

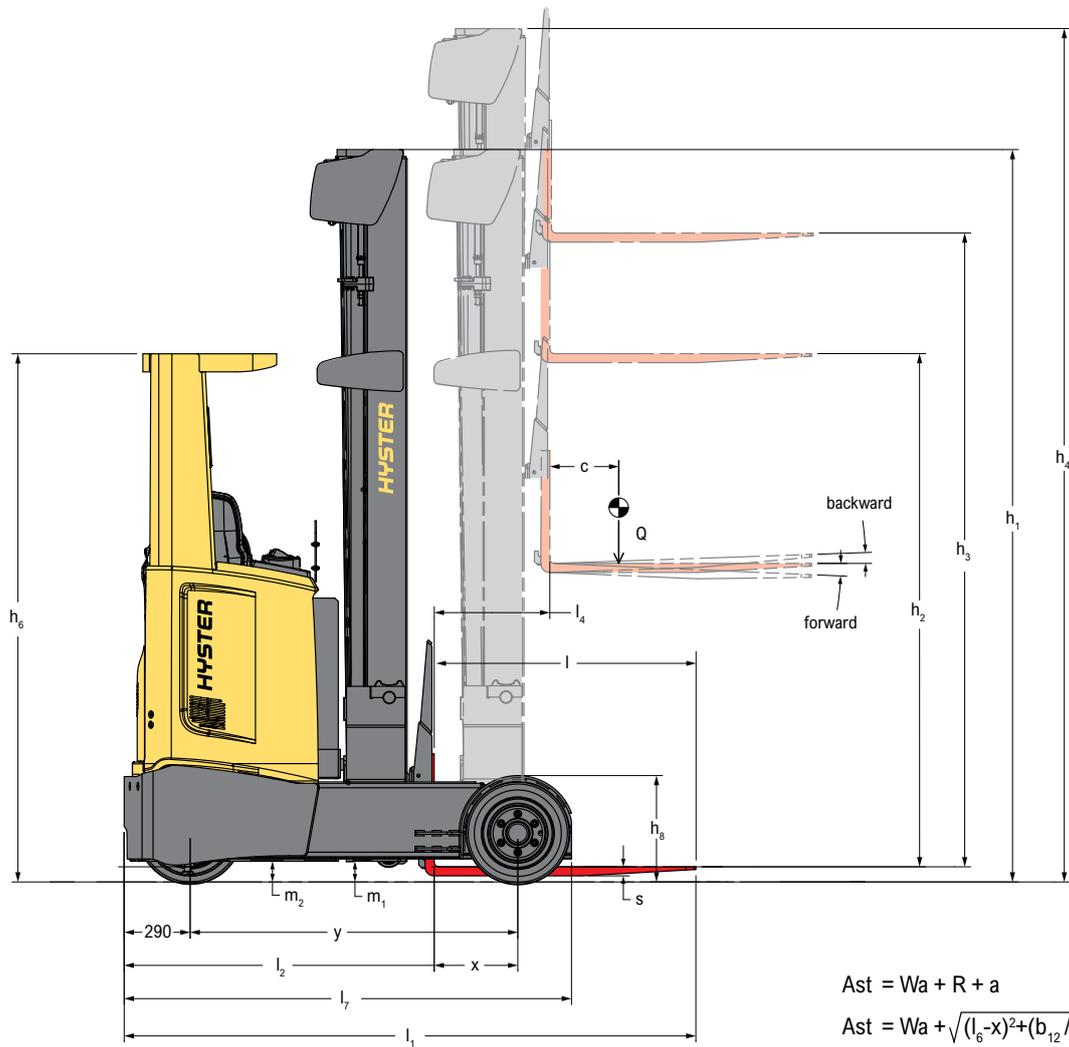
R01.6-2.0 SERIES



OUTDOOR REACH TRUCK PRODUCT TECHNICAL GUIDE



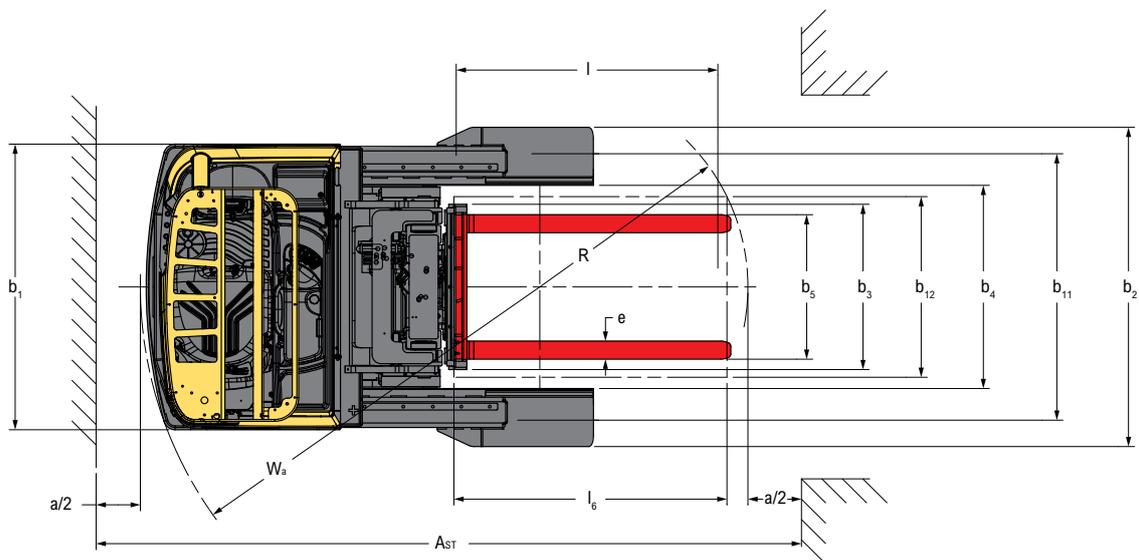
TRUCK DIMENSIONS

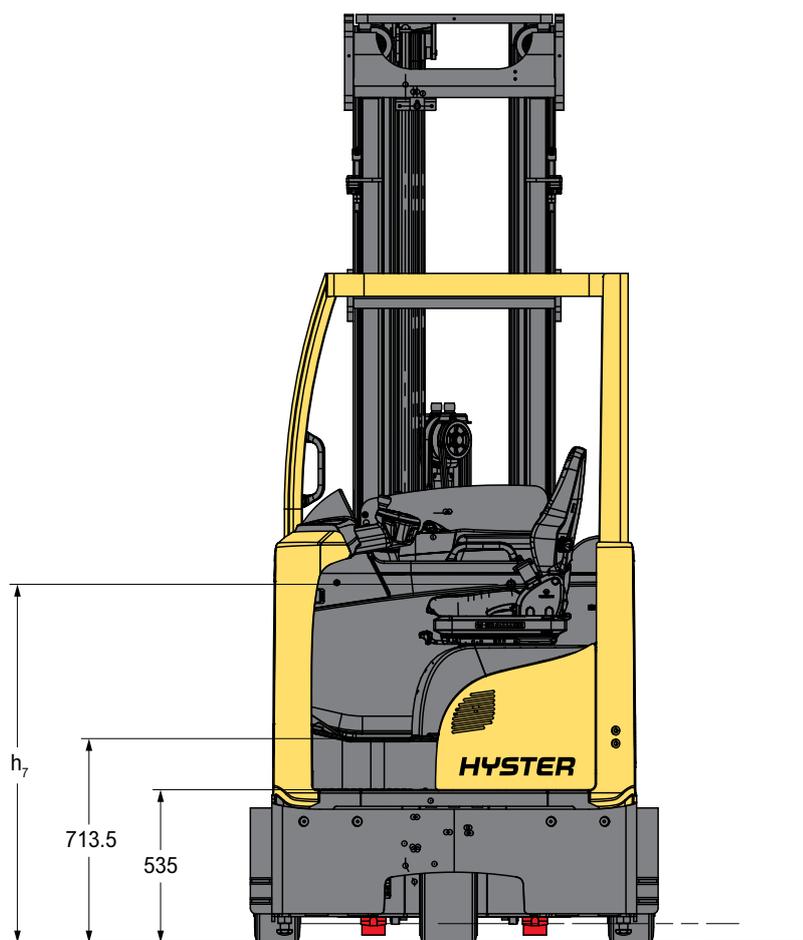


$$A_{st} = W_a + R + a$$

$$A_{st} = W_a + \sqrt{(l_6 - x)^2 + (b_{12}/2)^2} + a$$

$$a = 200\text{mm}$$





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

R01.6, R02.0

GENERAL	1-1	Manufacturer		HYSTER						
	1-2	Manufacturer's type designation		R01.6	R01.6 w/ full cab	R02.0	R02.0 w/ full cab			
WEIGHT	1-3	Drive		Electric (battery)						
	1-4	Operator type		Seated						
DIMENSIONS	1-5	Rated capacity/Rated load	Q	kg	1.6		2.0			
	1-6	Load centre distance	c	mm	600					
	1-8	Load distance, centre of drive axle to fork	x	mm	364	307	414	357		
	1-9	Wheelbase	y	mm	1440		1490			
	WHEELS	2-1	Service weight		kg	3827	3971	4123	4266	
		2-2	Axle loading, unladen front/rear ⁽⁵⁾		kg	2221 / 1606	2288 / 1683	2381 / 1742	2439 / 1827	
		2-3	Axle loading fork advanced, laden front/rear		kg	683 / 4744	805 / 4766	603 / 5520	617 / 5649	
		2-4	Axle loading fork retracted, laden front/rear		kg	1965 / 3462	1968 / 3603	2139 / 3984	2120 / 4146	
	PERFORMANCE	3-1	Tyres: SE = pneumatic-shaped solid, front/rear			SE/SE				
3-2		Tyre size, front		ø mm x mm	200 / 50-10					
