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Reach Higher

As your customers demand more from you, you should be able to expect more from your reach trucks. The Yale® MR series delivers more.

More flexibility with seven models in capacities from 1,400kg to 2,500kg and lift heights up to 12.75m.

More choice with three chassis available to match your application.

More productivity with higher travel, lift and lower speeds.

More comfort with unique ergonomic controls and enhanced visibility.

And greater efficiency with easier serviceability and lower costs of ownership.

All of which combine to deliver a reach truck that is **more** than simply fit for use - it's fit precisely for your business.

Industry 1st

- Touch screen technology
- Dual CANbus technology
- 'Get Home' function
- Laser positioning

Right: MR 16 1,6000kg standard chassis reach truck



ale MR14-25 series

Driving Productivity

To increase the productivity of your business, speed and control is of the essence. Higher travel speeds for long travel distances throughout your warehouse and lower speeds for precise load handling. The MR series gives you both.

Responsive Performance

To move more loads per hour, fast cycle times are essential. That's why we've increased the MR's travel speed to 14 km/h and the mast speed to 0.8 metres per second with masts lifting up to 12.75m.

Precise Performance

But, power without control is not efficient. From adjustable speed reduction on cornering, auto regenerative braking and creep speed select to the optional auto fork levelling and laser load positioning systems, the MR series puts your operator in total control.

Move More.

The robust heavy-duty mast design provides high residual capacities and stable load handling enabling faster put away and retrieval times. The 2,000kg heavy duty model can lift a full capacity load to 7.5m and 800kg to 12.75m.

Total Maneuverability

Your operator can choose between 180° and 360° steering at the touch of a button.

Increased Uptime

A larger battery capacity and simpler battery change solutions keep your MR truck working harder for longer.

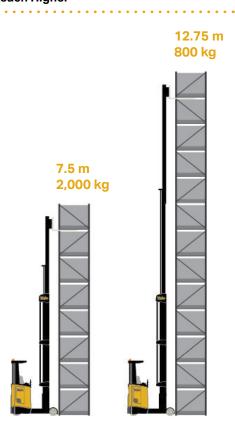
More Energy Efficiency

The ECO-eLo energy efficiency mode reduces the maximum engine speed and optimises fuel efficiency and can, dependent on the application reduce energy consumption by up to 20% without having a significant negative effect on overall productivity.

Think Productivity

- Fast travel and mast speed
- Enhanced controllability
- High residual capacities
- Optional 360° steering
- Longer uptime

Reach Higher

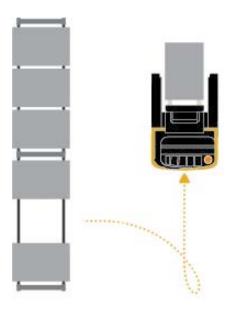




Select 360°

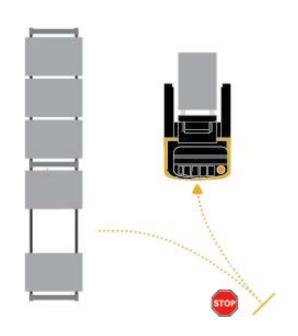
Your operator can choose between 180° and 360° steering at the touch of a button.

$360^{\circ}\,\text{Steering}.$



180° Steering.

Truck has to come to a stop and direction of travel selected manually by operator.



fale MR14-25 series

Take Control

The more time your operator spends in the operator compartment, the more productive they will be, which is why we have designed the operator compartment around their needs. We have achieved this by determining their biggest challenges through extensive operator testing and developing big improvements in their comfort productivity.

Think Ergonomics

- Designed for the operator
- High visibility
- Easy access
- Spacious cabin
- Adjustable full suspension seat
- Touch screen technology

Focused Thinking

For operators, constantly having to adjust their line of sight is time-consuming. Which is why the new MR series models feature high visibility masts. The overhead guard has been completely redesigned, without any compromise to its strength or security, maintaining operator protection whilst offering excellent upward and all round visibility.

Comfortably Better

Getting into the operator compartment and retaining comfortable throughout the shift is a Yale® prerequisite. The lowest and widest step in the industry, integrated grab handles and an adjustable steering column support easy access. A new full suspension adjustable reduces whole body vibration; while wider spaced floor pedals provide increased leg room and a more comfortable operating position.

High visibility mast saves operators from constantly having to adjust their line of sight.







indication, lift interrupt override and creep speed

selection.

New Joystick
With integrated controls mimics the natural shape

3 Contoured Arm Rest

of the hand.

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.

New Full Suspension Adjustable Seat
 With integral lumbar support reduces whole body

7 New Steering Column

vibration.

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 wist, elbow and arm rest.

