



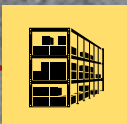
**STRONG PARTNERS.  
TOUGH TRUCKS.™**



## **POWERED STACKER WITH FOLDING PLATFORM**

**\$1.5S, \$1.5SIL, \$1.5SSL**

**1500KG**



S1.5S, S1.5SIL, S1.5SSL

DISTINGUISHING MARKS	1.1	Manufacturer (abbreviation)	HYSTER		HYSTER		HYSTER	
	1.2	Manufacturer's type designation	S1.5S		S1.5S IL		S1.5S SL	
	1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas	Battery		Battery		Battery	
	1.4	Operator type: hand, pedestrian, standing, seated, order-picker	Pedestrian / Stand-on		Pedestrian / Stand-on		Pedestrian / Stand-on	
	1.5	Rated capacity / rated load	Q (t)		1.5		1.5	
	1.6	Load centre distance	c (mm)		600		600	
	1.8	Load distance, centre of drive axle to fork ★	x (mm)		713		632 ◇	
	1.9	Wheelbase	y (mm)		1423		1520	
							1376 ◇	

WEIGHTS	2.1	Service weight (max. battery) ▲	kg
	2.2	Axle loading, laden front/rear	kg
	2.3	Axle loading, unladen front/rear	kg

1023 ➤		1040 ➤		1173 ➤	
1673	1244	1788	1159	1032	1931
380	1037	409	1038	1014	449

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>10</sub> (mm)
	3.7	Tread, rear b <sub>11</sub> (mm)

Vulkollan / Vulkollan		Vulkollan / Vulkollan		Vulkollan / Vulkollan	
254 x 90		254 x 90		254 x 90	
85 x 70		85 x 70		85 x 70 ◇	
125 x 50		125 x 50		-	
1x + 1/4		1x + 1/4		1x / 4	
576		576		-	
398		378		978 ◇ ●	

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>14</sub> (mm)
	4.10	Height of wheel arms h <sub>2</sub> (mm)
	4.15	Height, lowered h <sub>13</sub> (mm)
	4.19	Overall length (pedestrian) ★ l <sub>1</sub> (mm)
	4.19	Overall length (standing) ★ l <sub>1</sub> (mm)
	4.20	Length to face of forks (pedestrian) ★ l <sub>2</sub> (mm)
	4.20	Length to face of forks (standing) ★ l <sub>2</sub> (mm)
	4.21	Overall width b <sub>f</sub> /b <sub>2</sub> (mm)
	4.22	Fork dimensions DIN ISO 2331 s/e/l (mm)
	4.24	Fork-carriage width b <sub>3</sub> (mm)
	4.25	Distance between fork-arms b <sub>2</sub> (mm)
	4.26	Distance between wheel arms / loading surfaces b <sub>4</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)
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) ★ A <sub>st</sub> (mm)
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) ★ A <sub>st</sub> (mm)
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) ★ A <sub>st</sub> (mm)
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) ★ A <sub>st</sub> (mm)
	4.35	Turning radius (standing) W <sub>s</sub> (mm)
	4.35	Turning radius (pedestrian) ● W <sub>s</sub> (mm)

2077			1927			1877		
100			1360 (5)			100		
3168			2804			2768		
3730			3366			3330		
-			130			-		
1220	1460		1220	1460		1220	1460	
85			85			85		
90			90			90		
2129			2129			2202		
2575			2575			2648		
969			969			1003		
1415			1415			1448		
860			860			860	1105 ◇ ●	
65	180	1160	65	195	1160	35	100	1200 ■
675			675			800 ●		
570			572			730 ●		
-			-			850 ●		
30			30			30		
22			25			30		
2996			3135			2988 ◇ ●		
2553			2697			2539 ◇ ●		
2964			2984			2978 ◇ ●		
2521			2546			2529 ◇ ●		
2133			2226			2084 ◇		
1690			1788			1635 ◇		

PERFORMANCE DATA	5.1	Travel speed, laden/unladen (pedestrian)	km/h
	5.1	Travel speed, laden/unladen (standing)	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	

