



STRONG PARTNERS. TOUGH TRUCKS.



Reach Trucks **R1.4-R2.5**

1 400 - 2 500kg

R1.4, R1.4H, R1.6, R1.6H, R1.6N, R1.6HD, R2.0, R2.0H, R2.0HD, R2.0W, R2.5

CHARACTERISTICS	1.1	Manufacturer	HYSTER				HYSTER				HYSTER				HYSTER			
	1.2	Model designation	R1.4				R1.4H				R1.6				R1.6H			
	1.3	Power: battery, diesel, LPG, electric mains	Battery				Battery				Battery				Battery			
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	Seat				Seat				Seat				Seat			
	1.5	Load capacity	Q (kg)				1 400				1 600				1 600			
	1.6	Load centre	c (mm)				600				600				600			
	1.8	Load distance, centre of drive axle to forks	x (mm)				465				480				443			
	1.9	Wheelbase	y (mm)				1 435				1 450				1 485			
WEIGHT	2.1	Unladen weight 	2 980				3 440				3 000				3 680			
	2.3	Axle loading without load, front/rear 	2 010				970				2 220				1 220			
	2.4	Axle loading forks advanced, with load front/rear 	850				3 530				770				4 070			
	2.5	Axle loading forks retracted, with load frsont/rear 	1 860				2 520				1 970				2 870			
WHEELS & TYRES	3.1	Tyres: Polyurethane, tophane, vulkollan, front/rear	Polyurethane				Polyurethane				Polyurethane				Polyurethane			
	3.2	Tyre size, front	Ø mm x mm				305 x 140				305 x 140				342 x 140			
	3.3	Tyre size, rear	Ø mm x mm				250 x 100				285 x 100				350 x 100			
	3.5	No of wheels front/rear (x = driven)	1X				2				1X				2			
	3.6	Track width, front	b _{fr} (mm)				-				-				-			
	3.7	Track width, rear	b _{rr} (mm)				1 126				1 126				1 136			
DIMENSIONS	4.1	Tilt of mast/fork carriage forward/backward	Degrees (°)				2				2				2			
	4.2	Height of mast, lowered	h ₁ (mm)				2 125				3 025				2 125			
	4.3	Free lift	h ₂ (mm)				1 555				2 455				1 555			
	4.4	Lift height	h ₃ (mm)				4 626				7 026				4 626			
	4.5	Height of mast, extended 	h ₄ (mm)				5 676				8 076				5 676			
	4.7	Height of overhead guard (cabin) 	h ₅ (mm)				2 190				2 190				2 190			
	4.8	Seat height 	h ₇ (mm)				1 090				1 090				1 090			
	4.10	Height of load arms	h ₆ (mm)				260 				285 				350 			
	4.19	Overall length 	l ₁ (mm)				2 400				2 472				2 544			
	4.20	Length to face of forks	l ₂ (mm)				1 200				1 272				1 344			
	4.21	Overall width	b ₁ /b ₂ (mm)				1 200				1 270				1 270			
	4.22	Fork dimensions	s/e/l (mm)				35				100				1 200			
	4.23	Fork carriage DIN 15173, Class/type A, B	2A				35				100				1 200			
	4.24	Fork carriage width	b ₃ (mm)				2A				2A				2A			
	4.25	Distance between fork arms, min/max	b ₄ (mm)				700				700				700			
	4.26	Distance between load arms	b ₅ (mm)				240/672				240/672				260/692			
	4.28	Reach distance	l ₃ (mm)				900				900				900			
	4.31	Ground clearance, with load under mast 	m ₁ (mm)				635				563				491			
	4.32	Ground clearance, centre of wheelbase 	m ₂ (mm)				75				75				75			
	4.33	Aisle width for pallets 1000mm x 1200mm wide	Ast (mm)				75				75				75			
		Aisle width for pallets 1000mm x 1200mm long	Ast (mm)				2 692				2 742				2 794			
	4.34	Aisle width for pallets 800mm x 1200mm wide	Ast (mm)				2 777				2 837				2 899			
		Aisle width for pallets 800mm x 1200mm long	Ast (mm)				2 575				2 613				2 656			
	4.35	Turning radius	Wa (mm)				2 725				2 789				2 854			
	4.37	Length across load arms	l ₄ (mm)				1 688				1 702				1 736			
PERFORMANCE	5.1	Travel speed, with/without load  	km/h				13				13				13			
	5.2	Lift speed, with/without load 	m/s				0,36				0,52				0,36			
	5.3	Lowering speed, with/without load 	m/s				0,53				0,51				0,53			
	5.4	Reach speed, with/without load 	m/s				0,15				0,16				0,15			
	5.8	Max. gradeability with/without load 	%				12				18				12			
	5.9	Acceleration time with/without load  	s				4				6				4			
	5.10	Service brake	Electromagnetic				Electromagnetic				Electromagnetic/Hydraulic				Electromagnetic/Hydraulic			
MOTOR	6.1	Drive motor, S2 60 minute rating	kW				6,4				6,4				6,4			
	6.2	Lift motor, S3 25 % rating	kW				14				14				14			
	6.3	Battery according to DIN 43531/35/36 A,B,C, no	43531 C				43531 C				43531 C				43531 C			
	6.4	Battery voltage/capacity at 5 hour rate	V/Ah				48	420	48	560	48	700	48	420	48	560	48	700
	6.5	Battery weight (+/- 5%)	kg				750-1 200				750-1 200				750-1 200			
	6.6	Energy consumption according to VDI cycle	kWh/h				3.62				3.82				3.72			
OTHER	8.1	Drive control	AC - MOSFET				AC - MOSFET				AC - MOSFET				AC - MOSFET			
	8.2	Working pressure for attachments	bar				140				140				160			
	8.3	Oil flow for attachments	l/min				20				20				20			
	8.4	Average noise level at operator's ear according to EN 12053	dB(A)				<70				<70				<70			