9 High Visibility Mast

Saves operators form constantly having to adjust their line of sight.

10 Integrated Grab Handle

On the left hand on the overhead guard post and for the right hand underneath the arm rest.

11 The Lowest and Widest Step

in the industry for easy access.



A Touch of Inspiration

The latest productivity-enhancing technology is now at your operators' fingertips.

Premium Display

An 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, creep speed selection all at the touch of the screen. The screen opens up the possibility of regular updates to ensure that your truck will continue to benefit from the latest software versions and high levels of information.

Ergonomic Controls

Push button 360° steering offers greater driving control and more accurate positioning at the rack face. The new joystick with integrated controls mimics the natural shape of the hand, providing easy access for all lift functions, forward/reverse, and the horn. The AccuTouch™ minilever module with built-in controls maximizes operator familiarity, while additional function buttons are integrated into the adjustable armrest.

Industry 1 st

Premium touch screen display allows operators to be in full control of the truck at all times



New joystick with integrated controls.

Made to Perform. **Built to Last.**

Reliability is built into every Yale® materials handling product through the use of quality industrial standard components. The latest generation AC motors, Vehicle Control Manager and state of the art controls contribute to increased levels of productivity and uptime.

99% New. 100% Proven.

An astonishing 99% of the components in the MR series are new and improved, from the latest generation motors to increase uptime to state-of-the-art controls to raise productivity.

Fit for Purpose.

We have invested 55,000 man-hours in product development and testing to ensure your MR reach truck is fit for purpose.

No Job Too Tough.

High capacity masts and reinforced load arms give you the confidence to tackle any application - large or small.

Intelligent Technology.

Should a problem ever occur, our integrated Dual **CANbus** technology ensures you will be able to identify an operator 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 to the truck to an appropriate place of repair.

Think Reliability

- **Built in Europe**
- New proven components
- Extensive development and testing
- Leading fault identification technology
- Dependable and reliable



Add More.

You can choose from a range of options to tailor your MR reach truck to your exact application needs.

Think Versatility

- Trucks tailored specifically to your business needs
- A range of options matched to your application
- Increased efficiency and productivity

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.

Combined with a sophisticated air circulation system your operators can work longer more comfortably.



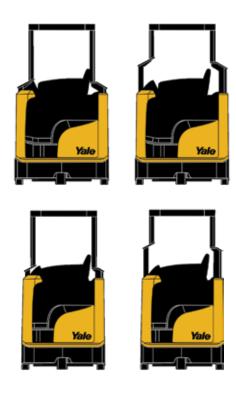


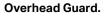
Visibility isn't compromised either, operators have a clear all round view with venting and wipers keeping the front of the cabin clear from mist.

The truck is available with glass or polycarbonate, heated or unheated windows.

In freezing temperatures moving parts can adversely affect reliability that's why we've perfected hydraulic lubrication to withstand the effects of temperatures down to -30°C without compromising on truck performance.







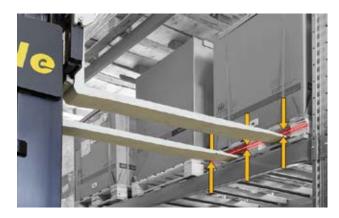
Four different drive-in racking overhead guards are available to meet various application requirements.

Laser Positioning.

Another industry first for Yale® – laser positioning allows the operator to work faster, safer and reduce damage to products and racking.

The laser projects a red dot and line from the location on the fork carriage, this enables the operator to clearly see where the forks need to be positioned in to lift the pallet safely. This helps reduce human error, particularly where operators have to position or pick loads high in the racking.

The laser is automatically switched on when the mast lifts beyond free lift (around 2m).





Quick-Change Battery.

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



Extendable Forks.

Hydraulically operated, the extendable fork attachment provides up to 30% more storage capacity while maintaining operational flexibility when operating in other areas of the warehouse.

Weight Indicator.

At the touch of a button, your operator can quickly check the load weight on the forks to an accuracy or +/- 10kg to ensure the truck can only be operated when it is within the limits specified and not overloaded.

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Full Serviceability.

Increased productivity through lower maintenance. The MR series is designed for fast, simple servicing, reducing downtime and keeping your truck operational.

Simple Servicing.

Everything about the MR series is designed to make servicing simple. From the 3-piece build that reduces replacement parts to the swing-open door and fast-release floor plate which provide easy access to the motors, hydraulics and foot-well components. Maintenance – free – greased for 'life' mast rollers, 100% leak free disconnect hydraulic fittings and side access to load wheels all contribute to making regular maintenance easy, reducing service time.

Longer Service Intervals.

Our trucks work harder for longer with recommended 3,000 hour hydraulic oil and filter service intervals and 1,000 hour transmission oil changes.