6	6	6	6	6	6
7	7.5	7	7.5	8	8.5
0.16	0.22	0.14	0.30	0.16	0.22
0.28	0.26	0.28	0.14	0.3	0.28
8	10	8	10	5	
8	10	8	10	5	
Electromagnetic		Electromagnetic		Electromagnetic	

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 K <sub>n</sub>	(V)/(Ah)
	6.5	Battery weight ▲	kg
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycles

4.0		4.0		4.0	
3.0		3.0		3.0	
no		no		no	
24	375 ➤	24	375 ➤	24	375 ➤
291		291		291	
-		-		-	

DRIVE/LIFT MECHANISM	8.1	Type of drive unit

AC-Controller		AC-Controller		AC-Controller	

ADDITIONAL DATA	10.7	Sound pressure level at the driver's seat	dB (A)

< 70		< 70		< 70	

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.

◇ WITH TYRE SIZE, REAR = Ø 125X50 MM : (COMBINATION B4 = 850 MM)

1.8	Load distance, centre of drive axle to fork	x (mm)
1.9	Wheelbase	y (mm)
2.1	Service weight	kg
2.2	Axle loading, laden front/rear	kg
2.3	Axle loading, unladen front/rear	kg
3.7	Tread, rear	b <sub>11</sub> (mm)
4.21	Overall width	b <sub>f</sub> /b <sub>2</sub> (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) ★	A <sub>st</sub> (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) ★	A <sub>st</sub> (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) ★	A <sub>st</sub> (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) ★	A <sub>st</sub> (mm)
4.35	Turning radius (standing)	W <sub>s</sub> (mm)
4.35	Turning radius (pedestrian) ●	W <sub>s</sub> (mm)

660 ○ *	
1404	
1463	
1063	1900
1015	448
932	
860	1014
3003	
2554	
2984	
2535	
2112	
1662	

○ AVAILABLE:

4.24	Fork-carriage width	b <sub>3</sub> (mm)
4.25	Distance between fork-arms	b <sub>4</sub> (mm)

1000 - 1200	
930 - 113	

○ WITH COMBINATION B4 = 1050 MM

3.7	Tread, rear (tyre size, rear = ø85x70mm)	b <sub>11</sub> (mm)
3.7	Tread, rear (tyre size, rear = ø125x50mm)	b <sub>11</sub> (mm)
4.21	Overall width (tyre size, rear = ø85x70mm)	b <sub>f</sub> /b <sub>2</sub> (mm)
4.21	Overall width (tyre size, rear = ø125x50mm)	b <sub>f</sub> /b <sub>2</sub> (mm)
4.26	Distance between wheel arms / loading surfaces	b <sub>4</sub> (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 1 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 2 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 1 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 2 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 1 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 2 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 1 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) (tyre size, rear = ø125x50 mm)	A <sub>st</sub> 2 (mm)

1178	
1132	
860	1305
860	1214
1050	
2989 ★	
2540 ★	
3003 ★	
2554 ★	
2978 ★	
2529 ★	
2984 ★	
2535 ★	

