	7313 ⁽¹⁾
2.2		Axle loading, laden front/rear	kg	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾
2.3		Axle loading, unladen front/rear	kg	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾
2.4		Axle loading, fork advanced, laden front/rear	kg	TBD / TBD	TBD / TBD	TBD / TBD
2.5		Axle loading, fork retracted, laden front/rear	kg	TBD / TBD	TBD / TBD	TBD / TBD
Tyres / chassis	3.1	Tyres: polyurethane, tophane, vulkollan, front/rear		polyurethane / polyurethane	polyurethane / polyurethane	polyurethane / polyurethane
	3.2	Tyre size, front	ø (mm x mm)	350 x 140	350 x 140	350 x 140
	3.3	Tyre size, rear	ø (mm x mm)	400 x 160	400 x 160	400 x 160
	3.5	Wheels, number front/rear (x = driven wheels)		2 / 1 (x)	2 / 1(x)	2 / 1(x)
	3.6	Tread, front	b10 (mm)	1080 / 1285 / 1435 / 1585	1080 / 1285 / 1435 / 1585	1080 / 1285 / 1435 / 1585
	Dimensions	4.2	Height, mast lowered	h1 (mm)	3290	2490
4.4		Lift	h3 (mm)	4280	3570	8070
4.5		Height, mast extended	h4 (mm)	7337	6627	11127
4.7		Height of overhead guard (cabin)	h6 (mm)	3020	3020	3020
4.8		Seat height relating to SIP/stand height	h7 (mm)	425	425	425
4.11		Additional Lift	h9 (mm)	1980 / 2140 / 2720 / 3000	1980 / 2140 / 2720 / 3000	1980 / 2140 / 2720 / 3000
4.14		Stand height, elevated	h12 (mm)	4705	3995	8495
4.15		Height, lowered	h13 (mm)	80	80	80
4.19		Overall length ⁽⁸⁾	l1 (mm)	3538 ⁽⁶⁾	3698 ⁽²⁾⁽⁶⁾	3698 ⁽²⁾⁽⁶⁾
4.20		Length to face of forks ⁽⁹⁾	l2 (mm)	4484 ⁽²⁾	4644 ⁽²⁾	4644 ⁽²⁾
4.21		Overall width	b1/b2 (mm)	1220/1220 / 1425 / 1575 / 1725	1220/1220 / 1425 / 1575 / 1725	1220/1220 / 1425 / 1575 / 1725
4.22		Fork dimensions DIN ISO 2331	s/e/l (mm)	45 / 100 / 1200 ⁽⁴⁾	45 / 100 / 1200 ⁽⁴⁾	45 / 100 / 1200 ⁽⁴⁾
4.23		Fork carriage ISO 2328, class/type A, B		No	No	No
4.24		Fork-carriage width	b3 (mm)	720	720	720
4.25		Distance between fork-arms	b5 (mm)	508 ÷ 720	508 ÷ 720	508 ÷ 720
4.27		Width across guide rollers	b6 (mm)	1275 / 1475 / 1625 / 1775	1275 / 1475 / 1625 / 1775	1275 / 1475 / 1625 / 1775
4.29		Reach, lateral	b7 (mm)	990 / 1190 / 1340 / 1490	990 / 1190 / 1340 / 1490	990 / 1190 / 1340 / 1490
4.31		Ground clearance, laden, below mast	m1 (mm)	100	100	100
4.32		Ground clearance, centre of wheelbase	m2 (mm)	75	75	75
4.34.2		Aisle width for pallets 800mm x 1200mm lengthwise	Ast (mm)	1600 ⁽⁵⁾	1600 ⁽⁵⁾	1600 ⁽⁵⁾
4.35	Turning radius	Wa (mm)	2100	2250	2250	
4.38	Distance to swiveling-fork pivot	l8 (mm)	1101 ^{(2) (6)}	1101 ^{(2) (6)}	1101 ^{(2) (6)}	
4.39	Length rotator arm	n (mm)	670	670	670	
4.40	Width traverse frame	B (mm)	1200 / 1400 / 1550 / 1700	1200 / 1400 / 1550 / 1700	1200 / 1400 / 1550 / 1700	
4.41	Lost rotator width	F (mm)	210	210	210	
4.42	Transfer aisle width pallet 1200mm x 1200mm	Au (mm)	4140 ⁽²⁾	4295 ⁽²⁾	4295 ⁽²⁾	
Performance data	5.1	Travel speed, laden/unladen	km/h	9.9 / 10	10.4 / 10.5	10.4 / 10.5
	5.2	Lift speed, laden/unladen	m/s	0.33 / 0.42	0.33 / 0.42	0.36 / 0.42
	5.3	Lowering speed, laden/unladen	m/s	0.50 / 0.50	0.50 / 0.50	0.60 / 0.60
	5.4	Reaching speed, laden/unladen	m/s	0.19 / 0.20	0.19 / 0.20	0.19 / 0.20
	5.7	Gradeability, laden/unladen	%	6	6	6
	5.10	Service brake		electric / mechanical	electric / mechanical	electric / mechanical
Electric engine	6.1	Drive motor S2 60 minute rating	kW	7.5	7.5	8
	6.2	Lift motor S3 15% rating ⁽¹¹⁾	kW	2 x 12	2 x 12	2 x 15
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		DIN B, DIN C, DIN C	no, DIN B, DIN C, no, no	DIN A
	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48/560, 48/560, 48/700	48/625, 48/700, 48/840, 48/930, 48/1085	80/420
	6.5	Battery weight ⁽¹⁰⁾	kg	950 / 1000 / 1300	1400 / 1360 / 1360	1360
8.1	Type of drive unit		AC ~ MOSFET	AC ~ MOSFET	AC ~ MOSFET	
Addition data	10.1	Operating pressure for attachments	bar	150	150	150
	10.2	Oil volume for attachments	l / min	6	6	6
	10.7	Sound pressure level at the driver's seat	dB (A)	< 70	< 70	< 70