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.

Reliable Parts Availability.

Wherever you are in the world, we can deliver genuine Yale® replacement parts to you – fast. Our parts warehouse stocks 2.5 million parts, all available for immediate despatch.

Over **2.5 Million Parts**

immediately available.



Lowering the Cost.

By designing and building reliability and dependability into every Yale® MR series model, and then working ceaselessly in your business you will benefit from increased productivity and a greater return on your materials handling fleet investment.



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.

Harder Working.

Yale® builds reliability and dependability into every Yale® MR series model, this can provide your business with the opportunity to increase productivity and realise a greater return on your materials handling fleet investment.

Higher Residual Values.

And should you ever decide to change your Yale® MR series reach truck in the future, you can be sure that the residual value will be amongst the best in the industry.

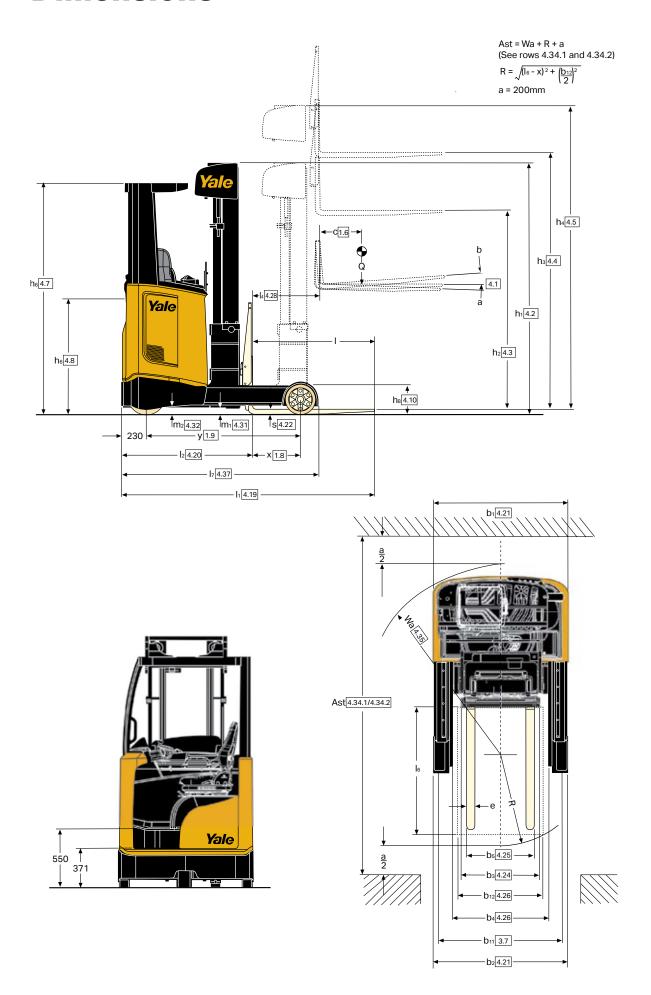


Think Lower Cost of Ownership

- Lower energy consumption and costs
- Higher residual values
- Increased uptime
- Higher return on investment



Dimensions



		Lift (h₃) mm	Free lift (h ₂) mm	Height of mast lowered (h ₁) mm	Height of mast extended (h4)	Weight kg (2)
		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
	z	6750	2250	2797	7313	1090
	MR16N	7000	2336	2883	7563	1115
9	Σ	7250	2422	2969	7813	1140
ਔ		7500	2508	3055	8063	1164
≥		7750	2594	3141	8313	1220
MR14, MR16		8000	2680	3227	8563	1244
Σ		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

Lift (h ₃) mm	Free lift (h ₂) mm	Height of mast lowered (h ₁) mm	Height of mast extended (h4) 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

Lift (h₃) 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

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

Lift (h ₃) mm	Free lift (h₂) 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

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

M	R14	truck dimensions for batteries						
ing		Battery type		C "Super"	С	C "Super"	С	C "Super"
Distinguishing mark	1.2	Manufacturer's type designation		MR14	MR14	MR14	MR14	MR14
agi agi	1.8	Load distance, centre of drive axle to fork	x (mm)	452	380	380	308	308
Dis	1.9	Wheelbase	y (mm)	1450	1450	1450	1450	1450
"0	2.1	Service weight	kg	3162	3360	3371	3546	3592
Weights	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2018 / 1144	2069 / 1291	2077 / 1294	2103 / 1443	2133 / 1459
Vei.	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
	4.19	Overall length	I1 (mm)	2379	2451	2451	2523	2523
Su.	4.20	Length to face of forks	I2 (mm)	1229	1301	1301	1373	1373
sio	4.28	Reach distance	14 (mm)	635	563	563	491	491
Dimensions	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2731	2781	2781	2834	2834
亩	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
ე ნ	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"	С	C "Super"
Eletric- engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 465	48 / 560	48 / 620	48 / 700	48 / 775
田卓	6.5	Battery weight (4)	kg	750	939	950	1119	1165

