MR14-25

Reach Truck | 1400 - 2500kg

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Yale®

People. Products. Productivity.™

About Yale®

The MR series is the next level in reach truck productivity, delivered through innovation, technology and ergonomic design.

As your customers demand more from you, you should be able to expect more from your reach trucks. With over 80 years in the material handling industry, the Yale MR series delivers on this promise and features even more benefits than before including:

- Innovative technology including laser positioning, dual CANbus technology, 'get home' function and touch screen display
- Flexibility with seven models in capacities from 1400kg to 2500kg and lift heights up to 12.65m
- Three chassis available to match your application
- Productivity with higher travel, lift and lower speeds
- Operator comfort with unique ergonomic controls and enhanced visibility
- Greater efficiency with easier serviceability and lower costs of ownership
- Aftermarket service and support

Support for the Yale MR series Reach Trucks can be found throughout the Asia-Pacific region – provided by a big regional footprint stretching from Australia and New Zealand, on through Singapore, Malaysia, Indonesia, Thailand, South Korea, Taiwan, Vietnam and the Philippines.

For more information please contact your local dealer.

MR14-25 Reach Truck Features

Laser Positioning*

The laser projects a red dot and line from the location on the fork carriage, enabling the operator to clearly see where the forks need to be positioned to lift the pallet securely. The laser is automatically switched on when the mast lifts beyond free lift (around 2m).

Ergonomic Controls*

The joystick matches the natural handgrip of the operator, providing easy access for all lift functions, forward/reverse, and the horn. The AccuTouch mini-lever module with built-in controls maximises operator familiarity, while additional function buttons are integrated into the adjustable armrest.

Premium Display*

Industry first premium touch screen display allows operators to be in full control of the truck at all times. The display provides PIN access, height preselect, fleet management information, weight indication, lift interrupt override and creep speed.

Advanced Diagnostics

A single plug-in service point connects your engineer's laptop to our advanced truck diagnostics, giving them instant access to essential service information. On-board, the unique dual integrated CANbus technology ensures fast identification of faults while the operator's display also provides critical status of components and error codes.

Cold Store Cabin*

A drop in temperatures doesn't mean a drop in performance. The fully insulated cabin is available in both standard and narrow chassis models. Heated windows and heaters built into the cabin doors maintain the optimum temperature for the operator.

Overhead Guard

Four different drive-in racking overhead guards are available to meet various application requirements.

More Fuel-Efficiency

The ECO-eLo energy efficiency mode can, depending on the application, reduce energy consumption by up to 20% without having a significant negative effect on overall productivity.

Quick-Change Battery*

The side extraction system enables rapid battery changeover to maximise uptime and make battery changeover as easy as possible.

Intelligent Technology

Integrated Dual CANbus technology ensures you will be able to identify an error or malfunction and fix it fast. Our unique innovative 'Get Home' function can even be activated after all functions come to rest, allowing the operator to drive the truck to an appropriate place of repair.

Easy Access Service Areas

Easy access to motors, hydraulics and other components including a single plug-in access point for diagnostics.