2 940		5 095		3 470		3 880		5 235		3 740		3 920		2.1
1 890	1 050	2 690	2 405	2 400	1 070	2 450	1 430	2 780	2 455	2 450	1 290	2 480	1 440	2.3
630	3 910	790	5 905	800	4 670	910	4 970	915	6 320	910	4 830	720	5 700	2.4
1 600	2 940	2 105	4 590	2 080	3 390	2 120	3 760	2 295	4 940	2 120	3 620	2 160	4 260	2.5

2			4			2			4			2			4			2			4			2			4			4.1		
2 125			4 715			2 125			2 875			4 715			2 125			2 125			2 125			4.2								
1 555			4 156			1 555			2 305			4 156			1 555			1 555			1 555			4.3								
4 626			11 428			4 626			6 776			12 152			4 526			4 526			4 526			4.4								
5 676			12 428			5 676			7 826			13 152			5 576			5 576			5 576			4.5								
2 150			2 195			2 190			2 190			2 195			2 190			2 190			2 190			4.7								
1 090			1 090			1 090			1 090			1 090			1 090			1 090			1 090			4.8								
285 ■			350 ■			350 ■			350 ■			350 ■			350 ■			350 ■			350 ■			4.10								
2 470		2 560		2 643		2 477		2 549		2 621		2 549		2 621		2 648		2 720		2 549		2 621		2 554		2 626		4.19				
1 270		1 360		1443		1 277		1 349		1 421		1 349		1 421		1448		1520		1 349		1 421		1 354		1 426		4.20				
1 130 △			1270			1 270			1 270			1270			1 470			1 270			1 330			4.21								
35	120	1 200	35	120	1 200	40	120	1200	40	120	1 200	40	120	1 200	40	120	1200	45	120	1 200	4.22											
2A			2A			2A			2A			2A			2A			2A			4.23											
700			700			700			700			700			700			700			4.24											
260/692			260/692			260/692			260/692			260/692			260/692			260/692			4.25											
760			900			900			900			900			1 100			900			4.26											
580	490	-	-	-	577	723	651	579	-	651	579	-	572	500	-	681	609	-	746	674	4.28											
75			70			75			75			70			75			75			4.31											
75			75			75			75			75			75			75			4.32											
2 735		2 801		2 876		2 776		2 824		2 875		2 824		2 875		2880		2934		2 839		2 888		2 858		2 904		4.33				
2 831		2 908		2 977		2 855		2 914		2 975		2 914		2 975		2981		3044		2 914		2 985		2 932		2 991		4.34				
2 607		2 661		2 743		2 667		2 701		2 742		2 701		2 742		2746		2791		2 721		2 759		2 753		2 786		4.34				
2 782		2 863		2 930		2 801		2 864		2 928		2 864		2 928		2935		3000		2 872		2 936		2 877		2 940		4.35				
1 683			1 797			1 797			1 797			1797			1 832			1 893			4.36											
1 830			1 980			1 980			1 980			1980			2 010			2 080			4.37											

