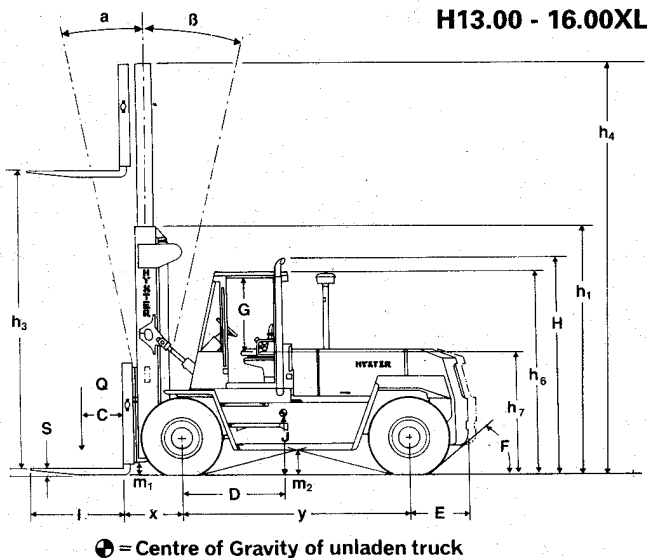
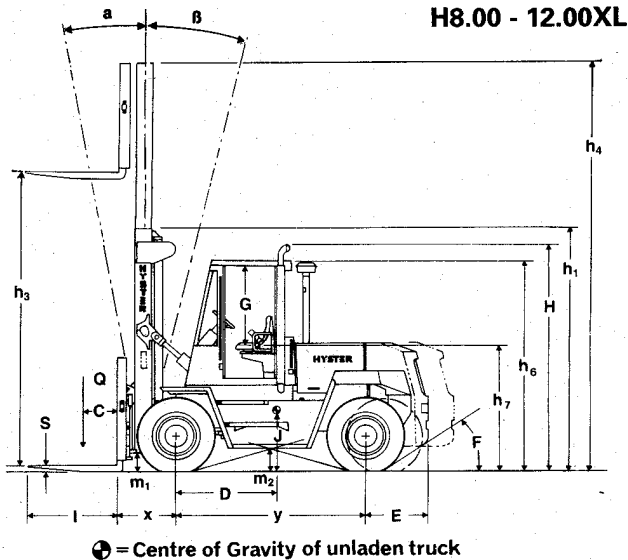


HYSTER CHALLENGER

H8.00-16.00XL



SPECIFICATIONS

ENGINE

Diesel

Make	Perkins	Cycle	4	Displacement (l)	6	Bore (mm)	100
Model	1006-6	Cylinder	6	Fuel Tank Cap. (l)	113	Stroke (mm)	127

Engine characteristics: Distributor type fuel injection pump. Direct injection "Quadram" combustion chamber. 12 Volt electrical system. Dry element type air cleaner. High air intake. Integral centrifugal precleaner. System equipped with a cold start aid in the intake manifold. Electric shut off key.

COOLING SYSTEM: Liquid cooling, 103 kPa pressure system. Puller type fan. Coolant recovery system. High performance tube and fin radiator. Gear driven water pump.

TRANSMISSION: Three speed, fully reversing powershift transmission. Constant mesh countershaft type. Designed to Hyster specifications. Forward/reverse directional lever.

FINAL DRIVE: Rockwell small hub planetary axle. DIN standard centre piloted disc wheels.

BRAKES: S-cam air operated drum brakes.

STEERING: Hydrostatic power assisted steering. Provision for manual control. Equipped with oil pressure relief valve.

HYDRAULIC SYSTEM: Tandem type gear pump. Hydraulic tank 69.3 l (H8.00-12.00XL); 95.1 l (H13.00-16.00XL). In-tank, full flow, return filtration.