MI	R16	truck dimensions for batteries						
ing		Battery type		C "Super"	С	C "Super"	С	C "Super"
Distinguishing mark	1.2	Manufacturer's type designation		MR16	MR16	MR16	MR16	MR16
ting	1.8	Load distance, centre of drive axle to fork	x (mm)	452	380	380	308	308
Dis	1.9	Wheelbase	y (mm)	1450	1450	1450	1450	1450
"	2.1	Service weight	kg	3162	3360	3371	3546	3592
Weights	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2018 / 1144	2069 / 1291	2077 / 1294	2103 / 1443	2133 / 1459
Nei.	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
	4.19	Overall length	I1 (mm)	2379	2451	2451	2523	2523
S	4.20	Length to face of forks	I2 (mm)	1229	1301	1301	1373	1373
oisi	4.28	Reach distance	14 (mm)	635	563	563	491	491
Dimensions	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2731	2781	2781	2834	2834
۵	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
ç ā	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"	С	C "Super"
Eletric- engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 465	48 / 560	48 / 620	48 / 700	48 / 775
ᄪᅙ	6.5	Battery weight (4)	kg	750	939	950	1119	1165

5		Pottorytypo		B "Super"	В	D "C o.r"	В	D "C"
Ē		Battery type		·		B "Super"	В	B "Super"
캺	1.2	Manufacturer's type designation		MR16N	MR16N	MR16N	MR16N	MR16N
Distinguishing mark	1.8	Load distance, centre of drive axle to fork	x (mm)	382	292	292	202	202
Si Dis	1.9	Wheelbase	y (mm)	1450	1450	1450	1450	1450
	2.1	Service weight	kg	3115	3309	3317	3498	3514
Veights	2.3	Axle loading, unladen front/rear(5)	kg	1924 / 1191	1947 / 1362	1952 / 1365	1955 / 1543	1965 / 1549
Nei.	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
	4.19	Overall length	I1 (mm)	2449	2539	2539	2629	2629
ខ	4.20	Length to face of forks	12 (mm)	1299	1389	1389	1479	1479
sio	4.28	Reach distance	14 (mm)	565	475	475	385	385
Dimensions	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
7 o	6.3	Battery according to DIN 43531/35/36 A, B, C, no		B "Super"	В	B "Super"	В	B "Super"
Eletric- engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 465	48 / 560	48 / 620	48 / 700	48 / 775
를 p	6.5	Battery weight (4)	kg	750	937	945	1119	1135

'		Battery type		C "Super"	С	C "Super"
mark	1.2	Manufacturer's type designation		MR20	MR20	MR20
	1.8	Load distance, centre of drive axle to fork	x (mm)	430	358	358
	1.9	Wheelbase	y (mm)	1500	1500	1500
	2.1	Service weight	kg	3626	3801	3847
	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2268 / 1358	2296 / 1504	2326 / 1520
Weights	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
	4.19	Overall length	I1 (mm)	2451	2523	2523
2	4.20	Length to face of forks	I2 (mm)	1301	1373	1373
2	4.28	Reach distance	14 (mm)	613	541	541
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2795	2846	2846
5	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
ē	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"
engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 620	48 / 700	48 / 775
ē	6.5	Battery weight (4)	kg	950	1119	1165

MF	R25	truck dimensions for batteries				
Distinguishing mark		Battery type		C "Super"	С	C "Super"
캶	1.2	Manufacturer's type designation		MR25	MR25	MR25
ring ma	1.8	Load distance, centre of drive axle to fork	x (mm)	503	431	431
Dis	1.9	Wheelbase	y (mm)	1650	1650	1650
	2.1	Service weight	kg	4084	4230	4292
Weights	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2552 / 1532	2565 / 1665	2606 / 1686
Wei	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
	4.19	Overall length	I1 (mm)	2528	2600	2600
S I	4.20	Length to face of forks	I2 (mm)	1378	1450	1450
Dimensions	4.28	Reach distance	14 (mm)	686	614	614
ner	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2890	2938	2938
ᅙ	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
7 o	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"
Eletric- engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 775	48 / 840	48 / 930
щē	6.5	Battery weight (4)	kg	1165	1306	1368

