H1.50XM, H1.75XM, H2.00XMS

CHARACTERISTICS	1.1	Manufacturer		HYSTER				HYSTER				HYSTER				HYSTER	
	1.2	Model designation		H1.50XM				H1.50XM				H1.75XM				H1.75XM	
	1.3	Power: battery, diesel, LPG, electric mains		Diesel				LPG				Diesel				LPG	
	1.4	Operation: manual, pedestrian, stand, sit, seat, man-up		Seat				Seat				Seat				Seat	
	1.5	Load capacity	Q (kg)	1 500				1 500				1 750				1 750	
	1.6	Load centre	c (mm)	500				500				500				500	
	1.8	Load distance	x (mm)	380				380				380				380	
	1.9	Wheelbase	y (mm)	1 340				1 340				1 340				1 340	
WEIGHT	2.1	Unladen weight	kg	2 720				2 605				2 895				2 780	
	2.2	Axle loading with load, front/rear	kg	3 570	650			3 630	475			3 920	725			4 000	530
	2.3	Axle loading without load, front/rear	kg	1 190	1 530			1 145	1 460			1 140	1 755			1 100	1 680
WHEELS & TYRES	3.1	Tyres: L = pneumatic, V = solid, SE = pneumatic-shaped solid		SE				SE				SE				SE	
	3.2	Tyre size, front		6,50 - 10				6,50 - 10				6,50 - 10				6,50 - 10	
	3.3	Tyre size, rear		5,00 - 8				5,00 - 8				5,00 - 8				5,00 - 8	
	3.5	Number of wheels, front/rear (X = driven)		2X	2			2X	2			2X	2			2X	2
	3.6	Track width, front	b_{10} (mm)	885	1 060			885	1 060			885	1 060			885	1 060
	3.7	Track width, rear	b_{11} (mm)	895				895				895				895	
DIMENSIONS	4.1	Mast tilt, α = forward/β = back	degrees	6	5			6	5			6	5			6	5
	4.2	Height of mast, lowered	h_1 (mm)	2 175				2 175				2 175				2 175	
	4.3	Free lift ¶	h_2 (mm)	100				100				100				100	
	4.4	Lift height ¶	h_3 (mm)	3 290				3 290				3 290				3 290	
	4.5	Height of mast, extended	h_4 (mm)	3 905				3 905				3 905				3 905	
	4.7	Overhead guard height	h_6 (mm)	2 138				2 138				2 138				2 138	
	4.8	Seat height	h_7 (mm)	1 072				1 072				1 072				1 072	
	4.12	Towing coupling height	h_{10} (mm)	290				290				290				290	
	4.19	Overall length	l_1 (mm)	3 155				3 155				3 190				3 190	
	4.20	Length to face of forks	l_2 (mm)	2 155				2 155				2 190				2 190	
	4.21	Overall width	b_1/b_2 (mm)	1 065	1 240			1 065	1 240			1 065	1 240			1 065	1 240
	4.22	Fork dimensions	s/e/l (mm)	40	80	1 000		40	80	1 000		40	80	1 000		40	80	1 000
	4.23	Fork carriage DIN 15173 A/B		2A				2A				2A				2A	
	4.24	Fork carriage width ●	b_3 (mm)	980				980				980				980	
	4.31	Ground clearance at lowest point, with load	m_1 (mm)	110				110				110				110	
	4.32	Ground clearance, centre of wheelbase	m_2 (mm)	146				146				146				146	
	4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide ◆	Ast (mm)	3 465				3 465				3 500				3 500	
	4.34	Aisle width with pallets 800 mm x 1 200 mm long ◆	Ast (mm)	3 265				3 265				3 300				3 300	
	4.35	Outer turning radius	W_a (mm)	1 885				1 885				1 920				1 920	
	4.36	Inner turning radius	b_{13} (mm)	-				-				-				-	
PERFORMANCE	5.1	Travel speed with/without load	km/h	20,1	20,1			19,6	19,6			20,1	20,1			19,6	19,6
	5.2	Lifting speed with/without load	m/sec	0,63	0,65			0,52	0,54			0,63	0,65			0,52	0,54
	5.3	Lowering speed with/without load	m/sec	0,51	0,47			0,51	0,47			0,51	0,47			0,51	0,47
	5.5	Drawbar pull with/without load, 60 minute rating	N	11 800	8 200			11 400	8 200			11 800	7 900			11 400	7 900
	5.6	Max. drawbar pull with/without load, 5 minute rating	N	13 000	8 200			12 600	8 200			13 000	7 900			12 600	7 900
	5.7	Gradeability with/without load, 30 minute rating †	%	30,0	23,0			29,0	23,0			27,0	20,5			26,0	20,5
	5.8	Max. gradeability with/without load, 5 minute rating †	%	33,5	23,0			33,0	23,0			30,5	20,5			30,0	20,5
	5.9	Acceleration time with/without load	Sec	-	-			-	-			-	-			-	-
	5.10	Service brake		Hydraulic				Hydraulic				Hydraulic				Hydraulic	
ENGINE	7.1	Engine manufacturer/type		Mazda M4-2.5D				Mazda M4-2.0G				Mazda M4-2.5D				Mazda M4-2.0G	
	7.2	Engine output	kW	30,2				29,4				30,2				29,4	
	7.3	Governed speed	rpm	2 050				2 400				2 050				2 400	
	7.4	Number of cylinders/displacement	cm^3	4	2 522			4	1 998			4	2 522			4	1 998
	7.5	Fuel consumption in accordance with VDI cycle	l/h	-				-				-				-	
OTHER	8.1	Drive control		Torque converter				Torque converter				Torque converter				Torque converter	
	8.2	Working pressure for attachments	bar	157				157				157				157	
	8.3	Oil flow for attchments	l/min	65				57				65				57	
	8.4	Average noise level at operator's ear	dB (A)	77				77				77				77	
	8.5	Towing coupling type		Pin				Pin				Pin				Pin	

