



STRONG PARTNERS. TOUGH TRUCKS

Pedestrian Stackers
S1.0E, S1.0, S1.2, S1.4, S1.4il, S1.6, S1.6il

1 000 - 1 600 kg



S1.0E, S1.0, S1.2, S1.4, S1.4il, S1.6, S1.6il

CHARACTERISTICS	1.1	Manufacturer	
	1.2	Model designation	
	1.3	Power: battery, diesel, LPG, electric mains	
	1.4	Operation: manual, pedestrian, stand, seat, orderpicker	
	1.5	Load capacity	Q (kg)
	1.6	Load centre	c (mm)
	1.8	Load distance	x (mm)
	1.9	Wheelbase	y (mm)

WEIGHTS	2.1	Unladen weight	kg
	2.2	Axle loading with load, front/rear	kg
	2.3	Axle loading without load, front/rear	kg

WHEELS & TYRES	3.1	Tyres: rubber, polyurethane front/rear ▽	
	3.2	Tyre size, front	
	3.3	Tyre size, rear	
	3.4	Additional wheel dimensions	
	3.5	Number of wheels, front/rear (X = driven)	
	3.6	Track width, front	b ₁₀ (mm)
	3.7	Track width, rear	b ₁₁ (mm)

DIMENSIONS	4.2	Height of mast, lowered	h ₁ (mm)
	4.3	Free lift	h ₂ (mm)
	4.4	Lift height	h ₃ (mm)
	4.5	Height of mast, extended	h ₄ (mm)
	4.6	Initial lift	h ₅ (mm)
	4.9	Height of tiller arm in working position min./max.	h ₁₄ (mm)
	4.15	Lowered height	h ₁₃ (mm)
	4.19	Overall length	l ₁ (mm)
	4.20	Length to face of forks	l ₂ (mm)
	4.21	Overall width	b ₁ /b ₂ (mm)
	4.22	Fork dimensions	s/e/l (mm)
	4.24	Fork carriage width	b ₃ (mm)
	4.25	Outside fork width	b ₅ (mm)
	4.31	Ground clearance under mast, with load	m ₁ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
4.33	Aisle width with pallets 1 000 mm x 1 200 mm wide	Ast (mm)	
4.34	Aisle width with pallets 800 mm x 1 200 mm long	Ast (mm)	
4.35	Turning radius	Wa (mm)	

PERFORMANCE	5.1	Travel speed with/without load	km/h
	5.2	Lifting speed with/without load	m/sec
	5.3	Lowering speed with/without load	m/sec
	5.8	Max. gradeability with/without load	%
	5.10	Service brake	

POWER UNIT	6.1	Drive motor, S2 60 minute rating	kW
	6.2	Lift motor, S3 25% (S1.0E), S3 15% (S1.0-S1.6)	kW
	6.3	Battery according to DIN 43531/35/36 A,B,C, no	
	6.4	Battery voltage/capacity at 5 hour rate	V/Ah
	6.5	Battery weight (+/- 5%)	kg

OTHER	8.1	Drive control	
	8.4	Average noise level at driver's ear	dB (A)

HYSTER		HYSTER		HYSTER	
S1.0E		S1.0		S1.2	
Battery		Battery		Battery	
Pedestrian		Pedestrian		Pedestrian	
1 000		1 000		1 200	
600		600		600	
677 ☼		714		744 ■	
1 225		1 225		1 315	

745		880		960 ▶	
555	1 190	660	1 220	740	1 420
515	230	610	270	670	290

Vulkollan		Poly/Poly ▽		Poly/Poly ▽	
Ø 230 x 75		Ø 230 x 75		Ø 230 x 75	
Ø 85 x 74,5		Ø 85 x 100		Ø 85 x 100	
Ø 150 x 50		Ø 150 x 50		Ø 150 x 50	
1X + 1/2		1X + 1/2		1X + 1/2	
515		515		515	
420		400		400	

See table			See table			See table		
See table			See table			See table		
See table			See table			See table		
See table			See table			See table		
-			-			-		
695	1 196		695	1 196		695	1 196	
85			90			90		
1 892 <			1 852			1 912 □		
732 <			692			752 □		
800			800			800		
65	180	1 160	65	180	1 160	65	180	1 160
675			675			675		
570			570			570		
30			22			22		
20			30			30		
2 242 >			2 405			2 478 ◆		
2 386 >			2 369			2 433 ❖		
1 528			1 540			1 626		

5,6	6,0	5,5	6	5,5	6
0,10	0,20	0,13	0,18	0,12	0,18 ¶
0,20	0,25	0,30	0,25	0,30	0,25
8	10	7	10	7	10
Electromagnetic		Electromagnetic		Electromagnetic	