MI	R16	HD truck dimensions for batteries	3			
ing		Battery type		C "Super"	С	C "Super"
Distinguishing mark	1.2	Manufacturer's type designation		MR16HD	MR16HD	MR16HD
agi Big	1.8	Load distance, centre of drive axle to fork	x (mm)	308	308	308
Dis	1.9	Wheelbase	y (mm)	1450	1450	1450
"	2.1	Service weight	kg	4049	4224	4270
Weights	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2424 / 1625	2428 / 1796	2457 / 1813
Ş.	2.4	Axle loading fork advanced, laden front/rear	kg	891 / 4758	979 / 4845	1009 / 4861
	2.5	Axle loading fork retracted, laden front/rear	kg	2180 / 3469	2104 / 3720	2134/3736
	4.19	Overall length	I1 (mm)	2523	2523	2523
ន	4.20	Length to face of forks	12 (mm)	1373	1373	1373
isi	4.28	Reach distance	14 (mm)	491	491	491
Dimensions	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2834	2834	2834
₫	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2896	2896	2896
	4.35	Turning radius	Wa (mm)	1718	1718	1718
<u>.</u> ნ	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"
Eletric- engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 620	48 / 700	48 / 775
回る	6.5	Battery weight (4)	kg	950	1119	1165

5		Battery type		C "Super"	С	C "Super"
	1.2	Manufacturer's type designation		MR20HD	MR20HD	MR20HD
Distinguishing mark	1.8	Load distance, centre of drive axle to fork	x (mm)	353	281	281
2	1.9	Wheelbase	y (mm)	1500	1500	1500
	2.1	Service weight	kg	4471	4617	4679
gut	2.3	Axle loading, unladen front/rear ⁽⁵⁾	kg	2597 / 1874	2577 / 2040	2616 / 2063
Weights	2.4	Axle loading fork advanced, laden front/rear	kg	921 / 5550	985 / 5632	1024 / 5655
	2.5	Axle loading fork retracted, laden front/rear	kg	2266 / 4205	2149 / 4468	2189 / 4490
	4.19	Overall length	I1 (mm)	2528	2600	2600
S I	4.20	Length to face of forks	12 (mm)	1378	1450	1450
20	4.28	Reach distance	14 (mm)	536	464	464
Dimensions	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2850	2903	2903
٥	4.34.2	Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2904	2970	2970
	4.35	Turning radius	Wa (mm)	1767	1767	1767
5 g	6.3	Battery according to DIN 43531/35/36 A, B, C, no		C "Super"	С	C "Super"
engine	6.4	Battery voltage/nominal capacity K5	(V) / (Ah)	48 / 775	48 / 840	48/930
ē	6.5	Battery weight (4)	kg	1165	1306	1368

Feature	MR14 / 16	MR16N	MR20 / 25	MR16HD	MR20HD
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	0	0	0	0	0
Full suspension seat - 60 mm suspension travel cloth upholstery					
Full suspension seat - 80 mm suspension travel cloth upholstery	0	0	0	0	0
Headrest (cloth version only)	0	0	0	0	О
Synchronised seat cushion and backrest movement (cloth version only)	0	0	О	0	0
Seat belt	0	0	0	0	0
Heated seat	0	0	0	0	0
Antistatic seat (cloth version only)	0	0	О	0	0
Vinyl seat upholstery	0	0	0	0	0
Standard display					
Premium display with touch screen	0	0	0	0	0
Keyless access	0	0	О	0	0
Adjustable steering column					
Automatic park brake Yalestop					
180° steering					
360° steering	0	0	0	0	О
Driver select steering mode 180/360° (push button)	0	0	0	0	0