Equipment and weight:

Weights (line 2.1) are based on the following specifications:

Complete truck with Mazda M4-2.5D diesel engine, Powershift transmission, 3 330 mm Vista 2-stage limited free lift mast, 980 mm hook type carriage with load backrest and 1 000 mm forks. Overhead guard and pneumatic shaped solid tyres.

HYSTER	HYSTER	1.1	CHARACTERISTICS
H2.00XMS	H2.00XMS	1.2	
Diesel	LPG	1.3	
Seat	Seat	1.4	
2 000	2 000	1.5	
500	500	1.6	
380	380	1.8	
1 340	1 340	1.9	

					WEIGHT
3 075		2 960		2.1	
4 405	670	4 370	590	2.2	
1 095	1 980	1 055	1 905	2.3	

					WHEELS & TYRES
SE		SE		3.1	
6,50 - 10		6,50 - 10		3.2	
18 x 7 - 8		18 x 7 - 8		3.3	
2X	2	2X	2	3.5	
885	1 060	885	1 060	3.6	
895		895		3.7	

							DIMENSIONS
6	5		6	5		4.1	
2 175			2 175			4.2	
100			100			4.3	
3 290			3 290			4.4	
3 905			3 905			4.5	
2 138			2 138			4.7	
1 072			1 072			4.8	
290			290			4.12	
3 425			3 425			4.19	
2 225			2 225			4.20	
1 065	1 110		1 065	1 110		4.21	
40	100	1 000	40	100	1 000	4.22	
2A			2A			4.23	
980			980			4.24	
110			110			4.31	
146			146			4.32	
3 535			3 535			4.33	
3 335			3 335			4.34	
1 955			1 955			4.35	
-			-			4.36	

					PERFORMANCE
20,1	20,1	19,6	19,6	5.1	
0,63	0,65	0,52	0,54	5.2	
0,51	0,47	0,51	0,47	5.3	
11 800	7 600	11 400	7 600	5.5	
13 000	7 600	12 600	7 600	5.6	
24,5	18,5	23,5	18,5	5.7	
27,5	18,5	27,5	18,5	5.8	
-	-	-	-	5.9	
Hydraulic		Hydraulic		5.10	

					ENGINE
Mazda M4-2.5D		Mazda M4-2.0G		7.1	
30,2		29,4		7.2	
2 050		2 400		7.3	
4	2 522	4	1 998	7.4	
-		-		7.5	

Torque converter	Torque converter	8.1	OTHER
157	157	8.2	
65	57	8.3	
77	77	8.4	
Pin	Pin	8.5	

Fuel tank capacity:

LPG: ☎

Diesel: 30 litres

Forks:

H1.50-1.75XM: 80 x 40 x 1 000 to 1 800 mm long

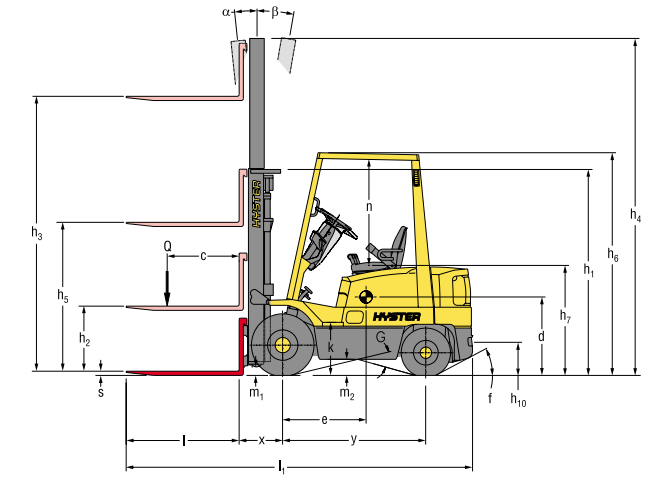
H2.00XMS: 100 x 40 x 1 200 to 2 400 mm long