⁽¹⁾ Values for truck type / mast height

⁽²⁾ +76mm for 3 stage mast with "n"=670 (MTC10, MTC13, MTC1380, MTC13LWB, MTC15SWB)

⁽³⁾ +150mm for 3 stage mast with "n"=670mm (MTC15MWB, MTC15LWB)

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

⁽⁵⁾ Ast: load dimension function

⁽⁶⁾ -100mm for "n"=570mm

⁽⁷⁾ Au = R + Wa + 200mm

⁽⁸⁾ Forks nested

⁽⁹⁾ Forks forward = 1200mm fork length

⁽¹⁰⁾ These values may vary of +/- 5%

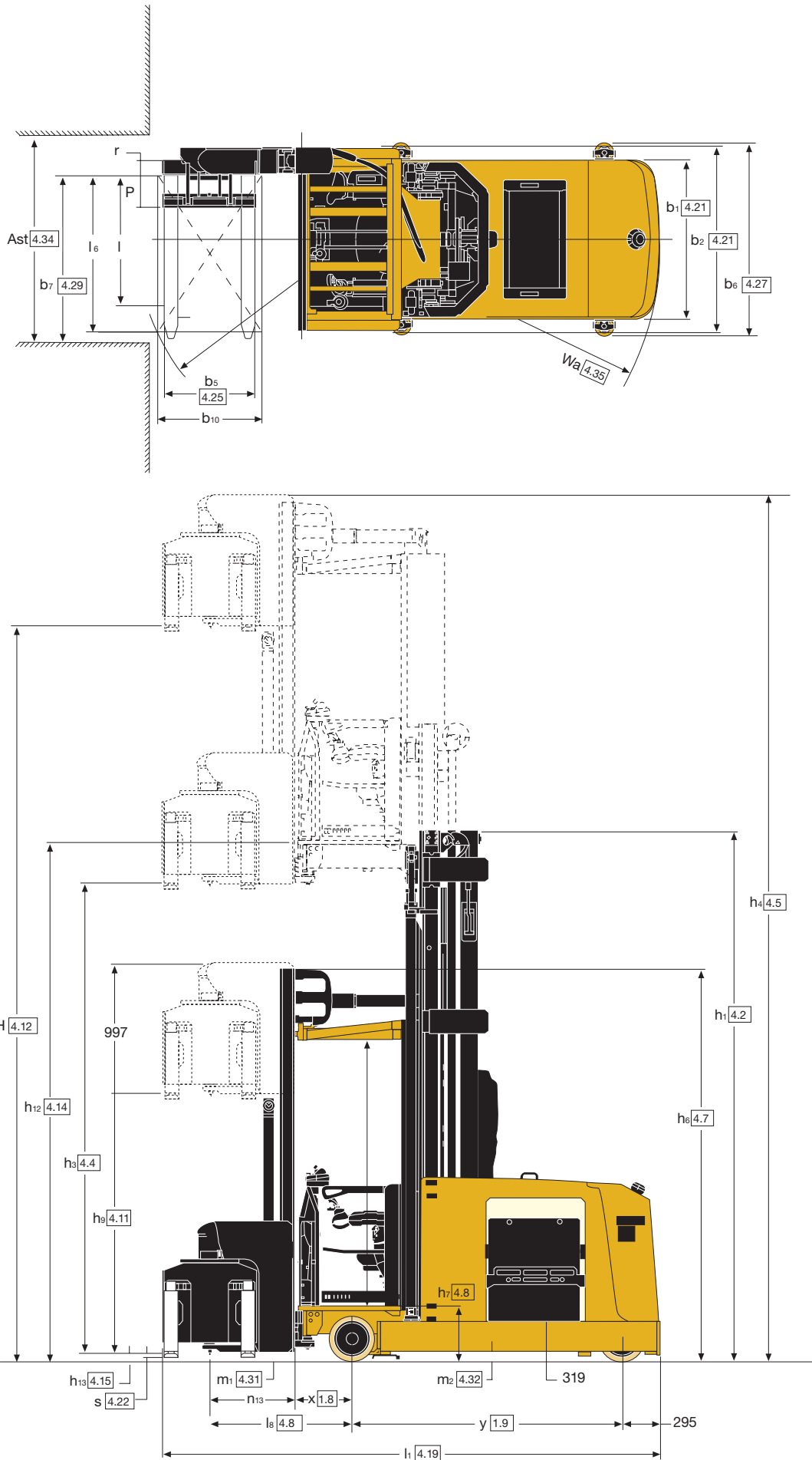
⁽¹¹⁾ Value referred to S3 25%

Yale	Yale	Yale	Yale		Manufacturer (abbreviation)	1.1	Distinguishing mark
MTC13 LWB	MTC15 SWB	MTC15 MWB	MTC15 LWB		Manufacturer's type designation	1.2	
Electric (battery)	Electric (battery)	Electric (battery)	Electric (battery)		Drive: electric (battery or mains), diesel, petrol, fuel gas	1.3	
Seated / Standing	Seated / Standing	Seated / Standing	Seated / Standing		Operator type: hand, pedestrian, standing, seated, order-picker	1.4	
1.3	1.5	1.5	1.5	Q (t)	Rated capacity/Rated load	1.5	
600	600	600	600	c (mm)	Load centre distance	1.6	
431 ⁽²⁾	431 ⁽²⁾	431 ⁽³⁾	431 ⁽³⁾	x (mm)	Load distance, centre of drive axle to fork	1.8	
2063	2063	2193	2388	y (mm)	Wheelbase	1.9	
8761 ⁽¹⁾	8753 ⁽¹⁾	9660 ⁽¹⁾	10315 ⁽¹⁾	kg	Service weight	2.1	
TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	kg	Axle loading, laden front/rear	2.2	
TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	TBD ⁽¹⁾ / TBD ⁽¹⁾	kg	Axle loading, unladen front/rear	2.3	
TBD / TBD	TBD / TBD	TBD / TBD	TBD / TBD	kg	Axle loading, fork advanced, laden front/rear	2.4	
TBD / TBD	TBD / TBD	TBD / TBD	TBD / TBD	kg	Axle loading, fork retracted, laden front/rear	2.5	
polyurethane / polyurethane	polyurethane / polyurethane	polyurethane / polyurethane	polyurethane / polyurethane		Tyres: polyurethane, tophane, vulkollan, front/rear	3.1	
350 x 140	350 x 140	350 x 140	350 x 140	ø (mm x mm)	Tyre size, front	3.2	