6,4				6,4				6,4				6,4				6,4				6,4				6,1				MOTOR							
14				14				14				14				14				14				6,2											
43531 B				C				43531 C				43531 C				C				43531 C				43531 C					6,3						
48	420	48	560	48	700	48	840	48	560	48	700	48	840	48	700	48	840	48	700	48	840	48	700	48	840	48	700		48	840	48	700	48	840	6,4
730-1 000				1 119				940-1 390				1 120-1 390				1 119 -1 306				1 120-1 390				1 120-1 390					6,5						
3.69				5.13				4.10				4.50								4.44				6.32				6,6							

[illegible]

Mast and Capacity Information

Values shown are for standard equipment. When using non-standard equipment these values may change. Please contact your Hyster dealer for information.

3-Stage full free lift

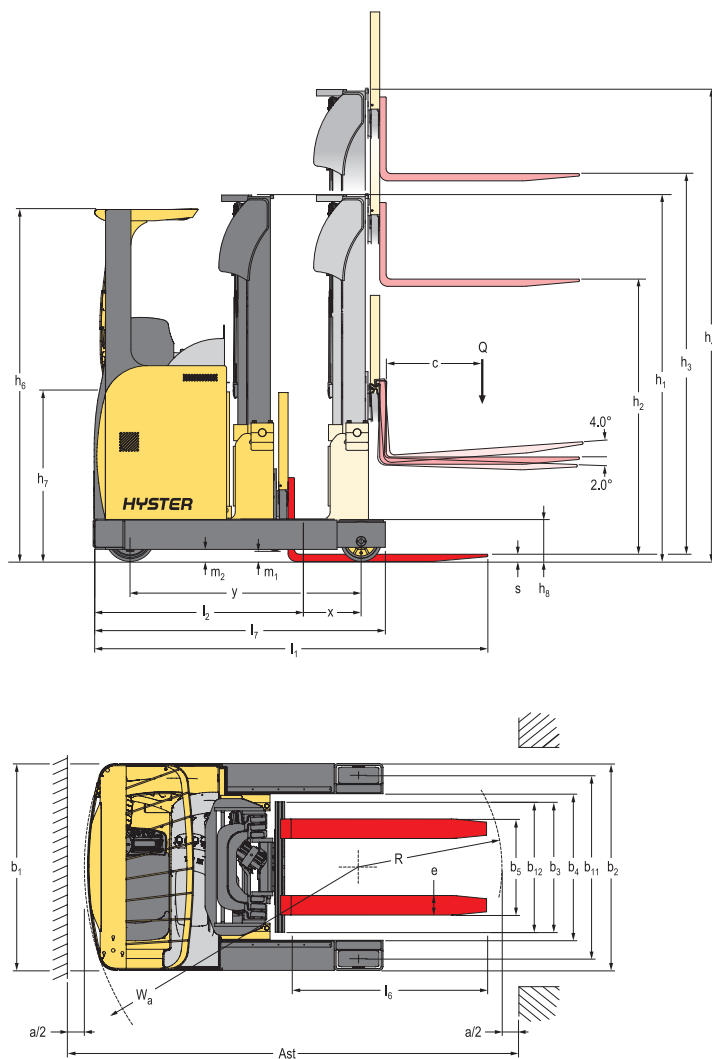
Model	Lift mm (h ₃)	Free lift mm (h ₂)	Height of mast lowered mm (h ₁)	Height of mast extended mm (h ₄) ▲
R1.4, R1.6, R1.6N	4 626	1 555	2 125	5 676
	5 076	1 705	2 275	6 126
	5 526	1 855	2 245	6 576
	6 426	2 155	2 725	7 476
	6 876	2 305	2 875	7 926
R1.4H, R1.6N, R1.6H	7 026	2 455	3 025	8 076
	7 476	2 605	3 175	8 526
	8 076	2 805	3 375	9 126
	8 526	2 955	3 525	9 576
R1.4H, R1.6N	8 726	3 155	3 725	9 776
R1.6H	9 026	3 255	3 825	10 076
	9 176	3 305	3 875	10 226
	9 476	3 405	3 975	10 526