*Optional

Mechanical Specifications

				YALE	
Distinguishing Mark	1.1	MANUFACTURER			
	1.2	Manufacturer's type designation		MR14	MR16
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas		Electric (Battery)	Electric (Battery)
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker		Seated	Seated
Weights	1.5	Rated capacity/rated load	Q (kg)	1400	1600
	1.6	Load centre distance	c (mm)	600	600
	1.8	Load distance, centre of drive axle to fork	x (mm)	402	452
	1.9	Wheelbase	y (mm)	1400	1450
	2.1	Service weight	kg	3112	3162
	2.3	Axle loading, laden front/rear [5]	kg	1977/1135	2018/1144
	2.4	Axle loading, fork advanced, laden front/rear	kg	682/3830	601/4162
	2.5	Axle loading, fork retracted, unladen front/rear	kg	1778/2735	1853/2909
Tyre/Chassis	3.1	Tyres: polyurethane, topthane, vulkollan, front/rear		Vulkollan/Vulkollan	Vulkollan/Vulkollan
	3.2	Tyre size, front	ø mm x mm	343x140	343x140
	3.3	Tyre size, rear	ø mm x mm	285x100	285x100
	3.5	Wheels, number front/rear (x = driven wheels)		1x/2	1x/2
	3.7	Tread, rear	b_{11} (mm)	1155	1155
Dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/ß (°)	2/4	2/4
	4.2	Height of mast, lowered	h_1 (mm)	2195	2195
	4.3	Free lift	h_2 (mm)	1648	1648
	4.4	Lift	h_3 (mm)	5000	5000
	4.5	Height, mast extended [1]	h_4 (mm)	5563	5563
	4.7	Height of overhead guard (cabin) [2]	h_6 (mm)	2175	2175
	4.8	Seat height/stand height	h_7 (mm)	1082	1082
	4.10	Height of wheel arms	h_8 (mm)	308	308
	4.19	Overall length	l_1 (mm)	2379	2379
	4.20	Length to face of forks	l_2 (mm)	1229	1229
	4.21	Overall width [3]	b_1/b_2 (mm)	1265	1265
	4.22	Fork dimensions ISO2331	s/e/l (mm)	40/80/1150	40/120/1150
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A
	4.24	Fork carriage width	b_3 (mm)	700	700
	4.25	Distance between fork-arms, min./max. [8]	b_5 (mm)	220/640	260/680
	4.26	Distance between wheel arms/loading surfaces	b_4 (mm)	900	900
	4.28	Reach distance	l_4 (mm)	585	635
	4.31	Ground clearance, laden, below mast	m_1 (mm)	75	75
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	75	75
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2718	2731
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2764	2767
	4.35	Turning radius	Wa (mm)	1671	1718
	4.37	Length across load arms	l7 (mm)	1795	1845
	4.43	Step height	(mm)	371	371
Performance Data	5.1	Travel speed, laden/unladen [7]	km/h	11/11 (14/14)	11/11 (14/14)
	5.1.1	Travel speed, laden/unladen, backwards [7]	km/h	11/11 (14/14)	11/11 (14/14)
	5.2	Lift speed, laden/unladen	m/s	0.37/0.63 (0.47/0.73)	0.32/0.63 (0.42/0.73)
	5.3	Lowering speed, laden/unladen	m/s	0.55/0.55	0.55/0.55
	5.4	Reaching speed, laden/unladen	m/s	0.15/0.15	0.15/0.15
	5.7	Gradeability laden/unladen	%	12/15	11/15
	5.8	Max gradeability laden/unladen	%	12/15	12/15
	5.9	Acceleration time laden/unladen	s	On request	On request
	5.10	Service brake		Electric	Electric
Electric-engine	6.1	Drive motor rating S2 60 min	kW	6.4	6.4
	6.2	Lift motor rating at S3 15%	kW	14	14
	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C	C
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/420 [6]	48/420 [6]
	6.5	Battery weight [4]	kg	750	750
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycles	On request	On request
	8.1	Type of drive unit		AC	AC
Additional Data	10.1	Operating pressure for attachments	bar	180	180
	10.2	Oil volume for attachments	l/min	20	20
	10.7	Sound pressure level at the driver's seat	dB(A)	<69.7	<69.7

YALE				
MR16N	MR16HD	MR20	MR20HD	MR25
Electric (Battery)	Electric (Battery)	Electric (Battery)	Electric (Battery)	Electric (Battery)
Seated	Seated	Seated	Seated	Seated
1600	1600	2000	2000	2500
600	600	600	600	600
382	308	430	353	503
1450	1450	1500	1500	1650
3111	4038	3615	4425	4038
1922/1189	2417/1621	2261/1354	2567/1858	2520/1518
569/4142	883/4755	671/4943	891/5534	773/5765
1680/3032	2172/3466	2032/3583	2235/4189	2371/4167
Vulkollan/Vulkollan	Vulkollan/Vulkollan	Vulkollan/Vulkollan	Vulkollan/Vulkollan	Vulkollan/Vulkollan
343x140	343x140	343x140	343x140	343x140
285x100	285x100	285x100	285x140	285x140
1x/2	1x/2	1x/2	1x/2	1x/2
1025	1155	1155	1195	1195
2/4	2/4	2/4	2/4	2/4
2195	3227	2195	3227	2195
1648	2680	1582	2614	1582
5000	8050	4650	7900	4650
5563	8613	5263	8513	5263
2175	2175	2175	2175	2175
1082	1082	1082	1082	1082
308	308	308	308	308
2449	2523	2451	2528	2528
1299	1373	1301	1378	1378
1125	1265	1265	1345	1345
40/120/1150	40/120/1150	40/120/1150	45/120/1150	45/120/1150
2A	2A	2A	2A	2A
700	700	700	700	700
260/680	260/680	260/680	260/680	260/680
795	900	900	900	900
565	491	613	536	686
75	65	65	65	65
75	65	65	65	65
2762	2834	2795	2850	2890
2811	2896	2835	2904	2915
1700	1718	1767	1767	1911
1845	1845	1895	1895	2045
371	371	371	371	371
11/11 (14/14)	14/14	14/14	14/14	14/14
11/11 (14/14)	14/14	14/14	14/14	14/14
0.32/0.63 (0.42/0.73)	0.42/0.73	0.37/0.64	0.37/0.68	0.30/0.64
0.55/0.55	0.55/0.55	0.55/0.50	0.55/0.55	0.55/0.50
0.15/0.15	0.15/0.15	0.15/0.15	0.15/0.15	0.15/0.15
11/15	10/14	10/15	8/13	8/14
12/15	12/15	12/15	12/15	12/15
On request	On request	On request	On request	On request
Electric	Electric	Electric	Electric	Electric
6.4	6.4	6.4	6.4	6.4
14	14	14	14	14
C	C	C	C	C
48 /420 [6]	48/ 700 [6]	48/560 [6]	48/700 [6]	48/700 [6]
750	939	939	1119	1119
On request	On request	On request	On request	On request
AC	AC	AC	AC	AC
180	180	180	180	180
20	20	20	20	20
<69.7	<69.7	<69.7	<69.7	<69.7