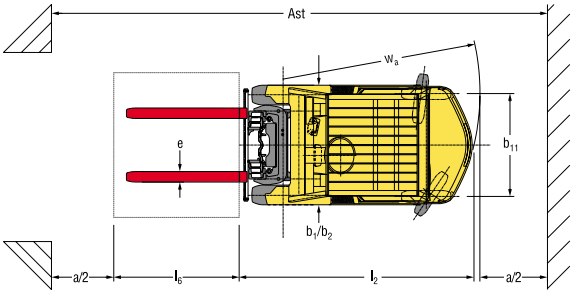
Fork spacing:

Inside to inside, minimum: 30 mm

Outside to outside, maximum: 955 mm

Truck dimensions





= Centre of gravity of unladen truck

Ast = W_a + x + l_6 + a (see line 4.33)

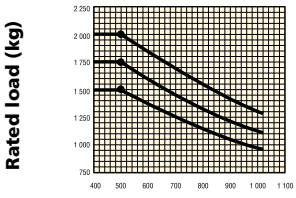
a = Minimum operating clearance

(V.D.I standard = 200 mm BITA recommendation = 300 mm)

l_6 = Load length

Model		H1.50XM	H1.75XM	H2.00XMS
Load moment cm-kg		132 000	154 000	176 000
Dimensions (mm)	d	620	615	610
	e	715	770	825
	f	22°	23°	25°
	g	24°	24°	24°
	k	495	495	495
	n	1 000	1 000	1 000

Rated capacities



Load centre

Distance from front of forks to centre of gravity of load.

Rated load

Based on vertical masts up to 4 050 mm (H1.50XM-1.75XM) or 3 830 mm (H2.00XMS).

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.

- ● Add 30 mm with load backrest extension
- ¶ Bottom of forks
- ◆ Stacking aisle width (lines 4.33 & 4.34) are based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
- † Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.

Mast tables:

- ◗ Lowered height lower than overhead guard height
- ★ Add 615 mm with load backrest extension
- ❍ Deduct 635 mm with load backrest extension
- ⊡ Intermediate tread required
- ◖ Wide tread required
- ☎ 19,5 kg capacity tank with integral fuel gauge available on request. Consult your Hyster lift truck dealer.

CE Safety:
This truck conforms to the current EU requirements.

Vista masts H1.50-2.00XMS

	Maximum fork height mm	Back tilt	Overall lowered height mm	Overall extended height mm	Free lift (top of forks) mm
Vista 2-Stg limited free lift	3 030	5°	2 025 ◗	3 605 ★	140
	3 330	5°	2 175	3 905 ★	140
	3 830	5°	2 425	4 405 ★	140
	4 030	5°	2 625	4 605 ★	140
	4 330	5°	2 775	4 905 ★	140
Vista 2-Stg full free lift	3 090	5°	2 025 ◗	3 660 ★	1 450 ❍
	3 290	5°	2 125	3 860 ★	1 550 ❍
	3 890	5°	2 425	4 460 ★	1 850 ❍
Vista 3-Stg full free lift	4 500	3°	2 025 ◗	5 075 ★	1 450 ❍
	4 800	3°	2 125	5 375 ★	1 550 ❍
	5 550	3°	2 425	6 125 ★	1 850 ❍

H1.50-2.00XMS - Capacity chart in kg @ 500 mm load centre

	Pneumatic shaped solid tyres					
	Maximum fork height mm	Without sideshift			With integral sideshift	
		H1.50XM	H1.75XM	H2.00XMS	H1.50XM	H1.75XM	H2.00XMS
Vista 2-Stg limited free lift	3 030	1 500	1 750	2 000	1 500	1 750	1 980
	3 330	1 500	1 750	2 000	1 500	1 750	1 970
	3 830	1 500	1 750	2 000	1 490	1 740	1 960
	4 030	1 500	1 750	1 960	1 490	1 730	1 920
	4 330	1 500	1 690	1 900	1 490	1 670	1 860
Vista 2-Stg full free lift	3 090	1 500	1 750	2 000	1 500	1 740	1 960
	3 290	1 500	1 750	2 000	1 490	1 730	1 960
	3 890	1 500	1 750	1 980	1 480	1 720	1 930
Vista 3-Stg full free lift	4 500	1 420	1 660	1 850	1 390	1 630	1 790
	4 800	1 360	1 600	1 780	1 330	1 560	1 730
	5 550	1 200	1 420 ◖	1 370 ⊡	1 160	1 380 ◖	1 400 ⊡