1		1,2		1,2	
2		2		2	
-		-		43535 B	
24	150	24	150 (200)	24	210 (250)
150		150 (144-185)		222 (212)	

MOSFET		MOSFET		MOSFET	
65		< 70		< 70	

Specification data is based on VDI 2198

Equipment and weight:

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

- S1.0E: Mast 2 860 mm
- S1.0 - S1.2: Mast 2 820 mm
- S1.4 - S1.4il : Mast 2 965 mm
- S1.6 - S1.6il : Mast 2 965 mm

HYSTER		HYSTER		HYSTER		HYSTER		HYSTER		
S1.4		S1.4		S1.4il		S1.6		S1.6il		1.1
Battery		Battery		Battery		Battery		Battery		1.2
Pedestrian		Pedestrian		Pedestrian		Pedestrian		Pedestrian		1.3
1 400		1 400		1 400		1 600		1 600		1.4
600		600		600		600		600		1.5
712 ○		712 ○		818 ○		712 ○		818 ○		1.6
1 315		1 385		1 529		1 385		1 529		1.8
										1.9

CHARACTERISTICS

1 000 ●		1 120 ●		1 200 ●		1 120 ●		1 200 ●		
570	1 830	810	1 710	900	1 700	875	1 845	950	1 850	2.1
695	305	760	360	800	400	760	360	800	400	2.2
										2.3

WEIGHTS

Poly/Poly ▼		Poly/Poly ▼		Poly/Poly ▼		Poly/Poly ▼		Poly/Poly ▼		
Ø 230 x 75		Ø 230 x 75		Ø 230 x 75		Ø 230 x 75		Ø 230 x 75		3.1
Ø 85 x 70		Ø 85 x 70		Ø 85 x 70		Ø 85 x 70		Ø 85 x 70		3.2
Ø 150 x 50		Ø 150 x 50		Ø 150 x 50		Ø 150 x 50		Ø 150 x 50		3.3
1X + 1/4		1X + 1/4		1X + 1/4		1X + 1/4		1X + 1/4		3.4
515		515		515		515		515		3.5
400		400		375		400		375		3.6
										3.7

WHEELS & TYRES

See table		See table		See table		See table		See table		4.2		
See table		See table		See table		See table		See table		4.3		
See table		See table		See table		See table		See table		4.4		
See table		See table		See table		See table		See table		4.5		
-		-		130		-		130		4.6		
695	1 196	695	1 196	695	1 196	695	1 196	695	1 196	4.9		
90		90		90		90		90		4.15		
1 944 ◀		2 013 ◀		2 052 ◀		2 013 ◀		2 052 ◀		4.19		
784 ◀		853 ◀		892 ◀		853 ◀		892 ◀		4.20		
800		800		860		800		860		4.21		
65	180	1 160	65	180	1 160	65	180	1 160	65	195	1 160	4.22
675		675		675		675		675		4.24		
570		570		570		570		570		4.25		
22		22		30 + 130		22		30 + 130		4.31		
30		30		30 + 130		30		30 + 130		4.32		
2 492 ⌘		2 558 ⌘		2 587 ⌘		2 558 ⌘		2 587 ⌘		4.33		
2 457 ⊙		2 523 ⊙		2 513 ⊙		2 523 ⊙		2 513 ⊙		4.34		
1 626		1 692		1 760		1 692		1 760		4.35		

DIMENSIONS

5,5	6	5,5	6	5,0	5,0	5,5	6	5,0	5,0	5.1
0,15	0,22	0,15	0,22	0,15	0,22	0,15	0,22	0,15	0,22	5.2
0,30	0,25	0,30	0,25	0,30	0,25	0,30	0,25	0,30	0,25	5.3
7	10	7	10	7	10	7	10	7	10	5.8
Electromagnetic		Electromagnetic		Electromagnetic		Electromagnetic		Electromagnetic		5.10

PERFORMANCE

1,2		1,2		1,2		1,2		1,2		6.1
3		3		3		3		3		6.2
43535 B		43535 B		-		43535 B		-		6.3
24	210 (250)	24	315 (375)	24	315 (375)	24	315 (375)	24	315 (375)	6.4
222 (212)		288		267 (291)		288		267 (291)		6.5

POWER UNIT

MOSFET		MOSFET		MOSFET		MOSFET		MOSFET		8.1
< 70		< 70		< 70		< 70		< 70		8.4

OTHER

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.