[1] With load backrest h4 + 508mm MR14-MR16-MR16N-MR16HD, + 443mm MR20-MR25-MR20HD.

[2] With beacon h6 + 120mm. ; With OHG Grid Protector h6 + 20mm ; With OHG Screen Protector h6 + 30mm.

[3] With load wheels lateral covers: 1289mm MR14-MR16-MR20-MR16HD, 1153mm (MR16N), 1373mm (MR25-MR20HD).

[4] These values may vary of +/- 5%.

[5] Forks retracted.

[6] See Truck dimensions for batteries tables.

[7] Values in brackets are Optional.

[8] Sideshift distance on either side is + / -75mm on all trucks. Reduction of + / - 25mm on MR16N.

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer. Yale products might be subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

Standard Features & Options

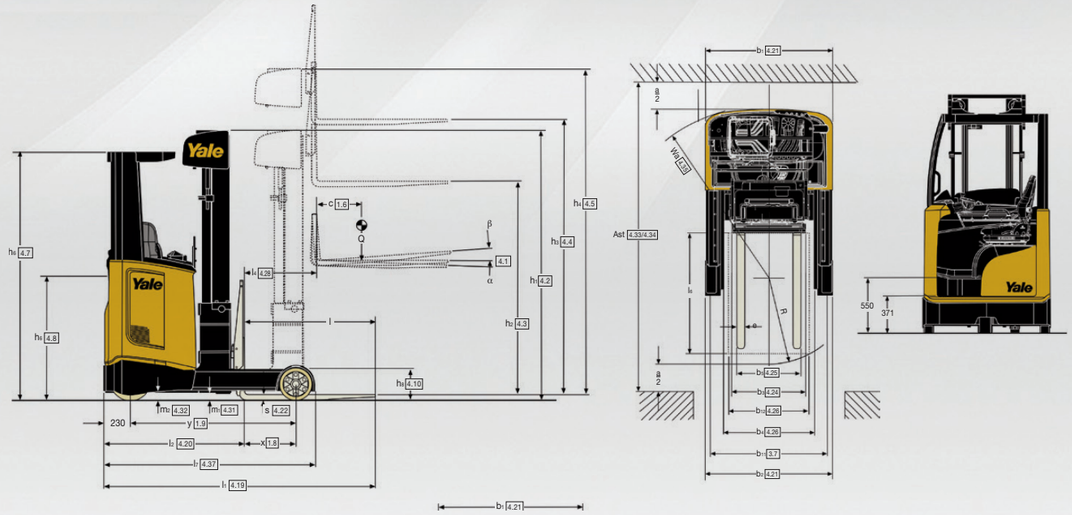
	Feature	MR14/16	MR16N	MR20/25	MR16HD	MR20HD
Operator Compartment	Intermediate step	■	■	■	■	■
	Grab handle on overhead guard post	■	■	■	■	■
	Grab handle under armrest	■	■	■	■	■
	AccuTouch mini-levers mounted on adjustable length armrest	■	■	■	■	■
	Joystick mounted on adjustable length armrest	❍	❍	❍	❍	❍
	Full suspension seat - 60mm suspension travel cloth upholstery	■	■	■	■	■
	Full suspension seat - 80mm suspension travel cloth upholstery	❍	❍	❍	❍	❍
	Headrest (cloth version only)	❍	❍	❍	❍	❍
	Synchronised seat cushion and backrest movement (cloth version only)	❍	❍	❍	❍	❍
	Seat belt	❍	❍	❍	❍	❍
	Heated seat	❍	❍	❍	❍	❍
	Antistatic seat (cloth version only)	❍	❍	❍	❍	❍
	Vinyl seat upholstery	❍	❍	❍	❍	❍
	Standard display	■	■	■	■	■
	Premium display with touch screen	❍	❍	❍	❍	❍
	Keyless access	❍	❍	❍	❍	❍
	Adjustable steering column	■	■	■	■	■
	Automatic park brake Yalestop	■	■	■	■	■
	180° steering	■	■	■	■	■
	360° steering	❍	❍	❍	❍	❍
	Driver select steering mode 180/360° (push button)	❍	❍	❍	❍	❍
Travel Performance	Travel speed 11km/h	■	■	✢	✢	✢
	Travel speed 14km/h with electric load wheel braking	❍	❍	■	■	■
	Speed slow down mast reached forward	■	■	■	■	■
	Speed slow down on cornering	■	■	■	■	■
	Speed slow down over free lift	■	■	■	■	■
Lift Performance / Driver Assist	3 stage mast / tilting carriage	■	■	■	■	■
	Simultaneous lift / reach functionality	■	■	■	■	■
	Simultaneous hydraulic functionality - 3 functions	❍	❍	❍	❍	❍
