



MC10-15

SPEC SHEET

1,000 - 1,500 kg

MC Series

Counterbalanced
Stacker

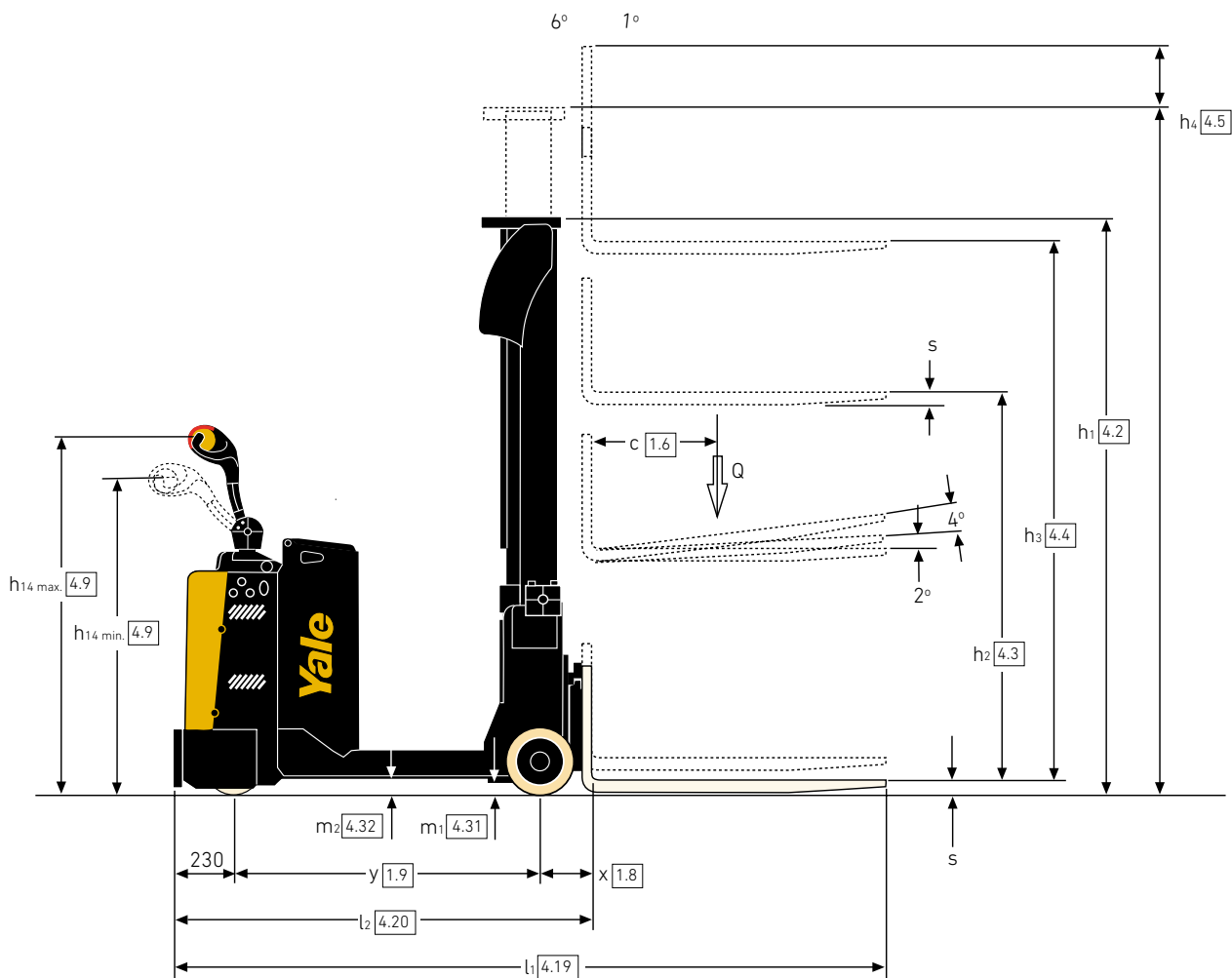
TRUCK DIMENSIONS – MC SERIES

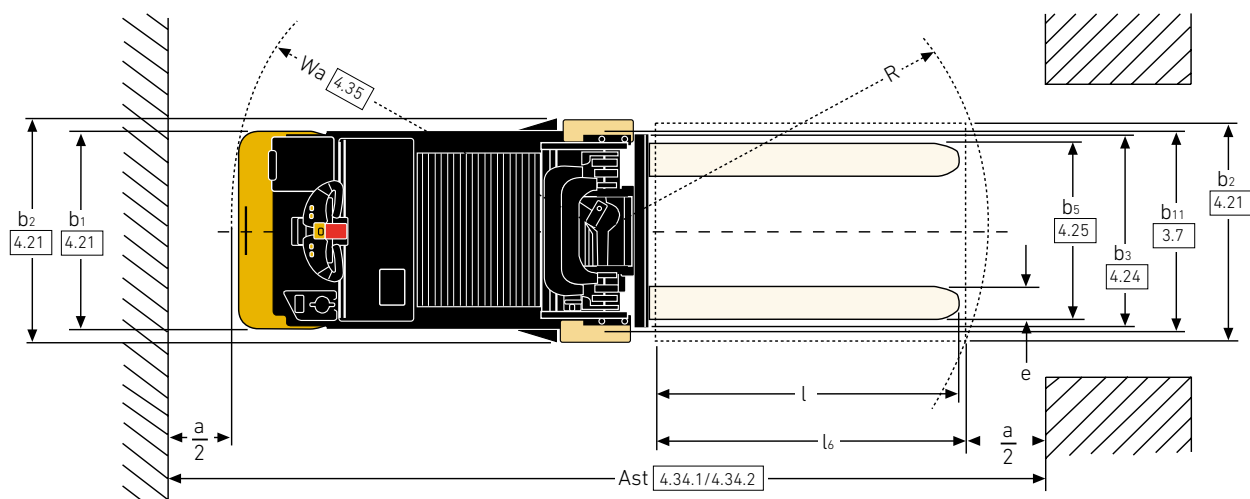
$$Ast = Wa + R + a$$

$$R = \sqrt{(l_6 + x)^2 + \frac{(b_{12})^2}{2}}$$

$a = 200\text{mm}$

$l_6 = \text{Load length}$





VDI 2198 – GENERAL SPECIFICATIONS – MC SERIES

GENERAL	1.1	Manufacturer		Yale		
	1.2	Model designation		MC10	MC12	MC15
	1.3	Drive		Battery		
	1.4	Operator type		Pedestrian		
	1.5	Rated capacity/Rated load	Q (t)	1.0	1.2	1.5
	1.6	Load centre distance	c (mm)	500		
	1.8	Load distance, centre of drive axle to fork	x (mm)	211		
	1.9	Wheelbase	y (mm)	1300	1450	1600
WEIGHT	2.1	Service weight ⁽¹⁾	kg	2180	2280	2360
	2.2	Axle loading, laden front/rear	kg	520 / 2660	545 / 2935	515 / 3345
	2.3	Axle loading, unladen front/rear	kg	1175 / 1005	1290 / 990	1420 / 940
TYRES	3.1	Tyres front/rear		NDIIThane		
	3.2	Tyre size, front	ø (mm x mm)	254 x 125		
	3.3	Tyre size, rear	ø (mm x mm)	200 x 100		
	3.5	Wheels, number front/rear (x = driven wheels)		1x/2		
	3.7	Tread, rear	b ₁₁ (mm)	837		
DIMENSIONS	4.2	Height, mast lowered ⁽²⁾	h ₁ (mm)	2325		
	4.3	Free lift	h ₂ (mm)	100		
	4.4	Lift	h ₃ (mm)	3372		
	4.5	Height, mast extended ⁽³⁾	h ₄ (mm)	3961		
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2312		
	4.9	Height drawbar in driving position min./max. ⁽⁴⁾	h ₁₄ (mm)	1180 / 1485		
	4.15	Height, lowered	h ₁₃ (mm)	55		
	4.19	Overall length	l ₁ (mm)	2742	2892	3042
	4.20	Length to face of forks	l ₂ (mm)	1742	1892	2042