Masts S1.0E

	Lift height mm (h ₃)	Maximum fork height mm (h ₁₃)	Height of mast lowered mm (h ₁)	Free lift mm (h ₂)	Height of mast extended mm (h ₄)
1-Stage limited free lift	1 760 †	1 845	2 320	1 760 †	2 330
	2 860	2 945	1 935	100	3 315 [▲]
2-Stage limited free lift	3 260	3 345	2 135	100	3 715 [▲]
	3 460	3 545	2 235	100	3 915 [▲]

Masts S1.0

	Lift height mm (h ₃)	Maximum fork height mm (h ₁₃)	Height of mast lowered mm (h ₁)	Free lift mm (h ₂)	Height of mast extended mm (h ₄)
1-Stage limited free lift	1 260	1 350	1 820	1 260	1 830
	1 360	1 450	1 920	1 360	1 930
	1 460	1 550	2 020	1 460	2 030
	1 560	1 650	2 120	1 560	2 130
	1 760	1 850	2 320	1 760	2 330
2-Stage limited free lift	2 830	2 920	1 870 †	100	3 383
	3 030	3 120	1 970 †	100	3 583
	3 230	3 320	2 070 †	100	3 783
	3 430	3 520	2 170 †	100	3 983
	3 830	3 920	2 370 †	100	4 383

Masts S1.2

	Lift height mm (h ₃)	Maximum fork height mm (h ₁₃)	Height of mast lowered mm (h ₁)	Free lift mm (h ₂)	Height of mast extended mm (h ₄)
1-Stage limited free lift	1 260	1 350	1 820	1 260	1 830
	1 360	1 450	1 920	1 360	1 930
	1 460	1 550	2 020	1 460	2 030
	1 560	1 650	2 120	1 560	2 130
	1 760	1 850	2 320	1 760	2 330
2-Stage limited free lift	2 830	2 920	1 870 †	100	3 385
	3 030	3 120	1 970 †	100	3 583
	3 230	3 320	2 070 †	100	3 785
	3 430	3 520	2 170 †	100	3 985
	3 830	3 920	2 370 †	100	4 385
2-Stage full free lift	4 230	4 320	2 570 †	100	4 785
	2 603	2 693	1 820	1 260	3 164
	2 803	2 893	1 920	1 360	3 364
	3 003	3 093	2 020	1 460	3 564
	3 203	3 293	2 120	1 560	3 764
	3 403	3 493	2 220	1 660	3 964
	3 603	3 693	2 320	1 760	4 164
4 003	4 093	2 520	1 960	4 564	
3-Stage full free lift	4 027	4 117	1 820	1 260	4 588
	4 327	4 417	1 920	1 360	4 888