3-3		Tyre size, rear		ø mm x mm	180 / 60-10					
3-5		Wheels, number front/rear (x = driven wheels)			1x / 2					
3-7		Tread, rear	b ₁₁	mm	1225.5					
ELECTRIC - ENGINE		4-1	Tilt of mast/fork carriage forward/backward	α / β	deg	2 / 4				
		4-2	Height of mast, lowered	h ₁	mm	2212				
		4-3	Free lift	h ₂	mm	1648			1582	
		4-4	Lift	h ₃	mm	5000			4650	
		4-5	Height, mast extended ⁽¹⁾	h ₄	mm	5580			5280	
		4-7	Height of overhead guard (cabin) ⁽²⁻¹²⁻¹⁵⁾	h ₆	mm	2339	2414	2339	2414	
		4-8	Seat height relating to SIP	h ₇	mm	1294				
		4-10	Height of wheel arms	h ₈	mm	471				
		4-19	Overall length ⁽³⁾	l ₁	mm	2516	2628	2516	2628	
		4-20	Length to face of forks ⁽⁹⁾	l ₂	mm	1366	1478	1366	1478	
		4-21	Overall width	b ₁ , b ₂	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	b ₃	mm	700				
		4-25	Forks spread MIN/MAX ⁽⁹⁾	b ₅	mm	260 / 680				
		4-26	Distance between wheel arms/loading surfaces	b ₄	mm	900				
		4-28	Reach distance	l ₄	mm	610	553	660	603	
		4-31	Ground clearance, laden, below mast	m ₁	mm	91.5				
		4-32	Ground clearance, centre of wheelbase	m ₂	mm	91.5				
		DRIVE/LIFT MECHANISM	4-34-1	Aisle width for pallets 1000mm x 1200mm crossways ⁽¹¹⁾	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⁾	W _a	mm	1755.5	1815	1802.5	1864	