TYRES: H8.00-9.00XL 9.00 x 20-12 ply pneumatic
 H10.00-12.00XL 10.00 x 20-14 ply pneumatic
 H13.00XL 11.00 x 20-14 ply pneumatic
 H14.00-16.00XL 12.00 x 20-18 ply pneumatic

INSTRUMENTS: Hour meter, fuel gauge, engine coolant temperature gauge, warning cluster (alternator, engine oil, transmission oil temperature), air-brake pressure monitoring system with light and buzzer, horn.

EQUIPMENT AND WEIGHT

WEIGHT: H8.00XL	12 910 kg	H13.00XL	17 110 kg
H9.00XL	13 700 kg	H14.00XL	18 260 kg
H10.00XL	14 510 kg	H16.00XL	19 150 kg
H12.00XL	16 150 kg		

The above weights are based on the following specifications: Complete H8.00-16.00XL trucks equipped with 5 400 mm, 2-stage vista uprights, 2 350 mm (H8.00-12.00XL) or 2 500 mm (H13.00-16.00XL) pin-type sideshift carriage and 1 220 mm (H8.00-12.00XL) or 1 370 mm (H13.00-16.00XL) pin-type forks, full suspension seat, 3-way valve and hose group, pneumatic tyres, 2 front and 2 rear working lights.

CARRIAGES: Sideshift, pin type

Overall width: H8.00-12.00XL	2 350 mm
H13.00-16.00XL	2 500 mm

FORK SPACING:

Inside to inside: H8.00-12.00XL	70 mm	H13.00-16.00XL	650 mm
Outside to outside: H8.00-12.00XL	2 270 mm	H13.00-16.00XL	2 420 mm

FORKS:

H8.00XL	65 x 200 x 1 220 - 1 825 mm long
	70 x 200 x 2 135 - 2 440 mm long
H9.00XL	65 x 200 x 1 220 - 1 525 mm long
	70 x 200 x 1 825 - 2 440 mm long
H10.00-H12.00XL	70 x 200 x 1 220 - 2 440 mm long
H13.00-H16.00XL	90 x 200 x 1 370 - 2 440 mm long

OPTIONS

Uprights: Heights as specified

Pin-type standard carriage: H8.00-12.00XL	2 350 mm
H13.00-16.00XL	2 500 mm

4/5 function hydraulic control valves

Tilt kit: 20.5° front/7.0° rear or 5.0° front/12.0° rear

Monotrol pedal

Operator module without cab

Lights

2 rear view mirrors

Operator restraint

Fork positioning carriage, with sideshift

Pneumatic shaped solid tyres (H8.00-12.00XL only)

	Load Moment cm-kg	Dimensions in mm					
		D	E	F	G	H	J
H8.00XL	1 107 200	1270	848	69%	1110	3070	1080
H9.00XL	1 245 600	1250	848	69%	1110	3070	1050
H10.00XL	1 414 000	1460	848	74%	1110	3090	1160
H12.00XL	1 696 800	1500	848	74%	1110	3090	1120
H13.00XL	1 944 800	1580	848	87%	1110	3130	1210
H14.00XL	2 094 400	1620	848	95%	1110	3150	1200
H16.00XL	2 393 600	1730	968	74%	1110	3150	1180