406 x 178	406 x 178	406 x 178	406 x 178	ø (mm x mm)	Tyre size, rear	3.3	
2 / 1(x)	2 / 1(x)	2 / 1(x)	2 / 1(x)		Wheels, number front/rear (x = driven wheels)	3.5	
1080 / 1285 / 1435 / 1585	1080 / 1285 / 1435 / 1585	1080 / 1285 / 1435 / 1585	1080 / 1285 / 1435 / 1585	b10 (mm)	Tread, front	3.6	
4240	5740	4740	5240	h1 (mm)	Height, mast lowered	4.2	
8820	8860	10140	11640	h3 (mm)	Lift	4.4	
11877	11917	13197	14697	h4 (mm)	Height, mast extended	4.5	
3020	3020	3020	3020	h6 (mm)	Height of overhead guard (cabin)	4.7	
425	425	425	425	h7 (mm)	Seat height relating to SIP/stand height	4.8	
1980 / 2140 / 2720 / 3000	1980 / 2140 / 2720 / 3000	1980 / 2140 / 2720 / 3000	1980 / 2140 / 2720 / 3000	h9 (mm)	Additional Lift	4.11	
9245	9285	10565	12065	h12 (mm)	Stand height, elevated	4.14	
80	80	80	80	h13 (mm)	Height, lowered	4.15	
3818 ⁽²⁾ (3) (6)	3818 ⁽²⁾ (3) (6)	3948 ⁽³⁾ (6)	4143 ⁽³⁾ (6)	l1 (mm)	Overall length ⁽⁸⁾	4.19	
4764 ⁽²⁾	4764 ⁽²⁾	4894 ⁽³⁾	5089 ⁽³⁾	l2 (mm)	Length to face of forks ⁽⁹⁾	4.20	
1220/1220 / 1425 / 1575 / 1725	1220/1220 / 1425 / 1575 / 1725	1220/1220 / 1425 / 1575 / 1725	1220/1220 / 1425 / 1575 / 1725	b1/b2 (mm)	Overall width	4.21	
45 / 100 / 1200 ⁽⁴⁾	45 / 100 / 1200 ⁽⁴⁾	45 / 100 / 1200 ⁽⁴⁾	45 / 100 / 1200 ⁽⁴⁾	s/e/l (mm)	Fork dimensions DIN ISO 2331	4.22	
No	No	No	No		Fork carriage ISO 2328, class/type A, B	4.23	
720	720	720	720	b3 (mm)	Fork-carriage width	4.24	
508 ÷ 720	508 ÷ 720	508 ÷ 720	508 ÷ 720	b5 (mm)	Distance between fork-arms	4.25	
1275 / 1475 / 1625 / 1775	1275 / 1475 / 1625 / 1775	1275 / 1475 / 1625 / 1775	1275 / 1475 / 1625 / 1775	b6 (mm)	Width across guide rollers	4.27	
990 / 1190 / 1340 / 1490	990 / 1190 / 1340 / 1490	990 / 1190 / 1340 / 1490	990 / 1190 / 1340 / 1490	b7 (mm)	Reach, lateral	4.29	
100	100	100	100	m1 (mm)	Ground clearance, laden, below mast	4.31	
75	75	75	75	m2 (mm)	Ground clearance, centre of wheelbase	4.32	