	Mast cushioning over free lift/main lift sections - fixed sensor mounting	■	■	■	■	✢
	Lift Comfort package [1]	❍	❍	❍	■	■
	Lift Performance package	❍	❍	✢	■	■
	Laser line fork positioning aid (above free lift)	❍	❍	❍	❍	❍
	Auto side shift centring	❍	❍	❍	❍	❍
	Auto fork levelling in the horizontal position	❍	❍	❍	❍	❍
	Height preselector (with/without pallet detection device)	❍	❍	❍	❍	❍
	Fork mounted camera/monitor	❍	❍	❍	❍	❍
	Weight indicator	❍	❍	❍	❍	❍
Application Environment	5th hydraulic function	❍	❍	❍	❍	❍
	Universal support bracket	❍	❍	❍	❍	❍
	Beverage holder and document tray	❍	❍	❍	❍	❍
	A4 clipboard	❍	❍	❍	❍	❍
	Stretch film roll holder	❍	❍	❍	❍	❍
	Lift limit with override (1 x height setting)	❍	❍	❍	❍	❍
	Lift limit with override (2 x height settings)	❍	❍	❍	❍	❍
	Lower limit (with override option)	❍	❍	❍	❍	❍
	Flashing beacon	❍	❍	❍	❍	❍
	Work lights x 2 (mast side)	❍	❍	❍	❍	❍
	Work lights x 1 (drive side)	❍	❍	❍	❍	❍
	Polycarbonate (lexan) protection on overhead guard	❍	❍	❍	❍	❍
	Metal grid protection on overhead guard	❍	❍	❍	❍	❍
	Top/front load wheel protection	■	■	■	■	■
	Side load wheel protection	❍	❍	❍	❍	❍
	High temperature environment	❍	❍	❍	❍	❍
	Side battery change - rollers	❍	❍	❍	❍	❍
	Side battery change - tray	❍	❍	❍	❍	❍
	Extension cable	❍	❍	❍	❍	❍
	Drive-in overhead guard (w 930 x h 1400 / w 930 x h 1700mm)	❍	❍	❍	❍	❍
	Antistatic drive and load wheels	❍	❍	❍	❍	❍
	Wet surface drive and load wheels	❍	❍	❍	❍	❍
	Side guidance rollers	❍	❍	❍ / ★	❍	★
	DC/DC converter (choice of 12V/48V, 24V/48V, 12-24V/48V options)	❍	❍	❍	❍	❍
	Audible alarm (choice of forks leading, forks trailing, both travel directions)	❍	❍	❍	❍	❍
	Load backrest (choice of heights 1000/1500mm)	❍	❍	❍	❍	❍

[1] Includes; End of stroke slow down on lift. Soft stop on lowering. Height controlled mast cushioning over Free Lift/Main lift mast section. Height indicator.

■ Standard ❍ Optional ✢ Not available ★ SPED

Specifications

Dimension Chart



$$Ast = Wa + R + a = Wa + ((\sqrt{l_6} + x)^2 + (b_{12}/2 - b_{13})^2 + a$$

Features

1 Touch screen technology
An industry first including PIN access, height pre-select, fleet management information, weight indication, lift interrupt override and creep speed selection.