HYSTER CHALLENGER

H8.00XL, H9.00XL, H10.00XL, H12.00XL,

CHARACTERISTICS	1	Manufacturer			Hyster	Hyster	Hyster	Hyster								
	2	Model	Manufacturer's Designation		H8.00XL	H9.00XL	H10.00XL	H12.00XL								
	3	Capacity	Q Rated Capacity		8 000	9 000	10 000	12 000								
	4	Load Centre	C Distance		600	600	600	600								
	5	Power Type	Battery, Diesel, LPG, Electric Mains		Diesel	Diesel	Diesel	Diesel								
	6	Control Type	Pedestrian, Stand, Sit		Sit	Sit	Sit	Sit								
	7	Tyre Equipment	V=Solid, L=Pneumatic		L	L	L	L	L	L						
	8	Wheels (X=driven)	Number		4X	2	4X	2	4X	2						
DIMENSIONS	9	Lift	2-stage upright	h ₁ Lift	mm	5 335	5 335	5 330	5 330							
	10			h ₂ Standard Free Lift	mm	0	0	0	0							
	11			h ₃ Optional Free Lift	mm	-	-	-	-							
	12	Carriage	According to DIN 15173 A/B/no (FEM)		NO	NO	NO	NO								
	13	Fork Size	s e l		65	200	1 220	65	200	1 220	70	200	1 220	70	200	1 220
	14	Upright Tilt	a Forward/b Backward		15	12	15	12	15	12	15	12	15	12		
	15	Overall Dimensions	L ₁ Length to face of forks		mm	4 180	4 180	4 560	4 560							
	16		B Total Width		mm	2 440	2 440	2 460	2 460							
	17		h ₁ Height, upright lowered		mm	4 150*	4 150*	4 450*	4 450*							
	18		h ₄ Height, upright extended		mm	6 890	6 890	7 120*	7 120*							
	19		h ₆ Overhead Guard Height		mm	2 875	2 875	2 900	2 900							
	20	h ₇ Seat Height		mm	1 710	1 710	1 730	1 730								
	21	Turning Radius	Wa		mm	3 730	3 730	4 080	4 080							
22	Load Distance	x from centre of front axle		mm	785	785	815	815								
23	Aisle Stacking Width	Ast for load 1220 x 1220		mm	5 930*	5 930*	6 310*	6 310*								
PERFORMANCE	24	Speeds	Travel Speed with/without load		km/h	31,7	32,7	31,5	32,7	32,2	33,8	31,5	33,8			
	25		Lift Speed with/without load		m/s	0,48	0,54	0,48	0,54	0,37	0,42	0,37	0,42			
	26		Lowering Speed with/without load		m/s	0,58	0,50	0,58	0,50	0,58	0,50	0,58	0,50			
	27	Nom. Drawbar Pull	with/without load (at 1.6 km/h)		kN	73,6	73,6	69,7	69,7							
	28	Max. Drawbar Pull	with/without load — electric (5min.)		kN	94,5	94,5	89,8	89,8							
	29	Gradeability	with/without load		%	40	31	36	31	31	32	26	31			
	30	Max. Gradeability	with/without load		%	54	31	48	31	41	32	35	31			
31	Acceleration Time	travelling with/without load		s	-	-	-	-								
WEIGHT	32	Total Unladen Weight	with battery (line 46)		kg	12 910	13 700	14 510	16 150							
	33	Axle Loading	with load		kg	18 840	2 070	20 850	1 850	22 140	2 370	25 690	2 460			
	34		without load		kg	6 500	6 410	6 970	6 730	7 270	7 240	7 840	8 310			
WHEELS AND TYRES	35	Tyres	Number		front/rear	4	2	4	2	4	2	4	2			
	36		Size	front		in	9,00x20-12ply	9,00x20-12ply	10,00x20-14ply	10,00x20-14ply						
	37			rear		in	9,00x20-12ply	9,00x20-12ply	10,00x20-14ply	10,00x20-14ply						
	38	Wheelbase	y		mm	2 550	2 550	2 900	2 900							
	39	Tread	Centre of tyres		front/rear	mm	2 150	1 930	2 150	1 930	2 150	1 930				
	40	Ground Clearance	with load		m ₁ at lowest point	mm	258	258	251	251						
	41		m ₂ centre of wheelbase		mm	295	295	313	325							
42	Service Brake	Mechanical/Hydraulic/Electric/Air			Air	Air	Air	Air								
43	Parking Brake	Operation/Max Grade Laden %			Hand	15	Hand	15	Hand	15	Hand	15				
POWER UNIT AND TRANSMISSION	44	Battery	Type (see Hyster Battery Chart for Dimensions)			-	-	-	-							
	45		Voltage/Capacity at 20 hr rate		V/Ah	12	100	12	100	12	100	12	100			
	46		Weight		kg	-	-	-	-							
	47	Electric Motors	Drive Motor, 60 min rating		kW	-	-	-	-							
	48		Hoist Motor, 15 min rating		kW	-	-	-	-							
	49	Internal Combustion Engine	Make/Model			Perkins	1006-6	Perkins	1006-6	Perkins	1006-6	Perkins	1006-6			
	50		Output B according to SAE J1349		kW	94,7	94,7	94,7	94,7							
	51		Speed according to SAE J1349		rpm	2 600	2 600	2 600	2 600							
	52		Number of Cylinders/Displacement		cm ³	6	5 985	6	5 985	6	5 985	6	5 985			
	53	Fuel Consumption		l/h	-	-	-	-								
54	Gear Change	Electric Driven		type/speeds	-	-	-	-								
55	Transmission	Engine Driven		type/speeds	Powershift	3	Powershift	3	Powershift	3	Powershift	3				
56	Clutch	Engine Driven		type	Torque Conv.	Torque Conv.	Torque Conv.	Torque Conv.								
57	Working Pressure	for Attachments		bar	153	153	153	153								
58	Noise Level	L eq at Driver's Ear to BITA RP20 (with cab)		dB(A)	80	80	80	80								