	4.21	Overall width	b ₁ /b ₂ (mm)	788 / 939		
	4.22	Fork dimensions DIN ISO 2331 ⁽⁵⁾	s/e/l (mm)	35 / 100 / 1000		
	4.24	Fork carriage width	b ₃ (mm)	700		
	4.25	Forks spread	b ₅ (mm)	240 / 672		
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	59		
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	76		
	4.33	Load dimension b ₁₂ x l ₆	b ₁₂ x l ₆ (mm)	800 x 1200		
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	3111	3258	3406
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise	Ast (mm)	3227	3374	3522
	4.35	Turning radius	Wa (mm)	1560	1707	1855
PERFORMANCE	5.1	Travel speed, laden/unladen	km/h	6 / 6		
	5.1.1	Travel speed, laden/unladen, backwards	km/h	6 / 6		
	5.2	Lift speed, laden/unladen	m/s	0,18 / 0,27	0,14 / 0,27	0,13 / 0,27
	5.3	Lowering speed, laden/unladen	m/s	0,33 / 0,27		
	5.8	Max. gradeability, laden/unladen	%	11 / 11	10 / 10	9 / 9
	5.10	Service brake		Electric / Electromagnetic		
ELECTRIC	6.1	Drive motor rating S2 60 min	kW	4		
	6.2	Lift motor rating at S3 15% ⁽⁶⁾	kW	3		
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		no		
	6.4	Battery voltage/nominal capacity K5	V/Ah	24 / 300 ^{(4) (7)}	24 / 400 ⁽⁸⁾	
	6.5	Battery weight ⁽³⁾	kg	233	303	
	6.6	Energy consumption according to DIN EN 16796	kWh/h	1,53	1,97	2,4
	6.7	Turnover output according to VDI 2198	t/h	38	45,6	57
	6.8	Turnover efficiency according to VDI 2198	t/kWh	31		
	8.1	Type of drive unit		AC-Controller		
	10.7	Sound pressure level at the driver's seat	dB (A)	< 70		