2 New joystick
The joystick matches the natural handgrip of the operator.

3 Contoured arm rest
Provides support for the right arm and integrated raised palm rest.

4 Wider spaced floor pedals
Provide increased leg room.

5 Extensive floor space and pedal clearances
For easier on and off access.

6 New full suspension adjustable seat
With integral lumbar support reduces whole body vibration.

7 New steering column
Mounted directly on to the chassis with sturdy slider mechanism.

8 New steering wheel design
With soft touch and comfort grip knob. Provides a comfortable driving posture to alleviate build up of stress on the operators wrist, elbow and arm.

Specifications

Battery

MR14 battery dimensions

		Battery type		C “Super”	C	C “Super”	C	C “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR14				
	1.8	Load distance, centre of drive axle to fork	x (mm)	402	330	330	258	258
	1.9	Wheelbase	y (mm)	1400	1400	1400	1400	1400
Weights	2.1	Service weight	kg	3112	3309	3320	3495	3541
	2.3	Axle loading, unladen front/rear [5]	kg	1977/1135	2025/1285	2032/1289	2055/1440	2084/1457
	2.4	Axle loading fork advanced, laden front/rear	kg	682/3830	792/3917	800/3921	885/4010	914/4027
	2.5	Axle loading fork retracted, laden front/rear	kg	1778/2735	1753/2956	1760/2960	1711/3184	1741/3201
Dimensions	4.19	Overall length	l_1 (mm)	2379	2451	2451	2523	2523
	4.20	Length to face of forks	l_2 (mm)	1229	1301	1301	1373	1373
	4.28	Reach distance	l_4 (mm)	585	513	513	441	441
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2718	2771	2771	2825	2826
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2764	2829	2829	2895	2895
	4.35	Turning radius	Wa (mm)	1671	1671	1671	1671	1671
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C “Super”	C	C “Super”	C	C “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/465	48/560	48/620	48/700	48/775
	6.5	Battery weight [4]	kg	750	939	950	1119	1165

MR16 battery dimensions

		Battery type		C “Super”	C	C “Super”	C	C “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR16				
	1.8	Load distance, centre of drive axle to fork	x (mm)	452	380	380	308	308
	1.9	Wheelbase	y (mm)	1450	1450	1450	1450	1450
Weights	2.1	Service weight	kg	3162	3360	3371	3546	3592
	2.3	Axle loading, unladen front/rear [5]	kg	2018/1144	2069/1291	2077/1294	2103/1443	2133/1459
	2.4	Axle loading fork advanced, laden front/rear	kg	601/4162	714/4246	721/4250	810/4336	839/4352
	2.5	Axle loading fork retracted, laden front/rear	kg	1853/2909	1825/3135	1832/3139	1779/3367	1809/3383
Dimensions	4.19	Overall length	l_1 (mm)	2379	2451	2451	2523	2523
	4.20	Length to face of forks	l_2 (mm)	1229	1301	1301	1373	1373
	4.28	Reach distance	l_4 (mm)	635	563	563	491	491
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2731	2781	2781	2834	2834
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2767	2830	2830	2896	2896
	4.35	Turning radius	Wa (mm)	1718	1718	1718	1718	1718
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C “Super”	C	C “Super”	C	C “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/465	48/560	48/620	48/700	48/775
	6.5	Battery weight [4]	kg	750	939	950	1119	1165

MR16N battery dimensions

		Battery type		B “Super”	B	B “Super”	B	B “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR16N				
	1.8	Load distance, centre of drive axle to fork	x (mm)	382	292	292	202	202
	1.9	Wheelbase	y (mm)	1450	1450	1450	1450	1450
Weights	2.1	Service weight	kg	3115	3309	3317	3498	3514
	2.3	Axle loading, unladen front/rear [5]	kg	1924/1191	1947/1362	1952/1365	1955/1543	1965/1549
	2.4	Axle loading fork advanced, laden front/rear	kg	572/4143	672/4237	677/4240	757/4341	766/4347
	2.5	Axle loading fork retracted, laden front/rear	kg	1682/3033	1606/3303	1611/3306	1514/3584	1524/3590
Dimensions	4.19	Overall length	l_1 (mm)	2449	2539	2539	2629	2629
	4.20	Length to face of forks	l_2 (mm)	1299	1389	1389	1479	1479
	4.28	Reach distance	l_4 (mm)	565	475	475	385	385
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2762	2828	2828	2898	2899
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2811	2893	2893	2976	2976
	4.35	Turning radius	Wa (mm)	1700	1700	1700	1700	1700
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		B “Super”	B	B “Super”	B	B “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/465	48/560	48/620	48/700	48/775
	6.5	Battery weight [4]	kg	750	937	945	1119	1135