* With standard length forks

* Add 30 mm if hosegroup is fitted

I.C.(E)

HYSTER CHALLENGER

H13.00XL, H14.00XL, H16.00XL

CHARACTERISTICS	1	Manufacturer		
	2	Model	Manufacturer's Designation	
	3	Capacity	Q Rated Capacity	kg
	4	Load Centre	C Distance	mm
	5	Power Type	Battery, Diesel, LPG, Electric Mains	
	6	Control Type	Pedestrian, Stand, Sit	
	7	Tyre Equipment	V=Solid, L=Pneumatic	front/rear
	8	Wheels (X=driven)	Number	front/rear

Hyster		Hyster		Hyster	
H13.00XL		H14.00XL		H16.00XL	
13 000		14 000		16 000	
600		600		600	
Diesel		Diesel		Diesel	
Sit		Sit		Sit	
L	L	L	L	L	L
4X	2	4X	2	4X	2

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DIMENSIONS	9	Lift	2-stage upright	h ₁ Lift	mm
	10			h ₂ Standard Free Lift	mm
	11			h ₃ Optional Free Lift	mm
	12	Carriage	According to DIN 15173 A/B/no (FEM)		
	13	Fork Size	s e l	mm	
	14	Upright Tilt	a Forward/b Backward	°	
	15	Overall Dimensions	L ₁ Length to face of forks	mm	
	16		B Total Width	mm	
	17		h ₁ Height, upright lowered	mm	
	18		h ₄ Height, upright extended	mm	
	19		h ₆ Overhead Guard Height	mm	
	20	h ₇ Seat Height	mm		
	21	Turning Radius	Wa	mm	
22	Load Distance	x from centre of front axle	mm		
23	Aisle Stacking Width	Ast for load 1220 x 1220	mm		

5 310		5 310		5 310	
0		0		0	
-		-		-	
NO		NO		NO	
90	200	1 370	90	200	1 370
15	12	15	12	15	12
5 050		5 050		5 170	
2 600		2 620		2 620	
4 440*		4 460*		4 460*	
7 100*		7 120*		7 120*	
2 940		2 960		2 960	
1 770		1 790		1 790	
4 580		4 580		4 690	
900		900		900	
7 050*		7 050*		7 160*	

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PERFORMANCE	24	Speeds	Travel Speed with/without load	km/h
	25		Lift Speed with/without load	m/s
	26		Lowering Speed with/without load	m/s
	27	Nom. Drawbar Pull	with/without load (at 1.6 km/h)	kN
	28	Max. Drawbar Pull	with/without load — electric (5min.)	kN
	29	Gradeability	with/without load	%
	30	Max. Gradeability	with/without load	%
31	Acceleration Time	travelling with/without load	s	

