



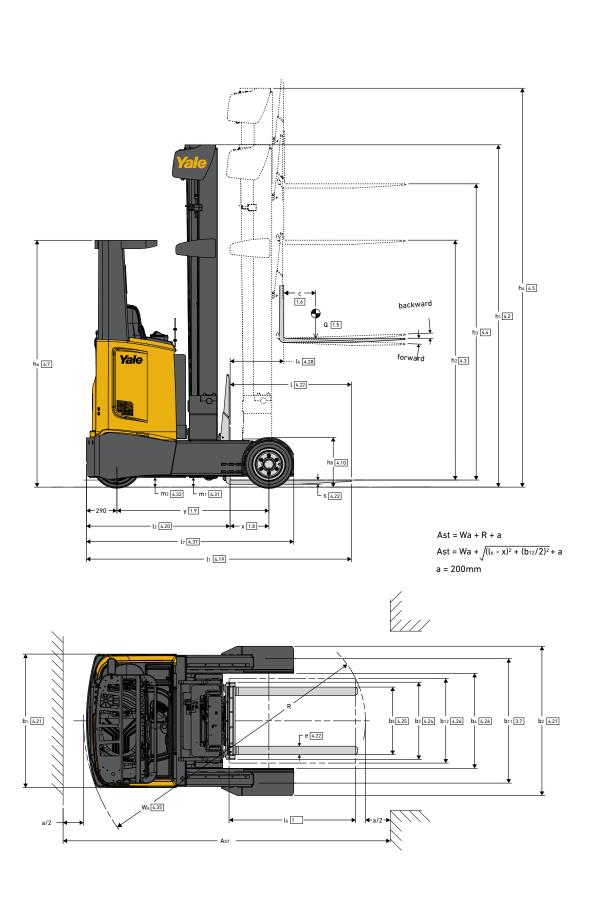
# MR016-20

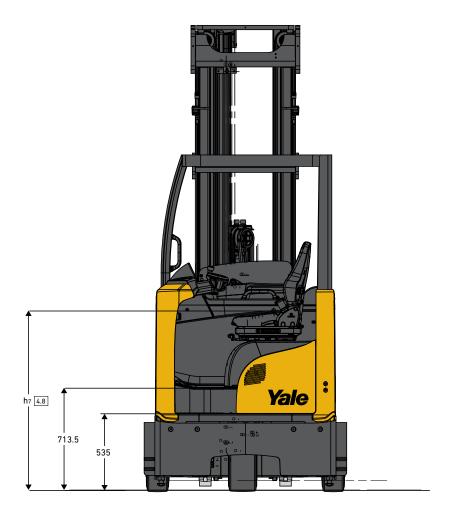
1,600 - 2,000 kg.