○ WITH COMBINATION B4 = 1250 MM

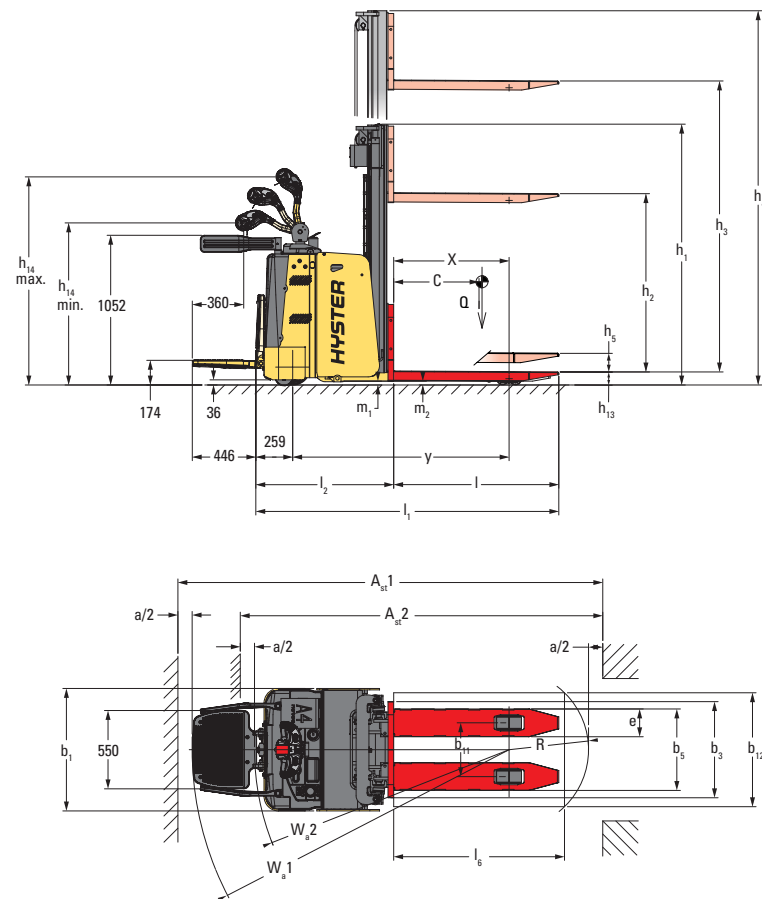
3.7	Tread, rear (tyre size, rear = ø85x70mm)	b <sub>11</sub> (mm)
3.7	Tread, rear (tyre size, rear = ø125x50mm)	b <sub>11</sub> (mm)
4.21	Overall width (tyre size, rear = ø85x70mm)	b <sub>f</sub> /b <sub>2</sub> (mm)
4.21	Overall width (tyre size, rear = ø125x50mm)	b <sub>f</sub> /b <sub>2</sub> (mm)
4.26	Distance between wheel arms / loading surfaces	b <sub>4</sub> (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 1 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 2 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (standing) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 1 (mm)
4.34.1	Aisle width for pallets 1000mm x 1200mm crossways (pedestrian) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 2 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 1 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) (tyre size, rear = ø85x70mm)	A <sub>st</sub> 2 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (standing) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 1 (mm)
4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise (pedestrian) (tyre size, rear = ø125x50mm)	A <sub>st</sub> 2 (mm)

1378	
1332	
860	1505
860	1414
1250	
3040 ★	
2591 ★	
3031 ★	
2582 ★	
3042 ★	
2593 ★	
3032 ★	
2583 ★	