27,2	29,3	27,7	30,2	27,4	30,2
0,29	0,33	0,29	0,33	0,29	0,33
0,50	0,44	0,50	0,44	0,50	0,44
79,8		76,5		76,5	
106,5		101,0		101,0	
28	34	25	33	23	31
38	34	34	33	31	31
-		-		-	

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WEIGHT	32	Total Unladen Weight	with battery (line 46)	kg	
	33	Axle Loading	with load	front/rear	kg
	34		without load	front/rear	kg

17 110		18 260		19 150	
27 790	2 320	29 640	2 620	32 350	2 800
8 890	8 220	9 290	8 970	9 100	10 050

32
33
34

WHEELS AND TYRES	35	Tyres	Number		front/rear
	36		Size	front	in
	37			rear	in
	38	Wheelbase	y	mm	
	39	Tread	Centre of tyres	front/rear	mm
	40	Ground Clearance	with load	m ₁ at lowest point	mm
	41		m ₂ centre of wheelbase	mm	
	42	Service Brake	Mechanical/Hydraulic/Electric/Air		
43	Parking Brake	Operation/Max Grade Laden %			

4	2	4	2	4	2
11,00x20-14ply		12,00x20-18ply		12,00x20-18ply	
11,00x20-14ply		12,00x20-18ply		12,00x20-18ply	
3 300		3 300		3 300	
2 280	2 000	2 280	2 000	2 280	2 000
206		227		227	
325		346		346	
Air		Air		Air	
Hand	15	Hand	15	Hand	15

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POWER UNIT AND TRANSMISSION	44	Battery	Type (see Hyster Battery Chart for Dimensions)	
	45		Voltage/Capacity at 20 hr rate	V/Ah
	46		Weight	kg
	47	Electric Motors	Drive Motor, 60 min rating	kW
	48		Hoist Motor, 15 min rating	kW
	49	Internal Combustion Engine	Make/Model	
	50		Output B according to SAE J1349	kW
	51		Speed according to SAE J1349	rpm
	52		Number of Cylinders/Displacement	cm³
	53		Fuel Consumption	l/h
	54	Gear Change	Electric Driven	type/speeds
	55	Transmission	Engine Driven	type/speeds
56	Clutch	Engine Driven	type	

-		-		-	
12	100	12	100	12	100
-		-		-	
-		-		-	
-		-		-	
Perkins	1006-6	Perkins	1006-6	Perkins	1006-6
94,7		94,7		94,7	
2 600		2 600		2 600	
6	5 985	6	5 985	6	5 985
-		-		-	
-		-		-	
Powershift 3		Powershift 3		Powershift 3	
Torque Conv.		Torque Conv.		Torque Conv.	

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57	Working Pressure	for Attachments	bar
58	Noise Level	L eq at Driver's Ear to BITA RP20 (with cab)	dB(A)

153		153		153	
80		80		80	

57
58

* With standard length forks * Add 30 mm if hosegroup is fitted I.C.(E)

UPRIGHTS H8.00 - 9.00XL

	Maximum fork height (top of forks) mm	Overall lowered height mm ***	Overall extended height mm *	Rated Capacity Kg @ 600 mm Load Centre			
				without sideshift		with sideshift	
				H8.00XL	H9.00XL	H8.00XL	H9.00XL
VISTA 2-STAGE	3 750	3 330	5 240	8 600	9 500	8 000	9 000
	4 650	3 780	6 140	8 600	9 500	8 000	9 000
	5 400	4 150	6 890	8 600	9 500	8 000	9 000

UPRIGHTS H10.00 - 12.00XL

	Maximum fork height (top of forks) mm	Overall lowered height mm **	Overall extended height mm **	Rated Capacity Kg @ 600 mm Load Centre			
				without sideshift		with sideshift	
				H10.00XL	H12.00XL	H10.00XL	H12.00XL
VISTA 2-STAGE	3 750	3 620	5 470	10 450	12 700	10 000	12 000
	4 650	4 070	6 370	10 450	12 700	10 000	12 000
	5 400	4 450	7 120	10 450	12 700	10 000	12 000
	6 200	4 850	7 920	10 450	12 700	10 000	12 000
	6 700	5 100	8 420	•	•	•	•

