



**STRONG PARTNERS.  
TOUGH TRUCKS.™**



# **PEDESTRIAN STACKER**

**S1.2 IL, S1.4 IL, S1.6 IL**

**1200 – 1600KG**



# S1.2 IL, S1.4 IL, S1.6 IL

DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)	
	1.2	Manufacturer's type designation	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	
	1.5	Rated capacity/Rated load	Q (t)
	1.6	Load centre distance	c (mm)
	1.8	Load distance, centre of drive axle to fork*	x (mm)
	1.9	Wheelbase	y (mm)

WEIGHTS	2.1	Service weight I	kg
	2.2	Axle loading, laden front/rear	kg
	2.3	Axle loading, unladen front/rear	kg

TYRES / CHASSIS	3.1	Tyres: polyurethane, tophane, vulkollan, front/rear	
	3.2	Tyre size, front	ø (mm x mm)
	3.3	Tyre size, rear	ø (mm x mm)
	3.4	Additional wheels (dimensions)	ø (mm x mm)
	3.5	Wheels, number front/rear (x = driven wheels)	
	3.6	Tread, front	b <sub>0</sub> (mm)
	3.7	Tread, rear	b <sub>1</sub> (mm)

DIMENSIONS	4.2	Height, mast lowered	h <sub>1</sub> (mm)
	4.3	Free lift	h <sub>2</sub> (mm)
	4.4	Lift	h <sub>3</sub> (mm)
	4.5	Height, mast extended	h <sub>4</sub> (mm)
	4.6	Initial lift	h <sub>5</sub> (mm)
	4.9	Height drawbar in driving position min./max.	h <sub>10</sub> (mm)
	4.10	Height of wheel arms	h <sub>8</sub> (mm)
	4.15	Height, lowered	h <sub>13</sub> (mm)
	4.19.1	Overall length (pedestrian)	l <sub>1</sub> (mm)
	4.20.1	Length to face of forks (pedestrian)	l <sub>2</sub> (mm)
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.25	Distance between fork-arms	b <sub>3</sub> (mm)
	4.31	Ground clearance, laden, below mast	m <sub>1</sub> (mm)
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)
	4.33	Load dimension b <sub>12</sub> × l <sub>8</sub> crossways	b <sub>12</sub> × l <sub>8</sub> (mm)
4.34.1	Aisle width for pallets 1200x1000 crossways	A <sub>12</sub> (mm)	
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise	A <sub>11</sub> (mm)	
4.35.2	Turning radius (pedestrian)	W <sub>a</sub> (mm)	

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.2	Lift speed, laden/unladen	m/s
	5.3	Lowering speed, laden/unladen	m/s
	5.7	Gradeability, laden/unladen	%
	5.8	Max. gradeability, laden/unladen	%
	5.10	Service brake	

ELECTRIC ENGINE	6.1	Drive motor S2 60 minute rating	kW
	6.2	Lift motor S3 15% rating	kW
	6.3	Battery according to DIN 43531/35/36 A,B,C, no	
	6.4	Battery voltage/nominal capacity K5	(V)/(Ah)
	6.5	Battery weight	kg
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycles

DRIVE/LIFT MECHANISMS	8.1	Type of drive unit
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ADDITIONAL DATA	10.7	Sound pressure level at the driver's position	dB (A)
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HYSTER		HYSTER	
S1.2 IL		S1.4 IL	
Electric (battery)		Electric (battery)	
Pedestrian		Pedestrian	
1.2		1.4	
600		600	
644		644	
1350		1350	

1111		1111	
832	1479	760	1751
735	376	715	396

Tophane		Polyurethane		Tophane		Polyurethane	
230 x 70		230 x 70		230 x 70		230 x 70	
85 x 95		85 x 95		85 x 75		85 x 75	
150 x 54		150 x 54		150 x 54		150 x 54	
1x+1	2	1x+1	4	1x+1	4	1x+1	4
510		510		510		510	
385		385		385		385	

1900		1900			
100		100			
2800		2800			
3328		3328			
120		120			
867	1223	867	1223		
85		85			
90		90			
2028		2028			
878		878			
790		790			
55	185	1150	55	185	1150
570		570			
44		44			
20		20			
1000 x 1200		1000 x 1200			
2449		2449			
2436		2436			
1551		1551			

6	6	6	6
0.16	0.27	0.15	0.27
0.40	0.25	0.40	0.25
4.1	10.6	3.6	10.6
11.0	22.5	9.9	22.5
Electromagnetic		Electromagnetic	