MR0 Series

Outdoor Reach Truck

SPEC SHEET





				MR016	MRO16	MR020	MRO20	
L	1-2	Manufcturer's type designation			w/ fullcab		w/ fullcab	
	1-3	Drive		Electric (I				
	1-4	Operator type	Q (kg)	Seated 2.0				
	1-5 1-6	Rated capacity/Rated load Load centre distance	c (mm)		600		.0	
	1-8	Load distance, centre of drive axle to fork	x (mm)	364	307	414	357	
	1-9	Wheelbase	y (mm)		440	14		
	2-1	Service weight	kg	3827	3971	4123	4266	
	2-3	Axle loading, unladen front/rear (5)	kg	2221/1606	2288/1683	2381/1742	2439/182	
	2-4	Axle loading fork advanced, laden front/rear	kg	683/4744	805/4766	603/5520	617/5649	
-	2-5	Axle loading fork retracted, laden front/rear	kg	1965/3462	1968/3603	2139/3984	2120/414	
	3-1	Tyres front/rear Tyre size, front			Pneumatic-sl 200/50			
	3-3	Tyre size, rear			180/6			
	3-5	Wheels, number front/rear (x = driven wheels)			1x/			
	3-7	Tread, rear	b11 (mm)		1225	5.5		
T	4-1	Tilt of mast/fork carriage forward/backward	α / β (0)		2 /	4		
	4-2	Height of mast, lowered	h1 (mm)		221	2		
	4-3	Free lift	h2 (mm)		648	15		
	4-4	Lift	h3 (mm)		000	46		
	4-5	Height, mast extended (1)	h4 (mm)		580	52		
	4-7 4-8	Height of overhead guard (cabin) (2-12-15) Seat height relating to SIP	h6 (mm) h7 (mm)	2339	2414   129	2339	2414	
	4-8 4-10	Height of wheel arms	h8 (mm)		129			
	4-10	Overall length (3)	l1 (mm)	2516	2628	2516	2628	
	4-20	Length to face of forks (9)	l2 (mm)	1366	1478	1366	1478	
	4-21	Overall width	b1 /b2 (mm)		1265/	1414		
	4-22	Fork dimensions DIN ISO 2331	s/e/l (mm)		40/120	/1150		
	4-23	Fork carriage ISO 2328, class/type A, B			2A			
	4-24	Fork-carriage width	b3 (mm)		700			
	4-25	Forks spread MIN/MAX (8)	b5 (mm)		260/6			
	4-26 4-28	Distance between wheel arms/loading surfaces Reach distance	b4 (mm)	610	553	660	603	
	4-28 4-31	Ground clearance, laden, below mast	m1 (mm)	010	91.		003	
	4-31	Ground clearance, centre of wheelbase	m2 (mm)		91.			
	-34-1		Ast (mm)	2830	2931	2841	2941	
4	-34-2	Aisle width for pallets 800mm x 1200mm lengthwise (13)	Ast (mm)	2882	2993	2884	2997	
	4-35	Turning radius (14)	Wa (mm)	1755.5	1815	1802.5	1864	
	4-37	Length across wheel arms (10)	l7 (mm)	1966	2021	2016	2071	
	4-42		mm		714			
-	4-43	Step height (between intermediate steps and floor)	mm km/h	11 5	/ 12 5		11 2 / 10 /	
	5-1 5-1-1	Travel speed, laden/unladen Travel speed, laden/unladen, backwards	km/h km/h		/ 12,5 / 12,5	11,2 / 12,5 11,2 / 12,5	11,3 / 12, 11,3 / 12,	
	5-2	Lift speed, laden/unladen (7)	m/s		0,32 / 0,63 (0,42 / 0,73)	0,37 / 0,64	0,37 / 0,6	
	5-3	Lowering speed, laden/unladen	m/s		.55		/ 0,50	
	5-4	Reaching speed, laden/unladen	m/s		0,17 /			
	5-7	Gradeability, laden/unladen (17)	%	7,9 / 12,4	7,4 / 11,4	6,9 / 11,8	6,7 / 11,4	
	5-8	Max. gradeability laden/unladen (17)	%	10,3 / 15,7	9,7 / 14,5	9,1 / 15	8,8 / 14,4	
	5-9	Acceleration time laden/unladen	S	5,1	/ 4,6	5,3 / 4,6	5,1 / 4,6	
_	5-10	Service brake	kW		Elect			
	6-1	Drive motor S2 60 minute rating Lift motor, S3 15% rating (7)	kW		9.6 9.9			
	6-3	Battery according to DIN 43531/35/36 A,B,C, no	IX. V		7,7 C			
	6-4	Battery voltage/nominal capacity K5 (7)	(V) / (Ah)		48/56	0 (6)		
	6-5	Battery weight (4) (7)	kg		939			
	6-6	Energy consumption according to DIN EN 16796	kWh/h		4.0		4.59	
	6-7	Turnover output according to VDI 2198	t/h		63		6	
-	6-8	Turnover efficiency according to VDI 2198	t/kWh		15		7	
-	8-1	Type of drive unit	4D (A)		AC-Cont			
	10-1 10-2	Operating pressure for attachments  Oil volume for attachment	dB (A)		180 20			
	10-2	Sound pressure level at the driver's seat		<68,6	<68,6 (16)	<68,6	<68,6 (16)	
V 2 T F A	Vith bea 625 mr hese va orks re wailabl	d backrest h 4 + 508 mm (R01.6/MR016), + 443 mm (R02.0/MR020) acon and OHG h 6 + 120 mm.; otherwise With beacon h6 +95 mm m is 2570 mm for other CAB configuration, alues may vary of +/- 5%. tracted. e battery 48V / 620Ah (950 kg); Li-ion battery 48V / 432Ah (939 kg); attery 48V / 540Ah (936 kg)	(11) 2929 is 2870 and (12) With OHG Grid PI (13) 2991 is 2931 and (14) 1815 is 1755,5 a (15) With OHG and PA	d 2994 is 2933 mm for ot nd 1864 is 1802,5 mm fo	her CAB configuration ith OHG Screen Protector I her CAB configuration or other CAB configuration , With OHG and Double Wor	k Light to Front h6 + 22	'0 mm.	