3-Stage full free lift

Model	Lift mm (h ₃)	Free lift mm (h ₂)	Height of mast lowered mm (h ₁)	Height of mast extended mm (h ₄) ▲
R2.0	4 626	1 555	2 125	5 676
	5 076	1 705	2 275	6 126
	5 526	1 855	2 245	6 576
	6 426	2 155	2 725	7 476
R2.0H	R2.0W, R2.5	4 526	1 555	5 576
		4 976	1 705	6 026
		5 426	1 855	6 476
		6 326	2 155	7 376
		6 776	2 305	7 826
		7 026	2 455	8 076
		7 476	2 605	8 526
		8 076	2 805	9 126
R2.0H, R2.0W, R2.5		8 526	2 955	9 576
		9 026	3 255	10 076
		9 476	3 405	10 526
		10 076	3 705	11 126
		10 526	3 855	11 576
		11 426	4 155	12 476
R1.6HD (Batt 700 AH) R2.0HD (batt. 700/840Ah)		7 502	2 606	8 502
		8 102	2 806	9 102
		8 552	2 956	9 552
		9 028	3 256	10 028
		9 478	3 406	10 478
		10 078	3 706	11 078
		10 528	3 856	11 528
		10 978	4 006	11 978
		11 428	4 156	12 428
		9 452	3 256	10 452
		9 902	3 406	10 902
		10 378	3 706	11 378
		10 828	3 856	11 828
		11 278	4 006	12 278
R2.0HD (batt. 840Ah)		10 802	3 706	11 802
		11 252	3 856	12 252
		11 702	4 006	12 702
		11 728	4 156	12 728
		12 152	4 156	13 152

The rated capacities shown are for masts in a vertical position on trucks equipped with standard or sideshift carriage and nominal length forks. Masts above the maximum fork heights shown in the mast table are classified as high lift and, depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

Truck Dimensions



$$A_{st} = W_a + R + a \text{ (see lines 4.33 and 4.34)}$$

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

$a = 200 \text{ mm}$

NOTE:

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. If these specifications are critical, the proposed application should be discussed with your dealer.

- Values refer to a truck equipped with the lowest mast and minimum battery available. For HD versions, values refer to a truck equipped with the highest mast and maximum battery
- ▲ Value determined with load backrest
- ▼ With top protection +10mm
- With top protection +20mm (+13mm for HD versions)
- With beacon h6 + 120mm (+130mm for HD versions)
- Seat stroke +/-30mm, intermediate step 380mm, floor plate 560mm
- ◆ Value determined with reach retracted
- △ With overhead guard width 1100mm
- ❖ Value determined without stabilizer tabs
- ☆ Acceleration - 3 preset values available selected by the operator - soft, medium, hard
- Values may vary with alternative lift heights
- † Values determined by wheel friction - if climbing ramps frequently (several times an hour), consult your dealer

Notice

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. It is important that mast tilt in either direction be kept to a minimum when loads are elevated. Operators must be trained and adhere to the instructions contained in the Operating Manual.