TRUCK DIMENSIONS

S1.5S

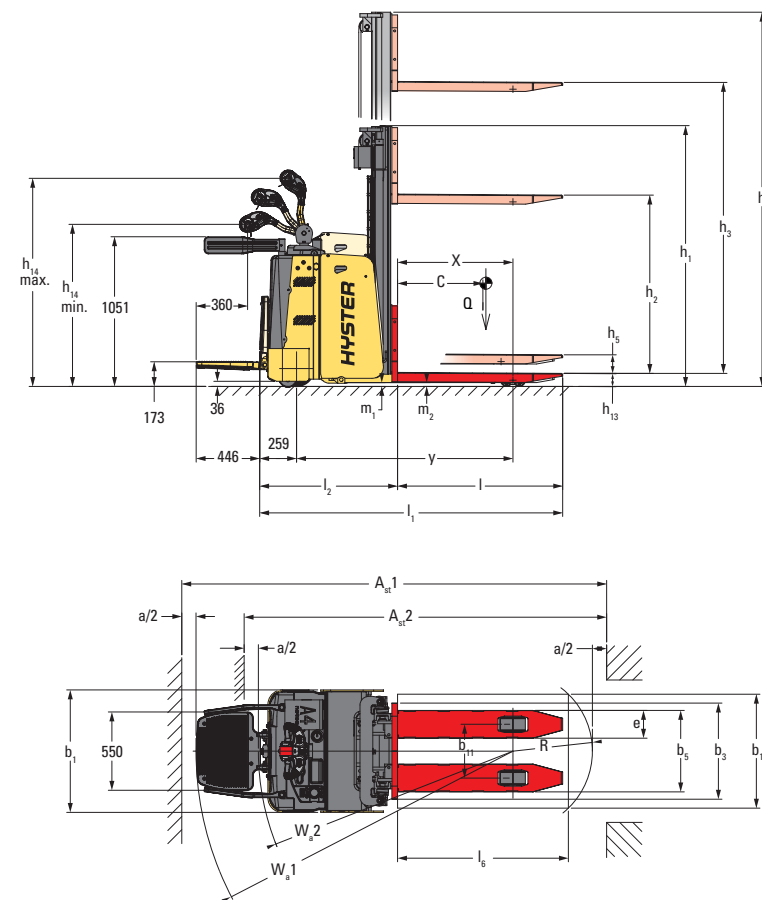


$A_{st} = W_a + R + a$   
(see lines 4.34.1 & 4.34.2)

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

$a = 200 \text{ mm}$   
 $l_6 = \text{Load length}$

S1.5S IL



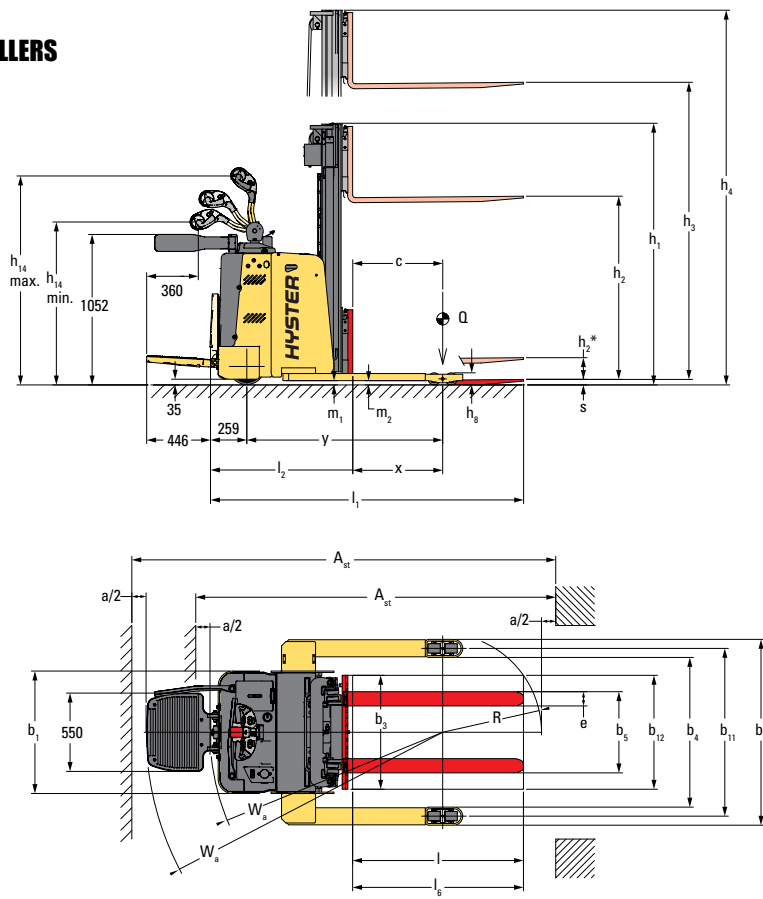
$A_{st} = W_a + R + a$   
(see lines 4.34.1 & 4.34.2)