1.2		1.2	
3kW (S3 12%)		3kW (S3 12%)	
B		B	
24V	250Ahm	24V	250Ahm
212		212	
0.78		0.89	

AC-Controller		AC-Controller	
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67.6		67.6	
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Specification data is based on VDI 2198

**EQUIPMENT & WEIGHT:** Weights (line 2.1) are based on the following specifications:

Complete truck with 2 stage NFL mast, 55 x 185 x 1150 mm forks, Tophane/Polyurethane drive and load wheels

HYSTER		1.1	DISTINGUISHING MARKS
S1.6 IL		1.2	
Electric (battery)		1.3	
Pedestrian		1.4	
1.6		1.5	
600		1.6	
644		1.8	
1422		1.9	

		2.1	WEIGHTS
1187		2.1	
920	1867	2.2	
790	397	2.3	

Topthane	Polyurethane	3.1	TYRES / CHASSIS
230 x 70		3.2	
85 x 75		3.3	
150 x 54		3.4	
1x+1	4	3.5	
510		3.6	
385		3.7	

		4.2	DIMENSIONS	
1900		4.2		
100		4.3		
2800		4.4		
3328		4.5		
120		4.6		
867	1223	4.9		
85		4.10		
90		4.15		
2100		4.19.1		
950		4.20.1		
790		4.21		
55	185	1150		4.22
570		4.25		
44		4.31		
20		4.32		
1000 x 1200		4.33		
2518		4.34.1		
2505		4.34.2		
1620		4.35.2		

		5.1	PERFORMANCE DATA
6.0	6.0	5.1	
0.15	0.27	5.2	
0.40	0.25	5.3	
3.0	9.8	5.7	
8.8	23.3	5.8	
Electromagnetic		5.10	

		6.1	ELECTRIC ENGINE
1.2		6.1	
3kW (S3 12%)		6.2	
B		6.3	
24V	375Ah]	6.4	
288		6.5	
0.99		6.6	

AC-Controller		8.1	DRIVE/LIFT MECHANISM
		8.1	

67.6		10.7	ADDITIONAL DATA
		10.7	

#### 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. The proposed application should be discussed with your dealer.

★ with 3 stage mast -43 mm

J with 3 stage mast +43 mm

⊗ These values may vary of +/-5%.

m Available battery 24V / 210Ah (212 kg)

] Available battery 24V / 315Ah (288 kg)

l With forks 1400/1600 mm +14 kg

◆ Available b5 680 mm: with b5 680 mm, x -43 mm, l1 and l2 +43 mm

#### FORKS TABLES

❖ With free lift of 100 mm.

▽ With load backrest (h=1000) for carriage h4 + 562 mm.

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

✘ Not available with vertical extraction of battery BS200Ah

#### STANDARD EQUIPMENT AND OPTIONS

X Standard equipment

O Optional equipment

- Not available

#### 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 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.

Hyster products might be subject to change without notice.

Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

CE Safety:

This truck conforms to the current EU requirements.

# MAST INFORMATION

## 2 STAGE NFL

	Lift height $h_3$ (mm)	Free lift $h_2$ (mm)	Height, mast lowered $h_1$ (mm) ❖	Height, mast extended $h_4$ (mm) ▽	Weight w (kg)
S1.2 IL S1.4 IL S1.6 IL	2800	100	1900❖	3328	329
	3000	100	2000❖	3528	343
	3200	100	2100	3728	356
	3400	100	2200	3928	369
	3600	100	2300	4128	382
	3800	100	2400	4328	395
	4000	100	2500	4528	409
	4200	100	2600	4728	422