<sup>(9) 1475</sup> is 1420 mm for other CAB configuration

MAST DIMENSIONS - MR016						
Lift	Free lift	Height of mast, lowered	Height, mast extended	Weight (2) (3)		
h3 mm	h2 mm	h1 mm	h4 <sup>(1)</sup> mm	kg		
5000	1648	2212	5579.5	911		
5250	1734	2298	5829.5	936		
5500	1820	2384	6079.5	961		
5750	1906	2470	6329.5	986		
6000	1992	2556	6579.5	1010		
6250	2078	2642	6829.5	1035		
6500	2164	2728	7079.5	1060		
6750	2250	2814	7329.5	1090		
7000	2336	2900	7579.5	1115		
7250	2422	2986	7829.5	1140		
7500	2508	3072	8079.5	1164		

MAST DIMENSIONS - MR020						
Lift	Free lift	Height of mast, lowered	Height, mast extended	Weight (2) (3)		
h3 mm	h2 mm	h1 mm	h4 <sup>(4)</sup> mm	kg		
4650	1582	2212	5279.5	958		
4900	1668	2298	5529.5	985		
5150	1754	2384	5779.5	1012		
5400	1840	2470	6029.5	1038		
5650	1926	2556	6279.5	1065		
5900	2012	2642	6529.5	1092		
6150	2098	2728	6779.5	1118		
6400	2184	2814	7029.5	1150		
6650	2270	2900	7279.5	1177		
6900	2356	2986	7529.5	1204		
7150	2442	3072	7779.5	1230		
7400	2528	3158	8029.5	1288		

<sup>(1)</sup> Mast 3 stage full free lift (1600kg): With load backrest 1000 mm height, h4 + 508 mm; with load backrest 1500 mm height, h4 + 1008 mm.

Description of the little litt

### FEATURES LIST - MR016

FEATURES LIST - MRUT6		
	STD	OPT
200/50-10 Super Elastic Drive Tyres	•	
200/50-10 Non-Marking Super Elastic Drive Tyres		•
180/60-10 Super Elastic Load Wheel	•	
180/60-10 Non-Marking Super Elastic Load Wheel		•
Free Lift Dampening by Sensor	•	
Free Lift Dampening by Sensor with Junction Box		•
Lift Comfort		•
12.5km/h Maximum Drive Speed	•	
Key Switch Start	•	
Operator Password Start		•
Standard Construction	•	
High Temperature Construction (>35° C)		•
1223 x 355 x 784mm Battery Compartment	•	
(for 560/620 Ah DIN C Battery)		
Vertical Battery Extraction	•	
Side Battery Extraction		•
Standard Display	•	
Premium Display		•
180 Degree Steering	•	
360 Degree Steering		•
180/360 Degree Steering		•
4 function hydraulics	•	
5 function hydraulics		•
4 Lever Hydraulic Controls	•	
Joystick Hydraulic Control		•
Simultaneous Hydraulic Operation for Lift and Reach	•	
Simultaneous Hydraulic Operation for all Hydraulics		•
Autocentre Sideshift		•
Autolevel Tilt		•
Full Suspension MSG20 Cloth Seat	•	
Full Suspension MSG20 SKAI Seat		•
Full Suspension MSG65 Cloth Seat		•
Full Suspension MSG65 SKAI Seat		•
Full Suspension MSG75 Cloth Seat		•
Full Suspension MSG75 SKAI Seat		•
Seat Belt		•
Hi-Vis Orange 2 Point Seat Belt		•
Heated Seat		•
Anti-Static Seat		•
Head Rest		•
Traction Block on Seat and Belt		•
700mm Integral Sideshift Tilting Carriage	•	
800 x 120 x 35mm Forks		•
1000 x 120 x 35mm Forks		•
1150 x 120 x 35mm Forks		•
1200 x 120 x 35mm Forks		•
800 x 120 x 40mm Forks		•
1000 x 120 x 40mm Forks		•
1150 x 120 x 40mm Forks		•
1200 x 120 x 40mm Forks		•
1500 X 120 X 40MM Forks		•
1800 X 120 X 40MM Forks		•