4-37	Length across wheel arms ⁽¹⁰⁾		l ₇	mm	1966	2021	2016	2071		
4-42	Step height (from ground to running board)			mm	714					
4-43	Step height (between intermediate steps and floor)			mm	535					
ADDITIONAL DATA	5-1		Travel speed, laden/unladen		km/h	11.5 / 12.5		11.2 / 12.5	11.3 / 12.5	
	5-1-1		Travel speed, laden/unladen, backwards		km/h	11.5 / 12.5		11.2 / 12.5	11.3 / 12.5	
	5-2		Lift speed, laden/unladen ⁽⁷⁾		m/s	0.32 / 0.63 (0.42 / 0.73)		0.37 / 0.64		
	5-3		Lowering speed, laden/unladen		m/s	0.55		0.55 / 0.50		
	5-4	Reaching speed, laden/unladen		m/s	0.17 / 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					
	5-10	Service brake			Electric					
	DRIVE/LIFT MECHANISM	6-1	Drive motor S2 60 minute rating		kW	9.6				
6-2		Lift motor, S3 15% rating ⁽⁷⁾		kW	9.9 ⁽¹⁴⁾					
6-3		Battery according to DIN 43531/35/36 A,B,C, no			C					
6-4		Battery voltage/nominal capacity K5 ⁽⁷⁾		(V)/(Ah)	48 / 560 ⁽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			76		
6-8		Turnover efficiency according to VDI 2198		t/kWh	15			17		
ADDITIONAL DATA	8-1	Type of drive unit			AC-Controller					
	10-1	Operating pressure for attachments		bar	180					
	10-2	Oil volume for attachment		l/min	20					
10-7	Sound pressure level at the driver's seat		dB(A)	<68.6	<68.6 ⁽¹⁶⁾	<68.6	<68.6 ⁽¹⁶⁾			