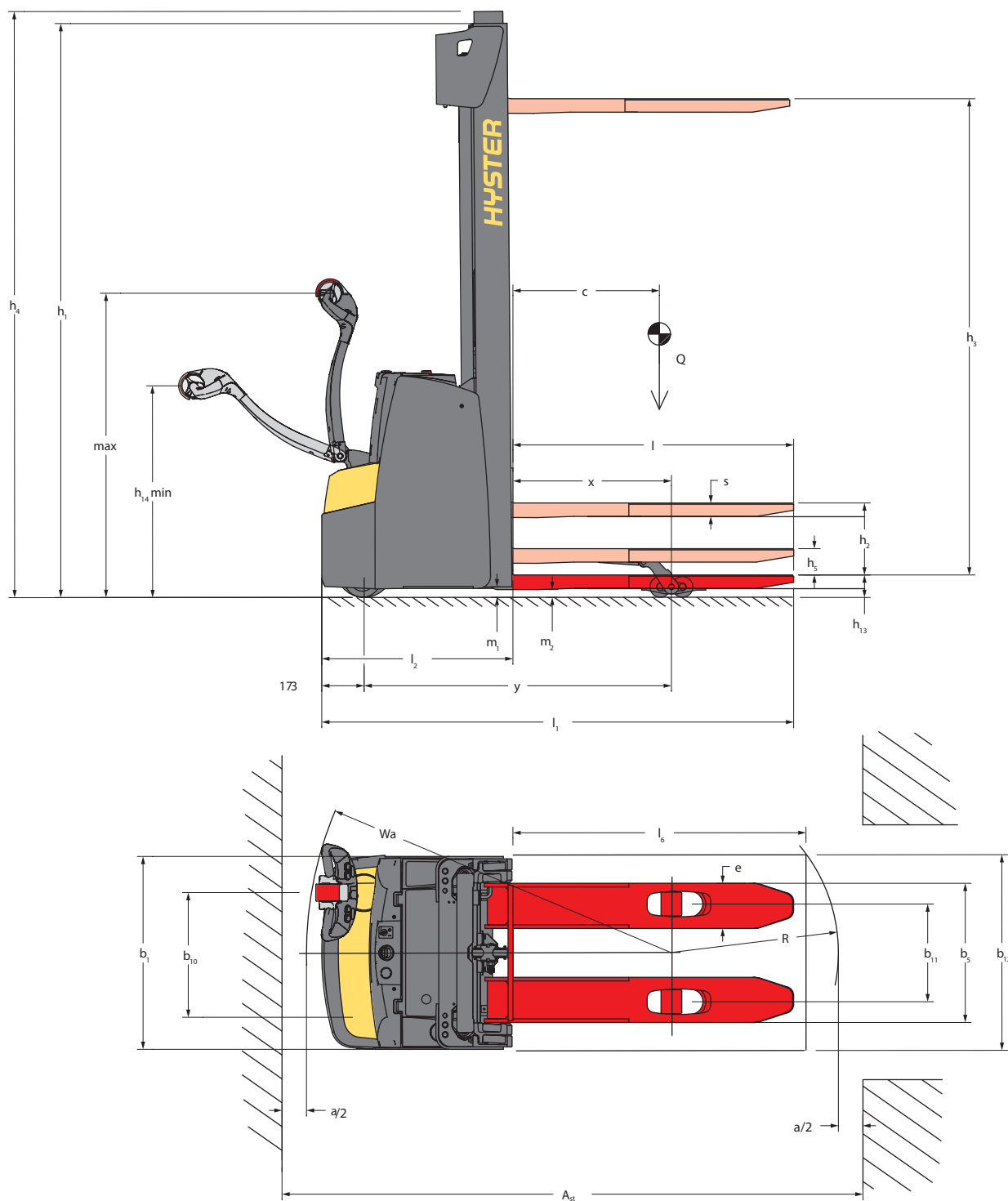
## 2 STAGE FFL

	Lift height $h_3$ (mm)	Free lift $h_2$ (mm)	Height, mast lowered $h_1$ (mm) ❖	Height, mast extended $h_4$ (mm) ▽	Weight w (kg)
S1.2 IL S1.4 IL S1.6 IL	2740	1418	1850❖	3268	341
	2940	1518	1950❖	3468	354
	3140	1618	2050	3668	367
	3340	1718	2150	3868	380
	3540	1818	2250	4068	393
	3740	1918	2350	4268	406
	3940	2018	2450	4468	419
	4140	2118	2550	4668	432

## 3 STAGE FFL

			Lift height $h_3$ (mm)	Free lift $h_2$ (mm)	Height, mast lowered $h_1$ (mm) ❖	Height, mast extended $h_4$ (mm) ▽	Weight w (kg)
S1.6 IL	S1.4 IL	S1.2 IL	4040	1318	1850❖	4606	462
			4340	1418	1950❖	4906	481
		4620	1518	2050	5186	499	
		4900	1618	2150	5466	518	
	S1.4 IL	S1.2 IL	5180	1718	2250	5746	537
			5460	1818	2350	6026	556
		5740	1918	2450	6306	575	
		6020	2018	2550	6586	594	

# TRUCK DIMENSIONS



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

(see lines 4.34.1 & 4.34.2)

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

# STANDARD EQUIPMENT AND OPTIONS

OPERATOR COMPARTMENT		S12	S14	S16
FEATURE				
Start with key		x	x	x
Keyless access		o	o	o
Tillerhead control, proportional lifting/lowering		x	x	x
Secondary lever for double pallet handling		x	x	x
Mechanical steering		x	x	x