,	Feature	MR14 / 16	MR16N	MR20 / 25	MR16HD	MR20HE
	Travel speed 11 km/h	•		+	+	+
	Travel speed 14 km/h with electric load wheel braking	0	0			
2	Speed slow down mast reached forward					
3	Speed slow down on cornering	•				
-	Speed slow down over free lift					
	3 stage mast / tilting carriage	-				
	Simultaneous lift / reach functionality					
<u> </u>	Simultaneous hydraulic functionality - 3 functions	0	0	0	0	0
	Mast cushioning over free lift/main lift sections - fixed sensor mounting		•			+
	Lift Comfort package (1)	0	0	0		
	Lift Performance package	0	0	+		
	Laser line fork positioning aid (above free lift)	0	0	0	0	0
	Auto side shift centring	0	0	0	0	0
Ļ	Auto fork levelling in the horizontal position	0	О	0	0	0
	Height preselector (with/without pallet detection device)	0	0	0	0	0
	Fork mounted camera / monitor	0	0	0	0	0
	Weight indicator	0	0	0	0	0
	5th hydraulic function	0	0	0	0	0
	Universal support bracket	0	О	0	0	0
	Beverage holder and document tray	0	О	0	0	0
	A4 clipboard	0	0	0	0	0
	Stretch film roll holder	0	0	0	0	0
	Lift limit with override (1 x height setting)	0	0	0	0	0
	Lift limit with override (2 x height settings)	0	0	0	0	0
	Lower limit (with override option)	0	О	0	0	0
	Flashing beacon	0	О	0	0	0
	Work lights x 2 (mast side)	0	0	0	0	0
	Work lights x 2 (drive side)	О	0	0	0	0
	Polycarbonate (lexan) protection on overhead guard	0	0	0	0	0
	Metal grid protection on overhead guard	0	0	0	0	0
	Top / front load wheel protection		=		•	-
	Side load wheel protection	0	0	0	О	0
	High temperature environment	0	0	0	0	0
	Side battery change - battery tray rollers	0	0	0	0	0
	Side battery change table	0	0	0	0	0
	Extension cable	0	0	0	0	0
	Drive-in overhead guard (w900 x h1400 / w900 x h1700 mm)	0	0	0	0	0
	Antistatic drive and load wheels	0	О	0	0	0
	Wet surface drive and load wheels	0	0	0	0	0
	Side guidance rollers	0	0	MR20	О	0
	DC/DC converter (choice of 12V/48V, 24V / 48V, 12-24V / 48V options)	0	0	0	0	0
	Audible alarm (choice of forks leading, forks trailing, both travel direction	s) O	0	0	0	0
	Load backrest (choice of heights 1000 / 1500 mm)	0	0	0	0	0
	Chassis width (max) 1265 mm		+	MR20		+
	1125 mm	+	-	+	+	+
٠	1345 mm	+	+	MR25	+	0
	Battery sizes (2) 420 - 465 Ah	0	0	+	+	+
	560 - 620 Ah	0	0	O MR20	0	+
	700 - 775 Ah	0	0	0	0	0
	840 - 930 Ah	+	+	O MR25	+	0

End of stroke slow down on lift.

Soft stop on lowering.
Height controlled mast cushioning over Free Lift/Main lift mast section.
Height indicator.

DIN C battery on MR14/MR16/MR20/MR25/MR16HD/MR20HD
DIN B battery on MR16N

O Optional

+ Not available

	1.1	Manufacturer (abbreviation)		Yale	Yale
Distinguishing mark	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
	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
	3.1	Tyres: polyurethane, topthane, vulkollan, front/rear		Vulkollan / Vulkollan	Vulkollan / Vulkollan
	3.2	Tyre size, front	ø mm x mm	343 x 140	343 x 140
5	3.3	Tyre size, rear	ø mm x mm	285 x 100	285 x 100
Tyres/chassis	3.5	Wheels, number front/rear (x = driven wheels)		1 x /2	1 x /2
•	3.7	Tread, rear	b11 (mm)	1155	1155
	4.1	Tilt of mast/fork carriage forward/backward	/ (°)	2/4	2/4
	4.2	Height of mast, lowered	h1 (mm)	2195	2195
	4.3	Free lift	h2 (mm)	1648	1648
	4.4	Lift	h3 (mm)	5000	5000
	4.5	Height, mast extended (1)	h4 (mm)	5563	5563
	4.7	Height of overhead guard (cabin) ⁽²⁾	h6 (mm)	2175	2175
	4.8	Seat height/stand height	h7 (mm)	1082	1082
		Height of wheel arms	h8 (mm)	308	308
	4.19	Overall length	I1 (mm)	2379	2379
		Length to face of forks	12 (mm)	1229	1229
		Overall width (3)	b1/b2 (mm)	1265	1265
Dimensions					40 / 120 / 1150
		Fork dimensions ISO2331	s/e/l (mm)	40 / 80 / 1150	
		Fork carriage ISO 2328, class/type A,B	10()	2A	2A
		Fork carriage width	b3 (mm)	700	700
		Distance between fork-arms, min./max. (8)	b5 (mm)	220 / 640	260 / 680
		Distance between wheel arms / loading surfaces	b4 (mm)	900	900
		Reach distance	I4 (mm)	585	635
		Ground clearance, laden, below mast	m1 (mm)	75	75
		Ground clearance, centre of wheelbase	m2 (mm)	75	75
		Aisle width for pallets 1000mm x 1200mm crossways	Ast (mm)	2718	2731
		Aisle width for pallets 800mm x 1200mm lengthways	Ast (mm)	2764	2767
		Turning radius	Wa (mm)	1671	1718
	4.37	Length across load arms	17 (mm)	1795	1845
	4.43	Step height	mm	371	371
	5.1	Travel speed, laden/unladen ⁽⁷⁾	km/h	11 / 11 (14 / 14)	11 / 11 (14 / 14)
2	5.1.1	Travel speed, laden/unladen, backwards (7)	km/h	11 / 11 (14 / 14)	11 / 11 (14 / 14)
5	5.2	Lift speed, laden/unladen	m/s	0.37 / 0.63 (0.47 / 0.73)	0.32 / 0.63 (0.42 / 0.73)
2	5.3	Lowering speed, laden/unladen	m/s	0.55 / 0.55	0.55 / 0.55
rei ioi illalice data	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
	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		С	С
?	6.4	Battery voltage/nominal capacity K5	(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 @ Nr of Cycles	on request	on request
	8.1	Type of drive unit		AC	AC
ş	_	Operating pressure for attachments	bar	180	180
אמווחחוו מפופ		Oil volume for attachments	I/min	20	20
		Sound pressure level at the driver's seat	dB (A)	<69.7	<69.7
		222 procedu o reversa da arte di iver e dedic	~~ v v		