(1) With load backrest h4 + 508 mm (R01.6/MRO16), + 443 mm (R02.0/MRO20)
(2) With beacon and OHG h6 + 120 mm; otherwise with beacon h6 + 95 mm
(3) 2625 mm is 2570 mm for other CAB configuration
(4) These values may vary of +/- 5%
(5) Forks retracted
(6) Available battery 48V / 620Ah (950 kg); Li-ion battery 48V / 432Ah (939 kg); Li-ion battery 48V / 540Ah (936 kg)
(7) Values in brackets are Optional
(8) Side shift stroke is +/-75mm on all trucks
(9) 1475 is 1420 mm for other CAB configuration

(10) 2021 mm is 1966 mm for other CAB configuration
(11) 2929 is 2870 and 2941 is 2880 mm for other CAB configuration
(12) With OHG Grid Protector h6 + 30 mm; With OHG Screen Protector h6 + 45 mm
(13) 2991 is 2931 and 2994 is 2933 mm for other CAB configuration
(14) 1815 is 1755.5 and 1864 is 1802.5 mm for other CAB configuration
(15) With OHG and PAL side line h6 + 135mm, With OHG and Double Work Light to Front h6 + 220 mm. Otherwise with PAL side line h6 + xxx mm, with Double Light front h6 + 110 mm
(16) With heater SWITCHED ON = 73.8
(17) Gradeability grades based on motor thermal capacity, torque available and brake requirements

RO1.6

Lift h ₃ (mm)	Free lift h ₂ (mm)	Height of mast lowered h ₁ (mm)	Height, mast extended h ₄ (1) (mm)	Weight (2) (3) (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

RO2.0

Lift h ₃ (mm)	Free lift h ₂ (mm)	Height of mast lowered h ₁ (mm)	Height, mast extended h ₄ (4) (mm)	Weight (2) (3) (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

(1) 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.

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

(3) With load backrest 700 mm width, 1000 mm height, weight + 13 kg; with load backrest 700 mm width, 1500 mm height, weight + 21 kg.

(4) Mast 3 stage full free lift (2000kg): With load backrest 1000 mm height, h₄ + 443 mm; with load backrest 1500 mm height, h₄ + 943 mm. Carriage set at 480 mm from the ground.

NOTES:

Specifications are affected by the condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster® truck.

Specification data is based on VDI 2198



Safety: This truck conforms to the current EU and ANSI requirements.

NOTICE:

Care must be exercised when handling elevated loads. Operators must be trained and must read, understand and follow the instructions contained in the Operating Manual.

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.

NOTE: Specifications, unless otherwise listed, are for a standard truck without optional equipment.