Hyster products are subject to change without notice.
Lift trucks illustrated may feature optional equipment.



Safety.
This truck conforms to the current EU requirements.

Product Features

Dependability

- Durable, strong frame and mast construction allows smooth, stable operation when handling heavy loads.
- The mast construction incorporates a tilting fork carriage with integral side shift. This provides excellent residual capacity at heights up to 12 m.
- CANbus technology reduces wiring complexity for increased reliability.
- Front and side load wheel protection is standard, to prevent damage to the truck during operation.

Productivity

- Four different levels of performance setting allow the truck to be configured to suit driver and application requirements.
- Comprehensive mast selection allows truck to be configured to the needs of the application.
- AC technology delivers powerful acceleration and braking torque. This leads to smoother and faster load handling.
- All models have an integral side-shift and a tilting fork carriage to facilitate loading and unloading.
- AC technology allows seamless changes in direction of travel, increasing cycle speeds and the control of pallet handling operations.
- The automatic speed reduction on cornering feature provides smooth load handling and precise direction control.
- The 4-way joystick allows operator to lift / lower and extend / retract simultaneously.
- The compact chassis ("N" model) is designed to specifically match the requirements of "Drive-in" applications, for excellent manoeuvrability.
- High travel speed, laden and unladen, helps to deliver faster cycle times, especially over long distances.

Ergonomics

- Electronic fly-by-wire steering ensures quick and effortless steering.
- The operator enjoys easy access to the driver compartment, with a large intermediate step and conveniently positioned grab handle.
- Spacious driver compartment, with a fully adjustable seat, allows generous leg and head room for the driver.
- When switching the truck on, the drive wheel is moved to centre position.
- Premium seat option delivers even greater driver comfort:
 - Very low profile mechanical suspension with built in shock absorber and easy suspension adjustment (45-170 kg) help to minimise the effects of whole-body vibration
 - Additional lumbar support and the fully adjustable backrest angle (with a setting range from -5° to +30°) ensure optimum driver comfort throughout the shift
- Palm Tech joystick allows the operator to access all controls with minimum hand movement.
- Mast design with offset free lift cylinder and high-visibility fork carriage provides outstanding visibility for the operator while loading & unloading.

Low cost of ownership

- Powerful AC traction motor provides superior performance and increased loads moves per hour.
- Regenerative braking dissipates the generated heat in the motor increasing the braking effect and reducing maintenance cost.
- Progressive speed control promotes efficient energy consumption.
- Trucks are rated to IP54 standard, for protection against dust and water ingress.

Serviceability

- On board diagnostic display for early warning of maintenance requirements.
- AC technology minimises the dependence on mechanical parts. This leads to a reduction in service costs over the lifetime of the truck.
- Hourmeter and battery discharge indicator with lift interrupt as standard.
- CANbus technology facilitates fault detection.
- Service areas are easily accessed through the swing open cabin.

Options

A comprehensive selection of options is available including:

- Cold store protection
- PVC seat
- Height indicator
- Height pre-selector
- Foot direction control
- 360 degree steering
- Side battery removal
- Load wheel brakes (R1.6, R1.6H)
- 5th hydraulic function
- Load weight indicator
- Flashing light
- Work lights
- Fork lowering cut-out



Strong Partners, Tough Trucks, for Demanding Operations, Everywhere.

Hyster supplies a complete range of warehouse equipment, IC and electric counterbalanced trucks, container handlers and ReachStackers.

Hyster is committed to being much more than a lift truck supplier. Our aim is to offer a complete partnership capable of responding to the full spectrum of material handling issues:

Whether you need professional consultancy on your fleet management, fully qualified service support, or reliable parts supply, you can depend on Hyster.

Our network of highly trained dealers provides expert, responsive local support. They can offer cost-effective finance packages and introduce effectively managed maintenance programmes to ensure that you get the best possible value. Our business is dealing with your material handling needs so you can focus on the success of your business today and in the future.



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