Specifications

Battery

MR20 battery dimensions

		Battery type		C “Super”	C	C “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR20		
	1.8	Load distance, centre of drive axle to fork	x (mm)	430	358	358
	1.9	Wheelbase	y (mm)	1500	1500	1500
Weights	2.1	Service weight	kg	3626	3801	3847
	2.3	Axle loading, unladen front/rear [5]	kg	2268/1358	2296/1504	2326/1520
	2.4	Axle loading fork advanced, laden front/rear	kg	679/4947	770/5030	801/5046
	2.5	Axle loading fork retracted, laden front/rear	kg	2039/3586	1971/3829	2002/3845
Dimensions	4.19	Overall length	l_1 (mm)	2451	2523	2523
	4.20	Length to face of forks	l_2 (mm)	1301	1373	1373
	4.28	Reach distance	l_4 (mm)	613	541	541
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2795	2846	2846
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2835	2900	2900
	4.35	Turning radius	Wa (mm)	1767	1767	1767
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C “Super”	C	C “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/620	48/700	48/775
	6.5	Battery weight [4]	kg	950	1119	1165

MR25 battery dimensions

		Battery type		C “Super”	C	C “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR25		
	1.8	Load distance, centre of drive axle to fork	x (mm)	503	431	431
	1.9	Wheelbase	y (mm)	1650	1650	1650
Weights	2.1	Service weight	kg	4084	4230	4292
	2.3	Axle loading, unladen front/rear [5]	kg	2552/1532	2565/1665	2606/1686
	2.4	Axle loading fork advanced, laden front/rear	kg	804/5780	876/5855	917/5875
	2.5	Axle loading fork retracted, laden front/rear	kg	2402/4182	2306/4424	2348/4444
Dimensions	4.19	Overall length	l_1 (mm)	2528	2600	2600
	4.20	Length to face of forks	l_2 (mm)	1378	1450	1450
	4.28	Reach distance	l_4 (mm)	686	614	614
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2890	2938	2938
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2915	2978	2978
	4.35	Turning radius	Wa (mm)	1911	1911	1911
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C “Super”	C	C “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/775	48/840	48/930
	6.5	Battery weight [4]	kg	1165	1306	1368

MR16HD and MR20HD battery dimensions

		Battery type		C “Super”	C	C “Super”	C “Super”	C	C “Super”
Distinguishing Mark	1.2	Manufacturer’s type designation		MR16HD			MR20HD		
	1.8	Load distance, centre of drive axle to fork	x (mm)	308	308	308	353	281	281
	1.9	Wheelbase	y (mm)	1450	1450	1450	1500	1500	1500
Weights	2.1	Service weight	kg	4049	4224	4270	4471	4617	4679
	2.3	Axle loading, unladen front/rear [5]	kg	2424/1625	2428/1796	2457/1813	2597/1874	2577/2040	2616/2063
	2.4	Axle loading fork advanced, laden front/rear	kg	891/4758	979/4845	1009/4861	921/5550	985/5632	1024/5655
	2.5	Axle loading fork retracted, laden front/rear	kg	2180/3469	2104/3720	2134/3736	2266/4205	2149/4468	2189/4490
Dimensions	4.19	Overall length	l_1 (mm)	2523	2523	2523	2528	2600	2600
	4.20	Length to face of forks	l_2 (mm)	1373	1373	1373	1378	1450	1450
	4.28	Reach distance	l_4 (mm)	491	491	491	536	464	464
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2834	2834	2834	2850	2903	2903
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2896	2896	2896	2904	2970	2970
	4.35	Turning radius	Wa (mm)	1718	1718	1718	1767	1767	1767
Electric Engine	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C “Super”	C	C “Super”	C “Super”	C	C “Super”
	6.4	Battery voltage/nominal capacity K_5	(V)/(Ah)	48/620	48/700	48/775	48/775	48/840	48/930
	6.5	Battery weight [4]	kg	950	1119	1165	1165	1306	1368

Notes - relates to all battery dimensions tables. [4] These values may vary of +/- 5%. [5] Forks retracted. All weights (2.1 to 2.5) are with lowest mast and standard forks.