	STD	ОРТ
1200 x 130 x 57mm - 850mm/250mm Telescopic Type Forks		•
1400 x 130 x 57mm - 1050mm/250mm Telescopic Type Forks		•
1200 x 140 x 62mm - 850mm/250mm Telescopic Type Forks		
1400 x 140 x 62mm - 1050mm/250mm Telescopic Type Forks		•
800mm Bolzoni Hang on Fork Positioner		
(315-755mm opening range)		•
1000mm High Load Backrest		•
Single Height Lift Interrupt with Override		•
Double Height Lift Interrupt with Override		•
Height Selector		•
Height Selector with Pallet Presence		•
Fork Lower Interlock		•
Fork Laser Positioning System		•
Fork Mounted Colour Camera		•
Load Backrest Mounted Colour Camera		•
Inner Mast Camera and Monitor		•
Work Lights Carriage Mounted		•
Full View Overhead Guard		•
Rear/Top Screens with Rear/Top Wipers		•
Rear/Top/Side Screens with Rear/Top Wipers		•
Full Steel Cab with Front Washer/Wiper and Rear/Top Wiper		•
Lexan Overhead Guard Cover		•
Metal Grid Overhead Guard Cover		•
Load Weight Display		•
Universal Support Bracket		•
Clip Board		•
Document and Beverage Holders		•
Stretch Film Roll Holder		•
Panoramic Mirror		•
RF Terminal Bracket		•
12 Volt DC/DC Converter		•
24V DC/DC Converter		•
24-12V DC Converter		•
One Front LED Work Light		•
2 Rear LED Work Lights		•
One Front and Two Rear LED Work Lights		•
Two Front LED Worklights		•
2 Front and 2 Rear Halogen Work Lights		•
Amber Strobe Light - Ignition and Switch Activated		•
sAudible Forward Alarm (Forks Trailing)		•
Audible Reverse Alarm (Forks Leading)		•
Red Line (Side) Pedestrian Awareness Lights (P.A.L.)		•
Blue LED Spotlight - Rear - Reverse Direction Activation		•
Red Pedestrian Awareness Light (P.A.L.) - Reverse Activation (Forks Trailing)		•
Blue Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Trailing)		•
Blue LED Spotlight - Front and Rear Mounted - Forward and Reverse Direction Activation		•
Front Spotlight - Blue LED / Rear Spotlight - Red LED		•
Red Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Leading)		•
Front Spotlight - Red LED / Rear Spotlight - Blue LED		•
Front Spotlight - Red LED / Rear Spotlight - Red LED		•

## FEATURES LIST - MR020

FEATURES LIST - MRUZU		
	STD	OPT
200/50-10 Super Elastic Drive Tyres	•	
200/50-10 Non-Marking Super Elastic Drive Tyres		•
180/60-10 Super Elastic Load Wheel		•
180/60-10 Non-Marking Super Elastic Load Wheel		•
Free Lift Dampening by Sensor	•	
Free Lift Dampening by Sensor with Junction Box		•
Lift Comfort		•
12.5km/h Maximum Drive Speed		•
Key Switch Start	•	
Operator Password Start		•
Standard Construction	•	
High Temperature Construction (>35° C)		•
1223 x 355 x 784mm Battery Compartment (for 560/620 Ah DIN C Battery)	•	
Vertical Battery Extraction	•	
Side Battery Extraction		•
Standard Display	•	
Premium Display		
180 Degree Steering		_
360 Degree Steering		
180/360 Degree Steering		
4 function hydraulics		
5 function hydraulics	_	
·		
4 Lever Hydraulic Control	•	
Joystick Hydraulic Control		•
Simultaneous Hydraulic Operation for Lift and Reach	•	
Simultaneous Hydraulic Operation for all Hydraulics  Autocentre Sideshift		•
Autolevel Tilt		•
		•
Full Suspension MSG20 Cloth Seat	•	
Full Suspension MSG20 SKAI Seat		•
Full Suspension MSG65 Cloth Seat		•
Full Suspension MSG65 SKAI Seat		•
Full Suspension MSG75 Cloth Seat		•
Full Suspension MSG75 SKAI Seat		•
Seat Belt		•
Hi-Vis Orange 2 Point Seat Belt		•
Heated Seat		•
Anti-Static Seat		•
Head Rest		•
Traction Block on Seat and Belt		•
700mm Integral Sideshift Tilting Carriage	•	
800 x 120 x 35mm Forks	-	-
1000 x 120 x 35mm Forks	-	-
1150 x 120 x 35mm Forks	-	-
1200 x 120 x 35mm Forks	-	-
800 x 120 x 40mm Forks		•
1000 x 120 x 40mm Forks		•
1150 x 120 x 40mm Forks		•
1200 x 120 x 40mm Forks		•
1500 X 120 X 40MM Forks		•
1800 X 120 X 40MM Forks		•