Yale	Yale	Yale	Yale	Yale	1.1
MR16N	MR16HD	MR20	MR20HD	MR25	1.2
Electric (Battery)	Electric (Battery)	Electric (Battery)	Electric (Battery)	Electric (Battery)	1.3
Seated	Seated	Seated	Seated	Seated	1.4
1600	1600	2000	2000	2500	1.5
600	600	600	600	600	1.6
382	308	430	353	503	1.8
1450	1450	1500	1500	1650	1.9
3111	4038	3615	4425	4038	2.1
1922 / 1189	2417 / 1621	2261 / 1354	2567 / 1858	2520 / 1518	2.3
569 / 4142	883 / 4755	671 / 4943	891 / 5534	773 / 5765	2.4
1680 / 3032	2172 / 3466	2032 / 3583	2235 / 4189	2371 / 4167	2.5
Vulkollan / Vulkollan	Vulkollan / Vulkollan	Vulkollan / Vulkollan	Vulkollan / Vulkollan	Vulkollan / Vulkollan	3.1
343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	3.2
285 x 100	285 x 100	285 x 100	285 x 140	285 x 140	3.3
1 x /2	1x/2	1x/2	1x/2	1x/2	3.5
1025	1155	1155	1195	1195	3.7
2/4	2/4	2/4	2/4	2/4	4.1
2195	3227	2195	3227	2195	4.2
1648	2680	1582	2614	1582	4.3
5000	8050	4650	7900	4650	4.4
5563	8613	5263	8513	5263	4.5
2175	2175	2175	2175	2175	4.7
1082	1082	1082	1082	1082	4.8
308	308	308	308	308	4.10
2449	2523	2451	2528	2528	4.19
1299	1373	1301	1378	1378	4.20
1125	1265	1265	1345	1345	4.21
40 / 120 / 1150	40 / 120 / 1150	40 / 120 / 1150	45 / 120 / 1150	45 / 120 / 1150	4.22
2A	2A	2A	2A	2A	4.23
700	700	700	700	700	4.24
260 / 680	260/680	260/680	260/680	260/680	4.25
795	900	900	900	900	4.26
565	491	613	536	686	4.28
75	65	65	65	65	4.31
75	65	65	65	65	4.32
2762	2834	2795	2850	2890	4.34.1
2811	2896	2835	2904	2915	4.34.2
1700	1718	1767	1767	1911	4.35
1845	1845	1895	1895	2045	4.37
371	371	371	371	371	4.43
11 / 11 (14 / 14)	14 / 14	14 / 14	14 / 14	14 / 14	5.1
11 / 11 (14 / 14)	14 / 14	14 / 14	14 / 14	14 / 14	5.1.1
0.32 / 0.63 (0.42 / 0.73)	0.42 / 0.73	0.37 / 0.64	0.37 / 0.68	0.30 / 0.64	5.2
0.55 / 0.55	0.55 / 0.55	0.55 / 0.50	0.55 / 0.55	0.55 / 0.50	5.3
0.15 / 0.15	0.15 / 0.15	0.15 / 0.15	0.15 / 0.15	0.15 / 0.15	5.4
11 / 15	10 / 14	10 / 15	8 / 13	8 / 14	5.7
12 / 15	12 / 15	12 / 15	12 / 15	12 / 15	5.8
on request	on request	on request	on request	on request	5.9
Electric	Electric	Electric	Electric	Electric	5.10
6.4	6.4	6.4	6.4	6.4	6.1
14	14	14	14	14	6.2
			C C		
C 420 ⁽⁶⁾	C	C 48 / 560 ⁽⁶⁾		C 48 / 700 ⁽⁶⁾	6.3
48 / 420 ⁽⁶⁾	48 / 700 (6)		48 / 700 ⁽⁶⁾	48 / 700 ⁽⁶⁾	6.4
750	939	939	1119	1119	6.5
on request	on request	on request	on request	on request	6.6
AC	AC	AC	AC	AC	8.1
180	180	180	180 20	180	10.1
20				20	10.2

All values are nominal values and they are subject to tolerances. For further information, please contact the manufacturer.