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

(2) With free lift of 100mm (2 stage LFL only)

(3) With load backrest for carriage h₄ + 461mm

(4) Available battery 24V / 400Ah (303kg)

(5) Option 35/100/1200

(6) Value referred to S3 10%

(7) Available Li-Ion battery 24V / 180Ah (208kg + ballast 24 kg); Li-Ion battery 24V / 240Ah (214kg + ballast 24kg)

(8) Available Li-Ion battery 24V / 180Ah (208kg + ballast 86kg); Li-Ion battery 24V / 240Ah (214kg + ballast 86kg)

MAST DIMENSIONS – MC SERIES

Height, mast lowered h ₁ ⁽¹⁾ (mm)	Free lift h ₂ (mm)	Lift height h ₃ (mm)	Height, mast extended h ₄ ⁽²⁾ (mm)	Height, overhead guard h ₅ (mm)	Weight ⁽³⁾ (kg)
2-Stage LFL					
1925	100	2572	3161	-	595
2125	100	2972	3561	2262	618
2325	100	3372	3961	2312	640
2475	100	3672	4261	2412	657
2675	100	4072	4661	2612	691
3-Stage FFL					
1875	1305	3876	4451	-	725
1975	1405	4176	4751	-	740
2125	1555	4626	5201	2312	765
2275	1705	5076	5651	2312	792

(1) With free lift of 100mm

(2) With load backrest for carriage h₄ + 461mm

(3) All weights are: mast structures (weldment, cylinders, chain, pulley) + oil.
EXCLUDED: forks, accessories

FEATURES LIST – MC SERIES

CONSTRUCTION	STD	OPT	LIGHTS & ALARMS	STD	OPT
Key Switch Start	●		Blue Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Trailing)		●
Keyless Start with Operator Password		●	TELEMETRY	STD	OPT
Standard Construction	●		Yale Vision Wireless Monitoring with Cellular connectivity		●
Cold Store Construction (-30 °C)		●	Yale Vision Wireless Access HID Prox Card Reader		●
BATTERY COMPARTMENT	STD	OPT	Yale Vision Wireless Access iClass MiFare Prox Card Reader		●
Battery Removal without Rollers - Lift Out	●		Yale Vision Wireless Access ISO Prox Card Reader		●
CARRIAGES & ATTACHMENTS	STD	OPT	Yale Vision Wireless Verification		●
Without Load Backrest	●		WARRANTY	STD	OPT
781mm High Load Backrest		●	Warranty: EUR 12 Months / 1,000 Hours Manufacturer's Warranty	●	
DRIVE WHEELS	STD	OPT	Warranty: EUR 36 Months / 3,000 Hours Extended Warranty		●
NDIltthane	●		All values are nominal values and they are subject to tolerances.		
Wet Grip		●			
NDIltthane Conductive		●			
OPERATOR COMPARTMENT	STD	OPT			
Clip Board		●			







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