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

$a = 200 \text{ mm}$   
 $l_6 = \text{Load length}$

TRUCK DIMENSIONS

S1.5S SL  
WITH 85MM ROLLERS

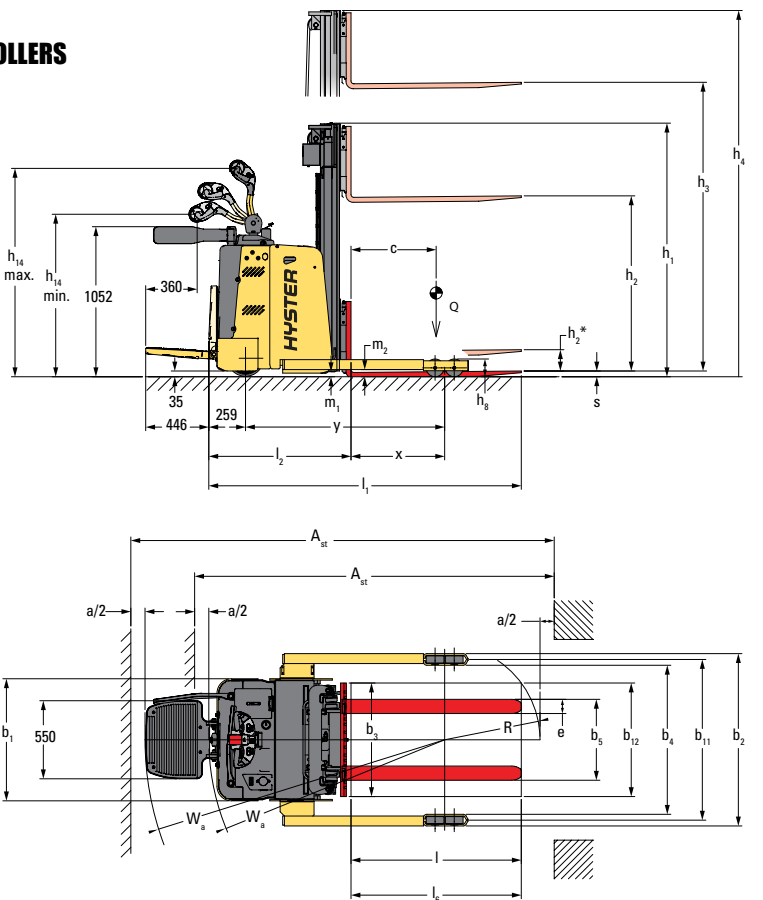


$A_{st} = W_a + R + a$   
(see lines 4.34.1 & 4.34.2)

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

$a = 200 \text{ mm}$   
 $l_6 = \text{Load length}$

S1.5S SL  
WITH 125MM ROLLERS



$A_{st} = W_a + R + a$   
(see lines 4.34.1 & 4.34.2)

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

$a = 200 \text{ mm}$   
 $l_6 = \text{Load length}$

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.

\$1.5S

	Lift height h <sub>3</sub> mm	Free lift h <sub>2</sub> mm	“Height, mast lowered” h <sub>1</sub> ♦ mm	“Height, mast extended” h <sub>4</sub> ⊗ mm	Weight ♣ kg
2 stage Limited Free Lift, HI VI “J” profile	2768	100	1877	3330	406
	2968	100	1977	3530	418
	3168	100	2077	3730	428
	3368	100	2177	3930	442
	3768	100	2377	4330	466
	4168	100	2577	4730	490
2 stage Full Free Lift, HI VI “J” profile	2604	1260	1827	3166	405
	2804	1360	1927	3366	416
	3004	1460	2027	3566	426
	3204	1560	2127	3766	436
	3404	1660	2227	3966	446
	3604	1760	2327	4166	456
	4004	1960	2527	4566	476
3 stage Full Free Lift, HI VI “J” profile	4028	1260	1827	4590	510
	4328	1360	1927	4890	530
	4628	1460	2027	5190	550