STANDARD EQUIPMENT AND OPTIONS - R01.6

R01.6	STD	OPT
Frame B1 = 1265mm B2 = 1414mm B4 = 900mm	X	
200/50-10 Super Elastic Drive Tyres	X	
200/50-10 Non-Marking Super Elastic Drive Tyres		X
180/60-10 Super Elastic Load Wheel		X
180/60-10 Non-Marking Super Elastic Load Wheel		X
Free Lift Dampening by Sensor	X	
Free Lift Dampening by Sensor with Junction Box		X
Lift Comfort		X
12.5km/h Maximum Drive Speed	X	
Key Switch Start	X	
Operator Password Start		X
Standard Construction	X	
High Temperature Construction (>35° C)		X
1223 x 355 x 784mm Battery Compartment (for 560/620 Ah DIN C Battery)		X
Vertical Battery Extraction	X	
Side Battery Extraction		X
Standard Display	X	
Premium Display		X
180 Degree Steering	X	
360 Degree Steering		X
180/360 Degree Steering		X
4 function hydraulics	X	
5 function hydraulics		X
4 Lever Hydraulic Controls	X	
Joystick Hydraulic Control		X
Simultaneous Hydraulic Operation for Lift and Reach	X	
Simultaneous Hydraulic Operation for all Hydraulics		X
Autocentre Sideshift		X
Autolevel Tilt		X
Full Suspension MSG20 Cloth Seat	X	
Full Suspension MSG20 SKAI Seat		X
Full Suspension MSG65 Cloth Seat		X
Full Suspension MSG65 SKAI Seat		X
Full Suspension MSG75 Cloth Seat		X
Full Suspension MSG75 SKAI Seat		X
Seat Belt		X
Hi-Vis Orange 2 Point Seat Belt		X
Heated Seat		X
Anti-Static Seat		X
Head Rest		X
Traction Block on Seat and Belt		X
700mm Integral Sideshift Tilting Carriage	X	
800 x 120 x 35mm Forks		X
1000 x 120 x 35mm Forks		X
1150 x 120 x 35mm Forks		X
1200 x 120 x 35mm Forks		X
800 x 120 x 40mm Forks		X
1000 x 120 x 40mm Forks		X
1150 x 120 x 40mm Forks		X
1200 x 120 x 40mm Forks		X
1500 x 120 x 40mm Forks		X
1800 x 120 x 40mm Forks		X

R01.6	STD	OPT
1200 x 130 x 57mm - 850mm/250mm Telescopic Type Forks		X
1400 x 130 x 57mm - 1050mm/250mm Telescopic Type Forks		X
1200 x 140 x 62mm - 850mm/250mm Telescopic Type Forks		X
1400 x 140 x 62mm - 1050mm/250mm Telescopic Type Forks		X
800mm Bolzoni Hang on Fork Positioner (315-755mm opening range)		X
1000mm High Load Backrest		X
Single Height Lift Interrupt with Override		X
Double Height Lift Interrupt with Override		X
Height Selector		X
Height Selector with Pallet Presence		X
Fork Lower Interlock		X
Fork Laser Positioning System		X
Fork Mounted Colour Camera		X
Load Backrest Mounted Colour Camera		X
Inner Mast Camera and Monitor		X
Work Lights Carriage Mounted		X
Full View Overhead Guard		X
Rear/Top Screens with Rear/Top Wiper		X
Rear/Top/Side Screens with Rear/Top Wiper		X
Full Steel Cab with Front Washer/Wiper and Rear/Top Wiper		X
Lexan Overhead Guard Cover		X
Metal Grid Overhead Guard Cover		X
Load Weight Display		X
Universal Support Bracket		X
Clip Board		X
Document and Beverage Holders		X
Stretch Film Roll Holder		X
Panoramic Mirror		X
RF Terminal Bracket		X
12 Volt DC/DC Converter		X
24V DC/DC Converter		X
24-12V DC Converter		X
One Front LED Work Light		X
2 Rear LED Work Lights		X
One Front and Two Rear LED Work Lights		X
Two Front LED Worklights		X
2 Front and 2 Rear Halogen Work Lights		X
Amber Strobe Light - Ignition and Switch Activated		X
Audible Forward Alarm (Forks Trailing)		X
Audible Reverse Alarm (Forks Leading)		X
Red Line (Side) Pedestrian Awareness Lights (P.A.L.)		X
Blue LED Spotlight - Rear - Reverse Direction Activation		X
Red Pedestrian Awareness Light (P.A.L.) - Reverse Activation (Forks Trailing)		X
Blue Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Trailing)		X
Blue LED Spotlight - Front and Rear Mounted - Forward and Reverse Direction Activation		X
Front Spotlight - Blue LED / Rear Spotlight - Red LED		X
Red Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Leading)		X
Front Spotlight - Red LED / Rear Spotlight - Blue LED		X
Front Spotlight - Red LED / Rear Spotlight - Red LED		X

Please refer to Price List for full options configuration
Other options available through Special Products Engineering Department (SPED).
Contact Hyster for details.