1600 ⁽⁵⁾	1600 ⁽⁵⁾	1600 ⁽⁵⁾	1600 ⁽⁵⁾	Ast (mm)	Aisle width for pallets 800mm x 1200mm lengthwise	4.34.2	
2370	2370	2495	2685	Wa (mm)	Turning radius	4.35	
1101 ⁽²⁾ (6)	1101 ⁽²⁾ (6)	1101 ⁽³⁾ (6)	1101 ⁽³⁾ (6)	l8 (mm)	Distance to swiveling-fork pivot	4.38	
670	670	670	670	n (mm)	Length rotator arm	4.39	
1200 / 1400 / 1550 / 1700	1200 / 1400 / 1550 / 1700	1200 / 1400 / 1550 / 1700	1200 / 1400 / 1550 / 1700	B (mm)	Width traverse frame	4.40	
210	210	210	210	F (mm)	Lost rotator width	4.41	
4410 ⁽²⁾	4410 ⁽²⁾	4540 ⁽³⁾	4735 ⁽³⁾	Au (mm)	Transfer aisle width pallet 1200mm x 1200mm	4.42	
10.4 / 10.5	10.4 / 10.5	10.4 / 10.5	10.4 / 10.5	km/h	Travel speed, laden/unladen	5.1	
0.36 / 0.42	0.36 / 0.42	0.35 / 0.40	0.35 / 0.40	m/s	Lift speed, laden/unladen	5.2	
0.50 / 0.50	0.60 / 0.60	0.60 / 0.60	0.60 / 0.60	m/s	Lowering speed, laden/unladen	5.3	
0.19 / 0.20	0.19 / 0.20	0.19 / 0.20	0.19 / 0.20	m/s	Reaching speed, laden/unladen	5.4	
6	6	6	6	%	Gradeability, laden/unladen	5.7	
electric / mechanical	electric / mechanical	electric / mechanical	electric / mechanical		Service brake	5.10	
7.5	8	8	8	kW	Drive motor S2 60 minute rating	6.1	
2 x 12	2 x 15	2 x 15	2 x 15	kW	Lift motor S3 15% rating ⁽¹¹⁾	6.2	
no, no, no, no,	no, no, DIN A	DIN A, no, no	DIN A, no, no, no		Battery according to DIN 43531/35/36 A,B,C, no	6.3	
48/875, 48/1000, 48/1085, 48/1240	72/625, 72/775, 80/560	80/700, 72/750, 72/780	80/840, 72/875, 72/1000, 72/1240	(V) / (Ah)	Battery voltage/nominal capacity K5	6.4	
1400 / 1640, 1580 / 1792	815, 855, 1600	1900, 940, 967	1900, 1070, 1253, 1320	kg	Battery weight ⁽¹⁰⁾	6.5	
AC ~ MOSFET	AC ~ MOSFET	AC ~ MOSFET	AC ~ MOSFET		Type of drive unit	8.1	
150	150	150	150	bar	Operating pressure for attachments	10.1	
6	6	6	6	l / min	Oil volume for attachments	10.2	
< 70	< 70	< 70	< 70	dB (A)	Sound pressure level at the driver's seat	10.7	