 ⁽⁷⁾ Values in brackets are Optional.
 (8) Sideshift distance on either side is + 1 - 75 mm on all trucks. Reduction of + 1 - 25 mm on MR16N.

Yale products might be subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

MR Series



The new Yale®MR Series Reach Truck features three piece design same for all different models. The main differentiators between the models are the wheelbase and the truck width.

Overhead Guard

The one piece welded overhead guard gives a good visibility to all directions. The two different pillar profiles give adequate stiffness strength, with a minimum impact on visibility. As option drive-in overhead guards are available.

Operator Compartment

The operator compartment structure is a one piece welded structure developed for long term durability. It is bolted on the frame having boxed bottom part for stiff compartment and reduced vibrations to the operator.

The step with grip profile has a maximum depth of 130 mm and low height of 371mm.





Frame

Completely welded base frame is available in 2 basic widths and 4 different lengths. The HD version has an increased width over the load arms. The width is reduced to the standard width of the frame with an angled plate at the connection to the load arms and rear frame.

Seats

Two different full-suspension seats with additional options are available, both of which are adjustable for operator weight, fore/aft position and backrest angle.

Steering Console

The steering console is one hand adjustable for length to provide the optimum position for the operator. It has a 10° incline in the direction of the operator, as a result of the length adjustment the height will increase with 17.5 mm from the max in to max out position. This will ease the in- and egress of the operator even in extracted steering column





position. To improve operators left arm ergonomics the steering column is slightly 3° angled anti clockwise.

Steering System

The steering system is a fully flyby-wire system. The steer wheel input and the steer motor output are connected to the controller and managed by the VCM. The steer positioning sensors provide feedback of the actual steer position. The standard steering has a 180° steer angle, a 360° option is available and enabled by the VCM software. A third option allows switching from 180° to 360° by pressing a steering mode selection switch on the dashboard. Speed reduction on cornering is automatic and can be adjusted.

Foot Pedals

Low resistant foot pedals positioned on the slightly inclined (13°) floor plate to improve the pedal operation ergonomics. The useful



ADAPTALIFT GROUP

MR Series



operator floor space is increased with the pedal layout is divided over the available width. The operator presence switch is slightly rotated to the mid line off the operator seat to improve operator left foot position. The thick (min. 8 mm) one piece floor mat absorbs vibrations and noise out of the motor compartment.

Dash Display

The display is integrated in the dashboard in front of the operator. In this location the display is easy to read and to operate. The standard display utilises the proven display design from Yale ECB trucks. An optional industry first premium touch screen display allows operators to be in full control of the truck at all times.

Vehicle Control Manager

The Vehicle Control Manager (VCM) is the central module of the truck and it is linked to the truck modules via Dual CANbus system to increase





reliability and truck dependability. With this proven technology used in the automobile sector point to point wiring is greatly reduced.

Hydraulic Controls

The Hydraulic controls are integrated in ergonomic sliding armrest under driver's right hand. The standard controls is proven AccuTouch™ mini-levers module with separate horn and direction switches. New designed Joystick with integrated mini lever joystick for best ergonomic hydraulic operation is available as option.

Masts

New 3 stage full free lift mast incorporates new unique Yale designed profiles that reduce the total mast channel width. Lift cylinders position optimised to increase operator visibility and cross members are not in direct line of visibility for critical heights. The stiff and robust mast carriage is a welded construction made out





of two lateral plates of 30 mm and several cross bars and base plate of 12 mm thick to create an open boxed frame.

Motors

The next generation AC drive motor is standard across the model range. The drive motor remains in a fixed position to avoid flexing of the power cables. Optimised acceleration and travel speed performance (up to 14 km/h) delivers high load handling efficiency productivity. Easy access through swing-open motor compartment door. The steering motor also uses AC technology and the gear on gear arrangement provides a positive mesh for precise steering control. On power up the drive wheel is automatically centred. A removable plate allows access to the drive tyre/ gear reducer for servicing. The motor compartment including the hoist motor is ventilated.



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TASMANIA

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NEW SOUTH WALES

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QUEENSLAND

Rockhampton Mackay Cairns Gladstone Townsville Mt Isa Toowoomba Gold Coast Sunshine Coast

SOUTH AUSTRALIA/NT

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