Specifications

Mast

	1400/1600kg				
Model	**MR14, MR16**				
Mast Type	**3 Stage Full-free Lift**				
Manufacturer's type designation	**Lift (h_3) mm**	**Free Lift (h_2) mm**	**Height of Mast Lowered (h_1) mm**	**Height of Mast Extended (h_4) mm [1]**	**Weight kg [2]**
MR16N	5000	1648	2195	5563	911
	5250	1734	2281	5813	936
	5500	1820	2367	6063	961
	5750	1906	2453	6313	986
	6000	1992	2539	6563	1010
	6250	2078	2625	6813	1035
	6500	2164	2711	7063	1060
	6750	2250	2797	7313	1090
	7000	2336	2883	7563	1115
	7250	2422	2969	7813	1140
	7500	2508	3055	8063	1164
	7750	2594	3141	8313	1220
	8000	2680	3227	8563	1244
	8250	2766	3313	8813	1269
	8500	2852	3399	9063	1299
	8750	2938	3485	9313	1324
	9000	3024	3571	9563	1349
	9250	3110	3657	9813	1376
	9500	3196	3743	10063	1400
	9750	3282	3829	10313	1425
	10000	3368	3915	10563	1454
	10250	3454	4001	10813	1478
	10500	3540	4087	11063	1503

[1] With load backrest h4 + 508mm.

[2] All weights are: mast structures (weldment, cylinders, chain, pulley) + carriage + load backrest + oil. Excluded: forks, accessories.

	2000/2500kg				
Model	**MR20, MR25**				
Mast Type	**3 Stage Full-free Lift**				
Manufacturer's type designation	**Lift (h_3) mm**	**Free Lift (h_2) mm**	**Height of Mast Lowered (h_1) mm**	**Height of Mast Extended (h_4) mm [1]**	**Weight kg [2]**
	4650	1582	2195	5263	958
	4900	1668	2281	5513	985
	5150	1754	2367	5763	1012
	5400	1840	2453	6013	1038
	5650	1926	2539	6263	1065
	5900	2012	2625	6513	1092
	6150	2098	2711	6763	1118
	6400	2184	2797	7013	1150
	6650	2270	2883	7263	1177
	6900	2356	2969	7513	1204
	7150	2442	3055	7763	1230
	7400	2528	3141	8013	1288
	7650	2614	3227	8263	1314
	7900	2700	3313	8513	1341
	8150	2786	3399	8763	1373

[1] With load backrest h4 + 443mm.

[2] All weights are: mast structures (weldment, cylinders, chain, pulley) + carriage + load backrest + oil. Excluded: forks, accessories.

	1600kg				
Model	**MR16HD**				
Mast Type	**Heavy Duty 3 Stage Full-free Lift**				
Manufacturer's type designation	**Lift (h_3) mm**	**Free Lift (h_2) mm**	**Height of Mast Lowered (h_1) mm**	**Height of Mast Extended (h_4) mm [1]**	**Weight kg [2]**
	7900	2680	3227	8463	1376
	8150	2766	3313	8713	1404
	8400	2852	3399	8963	1438
	8650	2938	3485	9213	1466
	8900	3024	3571	9463	1495
	9150	3110	3657	9713	1524
	9400	3196	3743	9963	1552
	9650	3282	3839	10213	1580
	9900	3368	3925	10463	1612
	10150	3454	4011	10713	1641
	10400	3540	4097	10963	1699
	10650	3626	4183	11213	1728
	10900	3712	4269	11463	1756
	11150	3798	4355	11713	1785
	11400	3884	4441	11963	1813

[1] With load backrest h4 + 508mm.

[2] All weights are: mast structures (weldment, cylinders, chain, pulley) + carriage + load backrest + oil. Excluded: forks, accessories.

	2000kg				
Model	**MR20HD**				
Mast Type	**Heavy Duty 3 Stage Full-free Lift**				
Manufacturer's type designation	**Lift (h_3) mm**	**Free Lift (h_2) mm**	**Height of Mast Lowered (h_1) mm**	**Height of Mast Extended (h_4) mm [1]**	**Weight kg [2]**
	7750	2614	3227	8363	1402
	8000	2700	3313	8613	1431
	8250	2786	3399	8863	1465
	8500	2872	3485	9113	1494
	8750	2958	3571	9363	1523
	9000	3044	3657	9613	1552
	9250	3130	3743	9863	1581
	9500	3216	3839	10113	1609
	9750	3302	3925	10363	1638
	10000	3388	4011	10613	1671
	10250	3474	4097	10863	1729
	10500	3560	4183	11113	1758
	10750	3646	4269	11363	1787
	11000	3732	4355	11613	1816
	11250	3818	4441	11863	1844
	11500	3904	4527	12113	1873
	11750	3990	4613	12363	1902
	12000	4076	4699	12613	1931
	12250	4162	4785	12863	1959
	12500	4248	4871	13113	1988

[1] With load backrest h4 + 443mm.