H1.50-2.00XMS - Capacity chart in kg @ 600 mm load centre

	Pneumatic shaped solid tyres					
	Maximum fork height mm	Without sideshift			With integral sideshift	
		H1.50XM	H1.75XM	H2.00XMS	H1.50XM	H1.75XM	H2.00XMS
Vista 2-Stg limited free lift	3 030	1 440	1 670	1 880	1 360	1 580	1 780
	3 330	1 440	1 670	1 880	1 360	1 580	1 780
	3 830	1 430	1 660	1 870	1 350	1 570	1 770
	4 030	1 430	1 660	1 830	1 350	1 560	1 740
	4 330	1 420	1 600	1 770	1 340	1 510	1 680
Vista 2-Stg full free lift	3 090	1 430	1 660	1 870	1 350	1 570	1 770
	3 290	1 430	1 650	1 870	1 350	1 570	1 770
	3 890	1 420	1 640	1 850	1 340	1 560	1 750
Vista 3-Stg full free lift	4 500	1 330	1 550	1 710	1 250	1 470	1 620
	4 800	1 270	1 490	1 650	1 200	1 410	1 560
	5 550	1 110	1 320 ◖	1 370 ⊡	1 040	1 240 ◖	1 380 ⊡

FPO FPO

Highlifts

The rated capacities shown are for trucks equipped with standard or side shift carriage, and nominal length forks (see below). Masts above the maximum fork height shown below are classified as high lift, and depending on the tyre/tread configuration may require reduced capacity, restricted back tilt or wide tread.

Model	Max. fork height mm	Nominal fork length mm
H1.50XM	4 050	1 000
H1.75XM	3 590	1 000
H2.00XMS	3 590	1 000

High lift masts require Hyster's approval based on specific application information. This information should be supplied on Hyster form 857025-25, and will be used to determine rated capacities to be included on a specific nameplate. The completed nameplate must be installed on the truck before it is put in use.

Warning

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 the minimum when loads are elevated. Operators must be trained and adhere to instructions contained in the Operating Manual.

HYSTER

Hyster Europe, Flagship House, Reading Road North, Fleet, Hants GU51 4WD, England
Hyster Europe, Nijverheidsweg 29, 6541 CL Nijmegen, The Netherlands
Hyster Europe, Portland Road, Irvine, Ayrshire KA12 8JG, Scotland
Hyster Europe, Via Confalonieri 2, 20060 Masate (MI), Italy
http://www.hyster.co.uk

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FPO

H1.50-2.00XMS

Diesel and LPG powered forklifts. 1 500 to 2 000 kg @ 500 mm

Cost effective productivity

This series is from the latest generation of Hyster lift trucks; designed and built with productivity in mind. Superior driver comfort, easy access to regular maintenance points and high quality, durable components combine to give low lifetime operating costs.

Smooth efficiency

The tilting steering column and fully adjustable, full suspension seat allow selection of the most comfortable operating position. Flip-up armrests give easy on/off access. The adjustable right armrest reduces fatigue when operating the low-effort hydraulic levers. Fully hydrostatic, power-assisted steering and the optional Monotrol pedal enhance driver productivity. Easy-read dash display indicators highlight maintenance requirements and reduce unforeseen downtime. Isolated operator compartment and elastomeric engine mounts reduce the effects of vibration on the driver. Brakes are self-energising and self-adjusting, with a 254 mm diameter and total lining area of 495 cm^2.

Performance

2.5 litre diesel or 2.0 litre LPG Mazda engines provide excellent tractive performance, with respective peak torques of 142 or 130 Nm @ 1 600 rpm. Both engines use a 12 volt electrical system and benefit from a heavy-duty dry-type air cleaner with a high mounted inlet. The diesel engine truck has a 30 litre capacity fuel tank.

Diesel engine has distributor-type injection pump with mechanical governor and key-start, even at cold temperatures. LPG engine has high energy, electronic ignition and Aisan system with pneumatic governor.

Single speed Powershift transmission, hydrodynamic torque converter with 2.8:1 ratio (diesel), 2.4:1 (LPG). Stator over-run clutch and combined inching/brake pedal.

Hydraulic system features 25 litre tank and gear-type main pump, with priority flow divider to steering. Full time, full flow, 10 micron return line filter.

12,7 litre capacity (10.8 LPG) cooling system, with 88 kPa pressure, 48,5 mm thick radiator core and integral transmission oil cooler.

Easy handling

Full range of 2-stage, limited and full free lift, and 3-stage full free lift Vista masts. Designed for quiet, precise, durable load handling. Good visibility and flush-faced channels reduce chance of load damage in high lift work. For reliability and protection all hoses are routed within the mast construction.