LIFT PERFORMANCE		S12	S14	S16
FEATURE				
2 stage NFL mast		x	x	x
2 stage FFL mast		o	o	o
3 stage FFL mast		o	o	o
Mast guard - wire mesh grid		x	x	x
Mast guard - Lexan		o	o	o
Load backrest		o	o	o

APPLICATION ENVIRONMENT		S12	S14	S16
FEATURE				
Travel speed 6 km/h reverse		x	x	x
Travel speed 6 km/h forward		x	x	x
Audible alarm (choice of forks leading, forks trailing, both travel directions)		o	o	o
Multipurpose bar		o	o	o
Multipurpose clamp 1pcs		o	o	o
Beverage holder and document tray		o	o	o
A4 clipboard		o	o	o
Stretch film roll holder		o	o	o
Multipurpose clamp 2pcs		o	o	o
Cold store protection - 30° C		o	o	o
Vertical battery extraction		x	x	x
Lateral battery extraction		o	o	o
Twin battery change station (fixed)		o	o	o
Extension cable		o	o	o
On board charger		o	o	o
Single polyurethane load wheel		x	-	-
Tandem polyurethane load wheels		o	x	x
Topthane 92 SH drive tyre		x	x	x
Dynaroll 95 SH drive tyre		o	o	o
Redthane 75 SH drive tyre		o	o	o
GRP Vulkollan antistatic 92 SH drive tyre		o	o	o
Vulkollan 92 SH drive tyre		o	o	o

CHASSIS / FORK CARRIAGE / BATTERY		S12	S14	S16
FEATURE				
Chassis width (max)	790 mm	x	x	x
Fork Carriage lengths	878 mm	x	x	-
	950 mm	-	-	x
Battery sizes	210-250Ah	x	x	-
	315-375Ah	-	o	x

Please, refer to Price List for full options configurations and compatibility.

## PRODUCT FEATURES

The new tough Hyster 3000 Pedestrian Stacker with Initial Lift function is designed for stacking and retrieving loads at low and medium lift heights, double pallet handling and horizontal load transfer over short and medium travel distances. It has excellent manoeuvrability, control and visibility.

The all-new Pedestrian Stacker is built with the quality hallmarks of Hyster: tough, intelligent, dependable and efficient.

### DEPENDABILITY

- Bumper has increased thickness of 5mm and has been designed with rounds that improve both the protection of the operator's foot and the robustness.
- On Initial Lift truck mast fixing plates are welded to the carriage.
- Additional block is flanged to the standard manifold to secure that valves are stored inside the truck frame in one place.
- Battery cover is made of thick injection moulded Polycarbonate.
- Dual processors controller for increased reliability.

### PRODUCTIVITY

- Hyster traction motor gives powerful acceleration and has an increased travel speed of up to 6km/h.
- Full AC infrastructure on drive motor allows seamless changes in direction of travel, increasing cycle speeds and the control of pallet handling operations.
- The Initial Lift truck is equipped with two redundant inductive sensors that lower (with assisted function) the base arms when the forks raise from different heights.

### ERGONOMICS

- Tiller arm is mounted in a mid height offset position with a reduced operating space to offer low effort steering and better functions controllability.
- Tiller head, with angled left- and right-hand grips and large butterfly buttons to control travel direction, speed, acceleration and braking, incorporates proportional lift and lowering controls within easy reach.
- Mast incorporates Hyster designed profiles that reduce the total mast channel width and lift cylinder position optimized to increase operator visibility.

- Instrument panels are placed in reachable position and designed to house both Key or Keypad with the same layout and cover.
- The battery cover is designed to incorporate object holder although it has a wide sloped central plane to increase forks visibility.

### LOW COST OF OWNERSHIP

- Hyster 1.2 kW traction motor gives powerful acceleration and an increased travel speed for superior performance and increased productivity.
- Class leading lowest energy consumption makes Pedestrian Stacker one of the most cost effective solutions on the market.
- The battery cover protects the battery from falling objects while the emergency switch is still visible from all angles.
- Dash mounted display can show alarms, digital battery indicator and hourmeter.
- High level of parts commonality with other Hyster products with proven reliability and durability for ease of maintenance.

### SERVICEABILITY

- Greased for life load rollers in mast design.
- Display provides error codes, battery status and hour-meter.
- Service access level by laptop and standardized Hyster service cable.
- Troubleshooting via CAN and via Display.
- Service interval hydraulic oil and filter - 3000h or 3 years.
- Standard warranty – 24 month (4000 hours).

# STRONG PARTNERS. TOUGH TRUCKS.™

## FOR DEMANDING OPERATIONS, EVERYWHERE.

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