[2] All weights are: mast structures (weldment, cylinders, chain, pulley) + carriage + load backrest + oil. Excluded: forks, accessories.

Standard Features & Options

Standard

Operator Compartment
- Intermediate step
- Grab handle on overhead guard post
- Grab handle under armrest
- AccuTouch mini-levers mounted on adjustable length armrest
- Full suspension seat – 60mm suspension travel – cloth upholstery
- Standard display
- Adjustable steering column
- Automatic park brake Yalestop
- 180° steering

Travel Performance
- Travel speed 11km/h (MR14/15 only)
- Travel speed 14km/h with electric load wheel braking (MR20/25, MR16HD, MR20HD only)
- Speed slow down mast reached forward
- Speed slow down on cornering
- Speed slow down over free list

Lift performance/driver assist
- 3 stage mast/tilting carriage
- Simultaneous lift/reach functionality
- Mast positioning over free lift/main lift sections – fixed sensor mounting*
- Lift Comfort Package (MR16HD, MR20HD only)
- Lift Performance Package (MR16HD, MR20HD only)

Application Environment
- Top/front load wheel protection

Chassis
- Chassis width (max)
  - 1265mm (MR14, MR16, MR16HD, MR20 only)
  Not available on MR16, MR25, MR20HD
  - 1125mm (MR16N only)
  Not available on MR14, MR16, MR20, MR25, MR16HD, MR20HD
  - 1345mm (MR25 only)
  Not available on MR14, MR16, MR16N, MR20, MR16HD

Standard Warranty
- Truck 12 months (2000 hours)
- Powertrain 24 months (4000 hours)

Options

Operator Compartment
- Joystick mounted on adjustable length armrest
- Full suspension seat – 80mm suspension travel – cloth upholstery
- Head rest (cloth version only)
- Synchronised seat cushion and back rest movement (cloth version only)
- Heated seat
- Antistatic seat (cloth version only)
- Vinyl seat upholstery
- Premium display with touch screen
- Keyless access
- 360° steering
- Driver select steering mode 180/360° (push button)

Lift performance/driver assist
- Simultaneous hydraulic functionality – 3 functions
- Lift Comfort Package[1]
- Lift Performance Package
- Laser line fork positioning aid (above free lift)
- Auto side shift centering
- Auto fork levelling in the horizontal position
- Height preselector (with/without pallet detection device)
- Fork mounted camera/monitor
- Load weight indicator

Application Environment
- 5th hydraulic function
- Universal support bracket
- Beverage holder and document tray
- A4 clipboard
- Stretch film roll holder
- Lift limit with override (1 x height setting)
- Lift limit with override (2 x height setting)
- Lower limit (with override option)
- Flashing beacon
- Work lights x 2 (mast side) x 1 (drive side)
- Polycarbonate (lexan) protection on overhead guard
- Metal grid protection on overhead guard
- Side load wheel protection
- High temperature environment
- Side battery change – rollers
- Side battery change – tray
- Extension cable
- Drive-in overhead guard (w 930 x h 1400 / w 930 x h 1700mm)
- Anti-static drive and load wheels
- Wet surface drive and load wheels
- Side guidance rollers
- DC/DC converter (choice of 12V/48V, 24V/48V, 12-24V/48V options)
- Audible alarm (choice of fork leading, forks trailing, both travel directions)
- Load backrest (choice of heights 1000/1500mm)
- Extendable forks - double deep option
- Speed reduction to 3km/h with forks raised
- Cold store cabin

Chassis/Battery Sizes
- Chassis width (max)
  - 1345mm (MR20HD only)
- Battery sizes[2]
  - 420-465Ah (MR14, MR16, MR16N only)
  Not available on MR20, MR25, MR16HD, MR20HD
  - 560-620Ah (MR14, MR16, MR16N, MR20, MR16HD only)
  Not available on MR25, MR20HD
  - 700-775Ah (MR14, MR16, MR16N, MR20, MR25, MR16HD, MR20HD only)
  - 840-930Ah (MR25, MR20HD only)
  Not available on MR14, MR16, MR16N, MR20, MR16HD

*Not available on MR20HD

[1] Includes: End of stroke slow down on lift, Soft stop on lowering, Height controlled mast cushioning over Free Lift/Main Lift mast section, Height indicator

[2] DIN C Battery on MR14/MR16/MR20/MR25/MR16HD/MR20HD, DIN B Battery on MR16N

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