	STD	OPT
1200 x 130 x 57mm - 850mm/250mm Telescopic Type Forks		•
1400 x 130 x 57mm - 1050mm/250mm Telescopic Type Forks		•
1200 x 140 x 62mm - 850mm/250mm Telescopic Type Forks		•
1400 x 140 x 62mm - 1050mm/250mm Telescopic Type Forks		•
800mm Bolzoni Hang on Fork Positioner		•
(315-755mm opening range)		
1000mm High Load Backrest		
Single Height Lift Interrupt with Override		•
Double Height Lift Interrupt with Override		
Height Selector		•
Height Selector with Pallet Presence Fork Lower Interlock		
		•
Fork Laser Positioning System		•
Fork Mounted Colour Camera		•
Load Backrest Mounted Colour Camera		
Inner Mast Camera and Monitor		•
Work Lights Carriage Mounted		•
Full View Overhead Guard		•
Rear/Top Screens with Rear/Top Wipers		•
Rear/Top/Side Screens with Rear/Top Wipers		•
Full Steel Cab with Front Washer/Wiper, Rear/Top Wiper		•
Lexan Overhead Guard Cover		•
Metal Grid Overhead Guard Cover		•
Load Weight Display		•
Universal Support Bracket		•
Clip Board		•
Document and Beverage Holders		•
Stretch Film Roll Holder		•
Panoramic Mirror		•
RF Terminal Bracket		•
12 Volt DC/DC Converter		•
24V DC/DC Converter		•
24-12V DC Converter		•
One Front LED Work Light		•
2 Rear LED Work Lights		•
One Front and Two Rear LED Work Lights		•
Two Front LED Worklights		•
2 Front and 2 Rear Halogen Work Lights		•
Amber Strobe Light - Ignition and Switch Activated		•
Audible Forward Alarm (Forks Trailing)		•
Audible Reverse Alarm (Forks Leading)		•
Red Line (Side) Pedestrian Awareness Lights (P.A.L.)		•
Blue LED Spotlight - Rear - Reverse Direction Activation		•
Red Pedestrian Awareness Light (P.A.L.) - Reverse Activation (Forks Trailing)		•
Blue Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Trailing)		•
Blue LED Spotlight - Front and Rear Mounted - Forward and Reverse Direction Activation		•
Front Spotlight - Blue LED / Rear Spotlight - Red LED		•
Red Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Leading)		•
Front Spotlight - Red LED / Rear Spotlight - Blue LED		•
Front Spotlight - Red LED / Rear Spotlight - Red LED		•



# About Yale®

Yale Lift Truck Technologies leverages over a century of material handling experience and substantial investment in innovation to bring the most advanced technology-driven lift truck solutions to market. The company offers a full line of award-winning lift trucks, including reach trucks, order pickers, turret trucks, pallet jacks and trucks, pallet stackers, tow tractors and counterbalanced forklifts, as well as powerful operator assist solutions, proven robotics and a wide range of power sources to help customers adapt to today's demanding supply chain. Yale and its independent dealer network support these solutions with comprehensive after-sales service, parts, financing and training.

Yale Lift Truck Technologies is a trading name of Hyster-Yale Asia-Pacific Pty Ltd., a wholly owned subsidiary of Hyster-Yale Materials Handling, Inc.(NYSE:HY) which is headquartered in Cleveland, Ohio and operates globally.

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