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.
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 Lift trucks illustrated may feature optional equipment.

Values may vary with alternative configurations.

Truck Dimensions



Mast details - 2 stage Triform

Model	Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Free lift h ₉ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
MTC10 MTC13 MTC13 80 MTC13 LWB MTC15 SWB	5235	2740	3020	1980	3180	6237	3605	5235
	5735	2990	3020	1980	3680	6737	4105	5735
	6235	3240	3020	1980	4180	7237	4605	6235
	6335	3290	3020	1980	4280	7337	4705	6335
	6735	3490	3020	1980	4680	7737	5105	6735
	6935	3590	3020	1980	4880	7937	5305	6935
	7235	3740	3020	1980	5180	8237	5605	7235
	7535	3890	3020	1980	5480	8537	5905	7535
	7735	3990	3020	1980	5680	8737	6105	7735
8035	4140	3020	1980	5980	9037	6405	8035	
MTC10 MTC13 MTC13 80 MTC13 LWB MTC15 SWB	8135	4190	3020	1980	6080	9137	6505	8135
	8235	4240	3020	1980	6180	9237	6605	8235
	8535	4390	3020	1980	6480	9537	6905	8535
	8735	4490	3020	1980	6680	9737	7105	8735
	9035	4640	3020	1980	6980	10037	7405	9035
	9235	4740	3020	1980	7180	10237	7605	9235
	9335	4790	3020	1980	7280	10337	7705	9335
	9535	4890	3020	1980	7480	10537	7905	9535
	9735	4990	3020	1980	7680	10737	8105	9735
	9915	5240	3020	1980	7860	10917	8285	9915
	10215	5390	3020	1980	8160	11217	8585	10215
	10515	5540	3020	1980	8460	11517	8885	10515
	10915	5740	3020	1980	8860	11917	9285	10915
	11415	5990	3020	1980	9360	12417	9785	11415
	11615	6090	3020	1980	9560	12617	9985	11615
11915	6240	3020	1980	9860	12917	10285	11915	
12315	6440	3020	1980	10260	13317	10685	12315	