UPRIGHTS H13.00 - 16.00XL

	Maximum fork height (top of forks) mm	Overall lowered height mm ** □	Overall extended height mm ** □	Rated Capacity Kg @ 600 mm Load Centre					
				without sideshift			with sideshift		
				H13.00XL	H14.00XL	H16.00XL	H13.00XL	H14.00XL	H16.00XL
VISTA 2-STAGE	3 750	3 640	5 470	13 600	15 000	16 400	13 000	14 000	16 000
	4 650	4 090	6 370	13 600	15 000	16 400	13 000	14 000	16 000
	5 400	4 460	7 120	13 600	15 000	16 400	13 000	14 000	16 000
	6 200	4 860	7 920	13 600	15 000	16 400	13 000	14 000	16 000
	6 700	5 110	8 420	13 450	14 800	16 200	12 700	14 000	15 800

- Consult your dealer
- * Add 20 mm if optional 10.00 x 20 tyres are fitted
- Deduct 20 mm for H13.00XL model
- ** Add 30 mm if header hosegroup installed

HIGH LIFTS

The rated capacities shown above are for trucks equipped with standard or sideshift carriage, and nominal length forks (see right). Uprights above the maximum fork height shown here are classified as high lift, and may require reduced capacity, restricted back tilt or wide tread.

MODEL	MAX. FORK HEIGHT	NOM. FORK LENGTH
H8.00XL	5 400 mm	1 220 mm
H9.00XL	5 400 mm	1 220 mm
H10.00XL	6 200 mm	1 220 mm
H12.00XL	6 200 mm	1 220 mm
H13.00XL	6 200 mm	1 370 mm
H14.00XL	6 200 mm	1 370 mm
H16.00XL	6 200 mm	1 370 mm

High lift uprights require Hyster approval based on specific application information. This information should be supplied on Hyster form HY4590B, and will be used to determine rated capacities to be included on a specific nameplate. The completed nameplate must be installed on the truck when it is put into service.

CAUTION

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



HYSTER EUROPE LIMITED

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Forklift Traders P/L

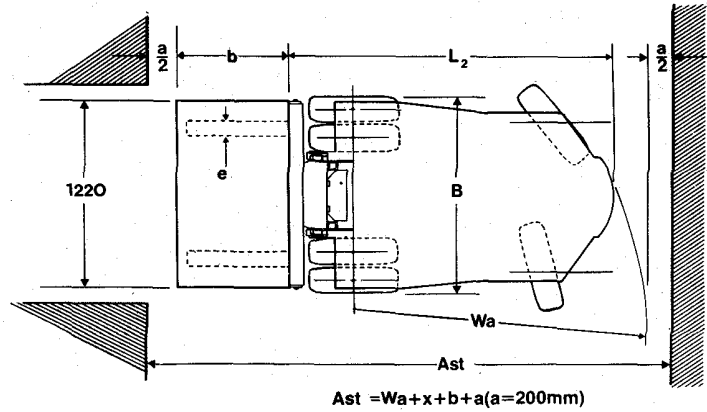
Ph: 1800 688 788

email mcarlin@flt.com.au

web www.FLT.com.au

H8.00 - 12.00XL

Model	Upright	Max Height
H8.00XL	2 Stage	5 400 mm
H9.00XL	2 Stage	5 400 mm
H10.00XL	2 Stage	6 200 mm
H12.00XL	2 Stage	6 200 mm
H13.00XL	2 Stage	6 200 mm
H14.00XL	2 Stage	6 200 mm
H16.00XL	2 Stage	6 200 mm



Load Centre

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

Rated Load

Based on vertical uprights as shown left.

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.

H13.00 - 16.00XL