\$1.5S IL

	Lift height h <sub>3</sub> mm	Free lift h <sub>2</sub> mm	“Height, mast lowered” h <sub>1</sub> ♦ mm	“Height, mast extended” h <sub>4</sub> ⊗ mm	Weight ♣ kg
2 stage Limited Free Lift, HI VI “J” profile	2768	100	1877	3330	406
	2968	100	1977	3530	418
	3168	100	2077	3730	428
	3368	100	2177	3930	442
	3768	100	2377	4330	466
	4168	100	2577	4730	490
2 stage Full Free Lift, HI VI “J” profile	2604	1260	1827	3166	405
	2804	1360	1927	3366	416
	3004	1460	2027	3566	426
	3204	1560	2127	3766	436
	3404	1660	2227	3966	446
	3604	1760	2327	4166	456
	4004	1960	2527	4566	476
3 stage Full Free Lift, HI VI “J” profile	4028	1260	1827	4590	510
	4328	1360	1927	4890	530
	4628	1460	2027	5190	550

\$1.5S IL

	Lift height h <sub>3</sub> mm	Free lift h <sub>2</sub> mm	“Height, mast lowered” h <sub>1</sub> ♦ mm	“Height, mast extended” h <sub>4</sub> ⊗ mm	Weight ♣ kg
2 stage Limited Free Lift, HI VI “J” profile	2768	100	1877	3330	406
	2968	100	1977	3530	418
	3168	100	2077	3730	428
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	3604	1760	2327	4166	456
	4004	1960	2527	4566	476
3 stage Full Free Lift, HI VI “J” profile	4028	1260	1827	4590	510
	4328	1360	1927	4890	530
	4628	1460	2027	5190	550
	4798	1560	2127 ♣	5360	562
	5098	1660	2227 ♣	5660	586
	5398	1760	2327 ♣	5960	606
	5998	1960	2527 ♣	6560	636

**NOTE:** 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.

PRODUCT FEATURES

- **S1.5S** Powered stacker with folding platform.
- **S1.5S IL** Powered stacker with folding platform, initial lift
- **S1.5S SL** Powered stacker with folding platform, straddle legs.  
Also available with tandem load wheels

DEPENDABILITY

- MOSFET high frequency Combi controller for traction and hydraulic controls.
- Welded fork construction makes them highly resistant to torsion and heavy loads.
- Hour meter and battery discharge indicator with lift interrupt fitted as standard.
- Cold store protection for application to -30 C.
- Specific ‘initial lift’ and ‘straddle legs’ models provide the right answer to any application.
- High visibility and full free lift 2 and 3-stage masts availability.

PRODUCTIVITY

- Operator-friendly tiller head controls for productive load handling.
- Regenerative braking and anti-rollback both available as standard.
- Pedestrian or stand-on operation, with or without side arms raised for improved poductivity.
- Progressive speed control and steering system ensure optimum performance levels.
- Tandem load wheels and exit/entry rollers as standard.
- Key-pad with PIN code for enhanced fleet management.
- Power steering makes truck highly manoeuvrable.

ERGONOMICS

- Ergonomically designed tiller head for maximum operator comfort.
- Low effort controls ergonomically positioned to reduce operator fatigue.
- Dual lift/lower controls allow operation using either hand.
- ‘Corner control’ system reduces speed automatically when cornering.
- 5-point wheel layout, with fixed stabilizer wheels, provides enhanced stability.
- Adjustable performance settings to suit specific operating conditions.

COST OF OWNERSHIP

- AC drive motor provides superior performance and reduced operation costs.
- Power transmission supplied via helicoidal gears, running in oil bath.
- IP54 standards control for protection against dust and water.
- Optimum component reliability permit the extension of service materials.

SERVICEABILITY

- AC drive motor and brushless lift motor construction ensures low maintenance requirements.
- Built-in diagnostic system for preventative maintenance communication reduces downtime.
- Driver Diagnostic Interface (DDI) allows selection of appropriate performance settings for specific applications.
- CANbus technology for increased functionality, reliability and servicing.



# 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.



### HYSTER EUROPE

Centennial House, Frimley Business Park, Frimley, Surrey, GU16 7SG, England.

Tel: +44 (0) 1276 538500



[www.hyster.eu](http://www.hyster.eu)



[infoeurope@hyster.com](mailto:infoeurope@hyster.com)



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