Mast details - 3 stage Triform

Model	Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Free lift h ₉ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
MTC13 MTC13 80 MTC13 LWB MTC15 SWB	5625	2490	3020	1980	3570	6627	3995	5625
	6375	2740	3020	1980	4320	7377	4745	6375
	7125	2990	3020	1980	5070	8127	5495	7125
	7875	3240	3020	1980	5820	8877	6245	7875
	8625	3490	3020	1980	6570	9627	6995	8625
	9375	3740	3020	1980	7320	10377	7745	9375
	10125	3990	3020	1980	8070	11127	8495	10125
	10875	4240	3020	1980	8820	11877	9245	10875
	11625	4490	3020	1980	9570	12627	9995	11625
12375	4740	3020	1980	10320	13377	10745	12375	

Mast details - 2 stage Quadform

Model	Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Free lift h ₉ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
MTC15 MWB MTC15 LWB	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

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Lift trucks illustrated may feature optional equipment.

Values may vary with alternative configurations.

Mast details - 3 stage Quadform

Model	Maximum fork height H (mm)	Overall lowered height h ₁ (mm)	Overall lowered height (Mini Mast) h ₆ (mm)	Free lift h ₉ (mm)	Main lift h ₃ (mm)	Extended height with load backrest h ₄ (mm)	Extended height h ₄ (mm)	Platform height h ₁₂ (mm)
MTC15 MWB MTC15 LWB	6945	2990	3020	1980	4890	7947	7910	5315
	7695	3240	3020	1980	5640	8697	8660	6065
	8445	3490	3020	1980	6390	9447	9410	6815
	9195	3740	3020	1980	7140	10197	10160	7565
	9945	3990	3020	1980	7890	10947	10910	8315
	10695	4240	3020	1980	8640	11697	11660	9065
	11445	4490	3020	1980	9390	12447	12410	9815
	12195	4740	3020	1980	10140	13197	13160	10565
	12945	4990	3020	1980	10890	13947	13910	11315
	13695	5240	3020	1980	11640	14697	14660	12065
15945	5990	3020	1980	13890	16947	16910	14315	

Auxiliary Mini Mast Options

Free lift h ₉ (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 ₉ (mm)	h ₆ ' - h ₆ (mm)	Delta h ₄ ' (mm)	Delta h ₄ (mm)	Mini Mast CL (mm)
3020	3020	3020	3020	3020	3020	3020	3020	3020	3020
3020	3020	3020	3020	3020	3020	3020	3020	3020	3020
3585	3585	3585	3585	3585	3585	3585	3585	3585	3585
3865	3865	3865	3865	3865	3865	3865	3865	3865	3865

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Starting data

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

MTC series

Models: MTC10, MTC13, MTC13 80, MTC13 LWB, MTC15 SWB, MTC15 MWB, MTC15 LWB,



Forward mounted controls

Operator controls are adjustable in height, angle and plane, allowing perfect ergonomic operation in both seated and standing positions. Each truck function can be controlled without re-positioning the hands. Proportional control affords total control of the machine and turret head at all times allowing simultaneous multiple truck movements.