STANDARD EQUIPMENT AND OPTIONS - R02.0

R02.0	STD	OPT
Frame B1 = 1265mm B2 = 1414mm B4 = 900mm	X	
200/50-10 Super Elastic Drive Tyres	X	
200/50-10 Non-Marking Super Elastic Drive Tyres		X
180/60-10 Super Elastic Load Wheel		X
180/60-10 Non-Marking Super Elastic Load Wheel		X
Free Lift Dampening by Sensor	X	
Free Lift Dampening by Sensor with Junction Box		X
Lift Comfort		
12.5km/h Maximum Drive Speed	X	
Key Switch Start	X	
Operator Password Start		X
Standard Construction	X	
High Temperature Construction (>35° C)		X
1223 x 355 x 784mm Battery Compartment (for 560/620 Ah DIN C Battery)		X
Vertical Battery Extraction	X	
Side Battery Extraction		X
Standard Display	X	
Premium Display		X
180 Degree Steering	X	
360 Degree Steering		X
180/360 Degree Steering		X
4 function hydraulics	X	
5 function hydraulics		X
4 Lever Hydraulic Controls	X	
Joystick Hydraulic Control		X
Simultaneous Hydraulic Operation for Lift and Reach	X	
Simultaneous Hydraulic Operation for all Hydraulics		X
Autocentre Sideshift		X
Autolevel Tilt		X
Full Suspension MSG20 Cloth Seat	X	
Full Suspension MSG20 SKAI Seat		X
Full Suspension MSG65 Cloth Seat		X
Full Suspension MSG65 SKAI Seat		X
Full Suspension MSG75 Cloth Seat		X
Full Suspension MSG75 SKAI Seat		X
Seat Belt		X
Hi-Vis Orange 2 Point Seat Belt		X
Heated Seat		X
Anti-Static Seat		X
Head Rest		X
Traction Block on Seat and Belt		X
700mm Integral Sideshift Tilting Carriage	X	
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		X
1000 x 120 x 40mm Forks		X
1150 x 120 x 40mm Forks		X
1200 x 120 x 40mm Forks		X
1500 x 120 x 40mm Forks		X
1800 x 120 x 40mm Forks		X

R02.0	STD	OPT
1200 x 130 x 57mm - 850mm/250mm Telescopic Type Forks		X
1400 x 130 x 57mm - 1050mm/250mm Telescopic Type Forks		X
1200 x 140 x 62mm - 850mm/250mm Telescopic Type Forks		X
1400 x 140 x 62mm - 1050mm/250mm Telescopic Type Forks		X
800mm Bolzoni Hang on Fork Positioner (315-755mm opening range)		X
1000mm High Load Backrest		X
Single Height Lift Interrupt with Override		X
Double Height Lift Interrupt with Override		X
Height Selector		X
Height Selector with Pallet Presence		X
Fork Lower Interlock		X
Fork Laser Positioning System		X
Fork Mounted Colour Camera		X
Load Backrest Mounted Colour Camera		X
Inner Mast Camera and Monitor		X
Work Lights Carriage Mounted		X
Full View Overhead Guard		X
Rear/Top Screens with Rear/Top Wiper		X
Rear/Top/Side Screens with Rear/Top Wiper		X
Full Steel Cab with Front Washer/Wiper and Rear/Top Wiper		X
Lexan Overhead Guard Cover		X
Metal Grid Overhead Guard Cover		X
Load Weight Display		X
Universal Support Bracket		X
Clip Board		X
Document and Beverage Holders		X
Stretch Film Roll Holder		X
Panoramic Mirror		X
RF Terminal Bracket		X
12 Volt DC/DC Converter		X
24V DC/DC Converter		X
24-12V DC Converter		X
One Front LED Work Light		X
2 Rear LED Work Lights		X
One Front and Two Rear LED Work Lights		X
Two Front LED Worklights		X
2 Front and 2 Rear Halogen Work Lights		X
Amber Strobe Light - Ignition and Switch Activated		X
Audible Forward Alarm (Forks Trailing)		X
Audible Reverse Alarm (Forks Leading)		X
Red Line (Side) Pedestrian Awareness Lights (P.A.L.)		X
Blue LED Spotlight - Rear - Reverse Direction Activation		X
Red Pedestrian Awareness Light (P.A.L.) - Reverse Activation (Forks Trailing)		X
Blue Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Trailing)		X
Blue LED Spotlight - Front and Rear Mounted - Forward and Reverse Direction Activation		X
Front Spotlight - Blue LED / Rear Spotlight - Red LED		X
Red Pedestrian Awareness Light (P.A.L.) - Forward Activation (Forks Leading)		X
Front Spotlight - Red LED / Rear Spotlight - Blue LED		X
Front Spotlight - Red LED / Rear Spotlight - Red LED		X

Please refer to Price List for full options configuration
Other options available through Special Products Engineering Department (SPED).
Contact Hyster for details.



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