Seat sided controls

Seat side controls (optional) give the operator the ideal driving position with ultimate comfort, specifically designed for extended shift periods requiring a high through rate of pallet movements.

Drivers cabin

The cabin is equipped with a soft, non-slip rubber floor mat providing extra operator comfort. A large operator presence foot sensor mounted under the mat allows freedom of movement without confinement to a single position. The luxury driver's seat is height adjustable with an ergonomically designed high backrest, thick padding, 20 degrees of rotation with spring loaded return to centre plus 3 different locking positions. The operator can comfortably turn while traveling in the reverse direction. The fold up seat is padded on the underside allowing it to be used as a backrest while operating in the the standing position.

Visibility

The front lean bar with integrated screen allows full and un-obscured visibility of the forks, pallet and racking at all times, reducing the risk of product damage and allowing the operator to remain in a comfortable driving position.

Steering

Electronic steering utilizes direct drive to the steer wheel through a gear, employing an automotive style wheel with integral steering knob or optional return to centre steering.

Auto centering with system check and calibration on 'power up' eliminates operator error when starting off.

Turret head

Designed for pallet handling in three different directions, configurations are available for various pallet dimensions. Top and bottom mounting of the turret head gives excellent load stability at all times and at all lift heights. An integral pantograph hidden in the fork carriage allows the truck to operate in the smallest

of aisles with maximum side operating clearances. Various different lift heights enable truck configurations to suit a customers' specific application. The truck features automatic synchronous fork rotation with operator graphical feedback on the user interface display.

Masts

Duplex or triplex masts in both a tri-form or quad-form provide excellent mast rigidity and stability, using a series of torsion tubes. The triplex mast is perfect for low door clearances or overhead obstruction which require a low closed height. The MTC15 SWB and MTC15 LWB utilize the Yale patented four point quad-form mast which provides exceptional rigidity at the highest of heights for operator comfort, stability and minimum aisle requirements. Rectangular steel cross members give torsional rigidity and minimise deflection enabling a reach height exceeding 16,000mm

AC technology

Three phase AC technology is employed on all traction and steering hydraulic motors. All four motors are sealed to prevent dust or dirt ingress to improve long term reliability and performance.

Brakes

Regenerative braking provides high efficiency and maintenance free braking without wear to any of the components. An electric magnetic braking system secures the truck when stationary.

Hydraulics

The truck is equipped with proportional valve technology providing smooth control and movement of turret head functions. Two powerful hydraulic lift motors provide independent power, or they can be linked to allow ultimate control whilst operating any of the truck's functions simultaneously.

CAN-Bus communication system

All sensors, controls, hydraulic actuators and motor controls are networked together to share information and communicate with one another. Elimination of multiple wiring improves reliability, performing an array of truck functions for safe, controllable and rapid operation of the machine. Cabin height, turret head position and truck movement are continuously monitored so each function can operate at its optimum level. Operator pin numbers can give different performance settings to suit driver abilities and prevent unauthorized

access. Service functions give engineers a comprehensive information and diagnostics, from current draws on motors to a history log of faults.

Guidance

Trucks are equipped with external guide wheels and an automatic aisle detection for rail guided applications. For Wire Guided applications, the truck quickly locks onto the wire when entering an aisle, if the guidance system isn't switched on, traction automatically reduces. If the truck is switched off while on the system, it automatically switches back onto the guidance system on re-start.

Options

- Cold storage -40°C
- Shuttle table
- Pre-height selector
- Radio Data terminal wiring and bracket
- End of aisle controls
- Passcode start
- Mirrors
- Load wheel braking
- Zero thickness hydraulic fork positioner.
- Programmable cabin lift interrupts with override
- Seat side controls

Note:

- SWB = Short Wheel Base
- MWB = Medium Wheel Base
- LWB = Long Wheel Base

MTC series

Models: MTC10, MTC13, MTC13 80, MTC13 LWB, MTC15 SWB,
MTC15 MWB, MTC15 LWB,



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Safety: This truck conforms to the current EU requirements. Specification is subject to change without notice.

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