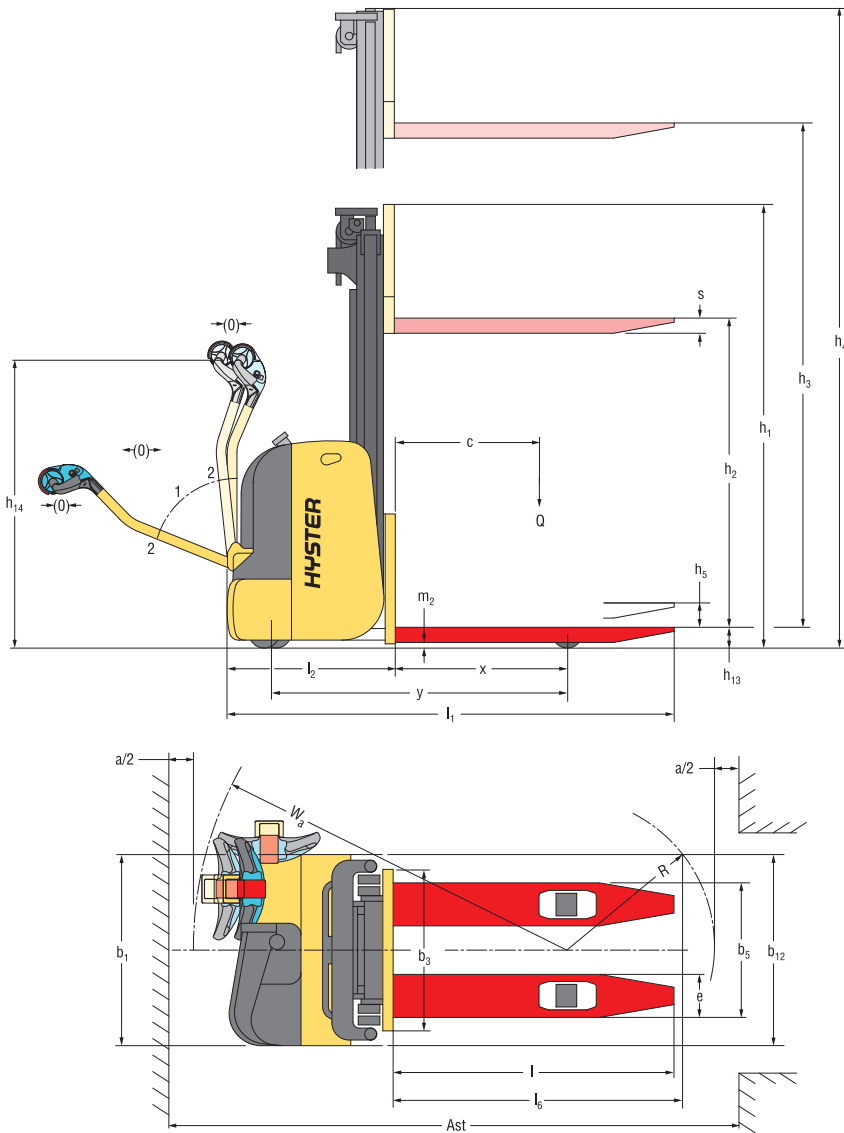
Masts S1.4

	Lift height mm (h ₃)	Maximum fork height mm (h ₁₃)	Height of mast lowered mm (h ₁)	Free lift mm (h ₂)	Height of mast extended mm (h ₄)
2-Stage limited free lift	2 765	2 855	1 870 †	100	3 335
	2 965	3 055	1 970 †	100	3 535
	3 165	3 255	2 070 †	100	3 735
	3 365	3 455	2 170 †	100	3 935
	3 765	3 855	2 370 †	100	4 335
	4 165	4 255	2 570 †	100	4 735
	2-Stage full free lift	2 603	2 693	1 820	1 260
2 803		2 893	1 920	1 360	3 364
3 003		3 093	2 020	1 460	3 564
3 203		3 293	2 120	1 560	3 764
3 403		3 493	2 220	1 660	3 964
3 603		3 693	2 320	1 760	4 164
4 003		4 093	2 520	1 960	4 564
3-Stage full free lift	4 027	4 117	1 820	1 260	4 588
	4 327	4 417	1 920	1 360	4 888

Masts S1.6

	Lift height mm (h ₃)	Maximum fork height mm (h ₁₃)	Height of mast lowered mm (h ₁)	Free lift mm (h ₂)	Height of mast extended mm (h ₄)
2-Stage limited free lift	2 765	2 855	1 870 †	100	3 335
	2 965	3 055	1 970 †	100	3 535
	3 165	3 255	2 070 †	100	3 735
	3 365	3 455	2 170 †	100	3 935
	3 765	3 855	2 370 †	100	4 335
	4 165	4 255	2 570 †	100	4 735
2-Stage full free lift	2 603	2 693	1 820	1 260	3 164
	2 803	2 893	1 920	1 360	3 364
	3 003	3 093	2 020	1 460	3 564
	3 203	3 293	2 120	1 560	3 764
	3 403	3 493	2 220	1 660	3 964
	3 603	3 693	2 320	1 760	4 164
	4 003	4 093	2 520	1 960	4 564
3-Stage full free lift	4 027	4 117	1 820	1 260	4 588
	4 327	4 417	1 920	1 360	4 888
	4 627	4 717	2 020	1 460	5 188
	4 797	4 887	2 120	1 560	5 358
	5 097	5 187	2 220	1 660	5 658
	5 397	5 487	2 320	1 760	5 958

S1.0E, S1.0, S1.2, S1.4, S1.6



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

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

$a = 200 \text{ mm}$

$l_6 = \text{Load Length}$

NOTE:

The condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area affect specifications. If these specifications are critical, the proposed application should be discussed with your dealer.

- With 3 stage mast deduct 50 mm
- With 3 stage mast deduct 18 mm
- ▶ With 3 stage mast add 175 kg
- With 3 stage mast add 115 kg
- ∨ Multicomponent available
- With 3 stage mast add 50 mm
- ◐ With 3 stage mast add 18 mm
- ◆ With 3 stage mast add 22 mm
- ❖ With 3 stage mast add 38 mm
- ⌘ With 3 stage mast add 8 mm
- ⊙ With 3 stage mast add 14 mm
- ¶ With 3 stage mast: 0,10/0,18 m/s
- With 1-Stage mast subtract 29 mm
- ◀ Values are referred to a truck equipped with lowest mast, and minimum battery provided in price list

Mast tables:

- ⊕ Forks raised 100 mm
- ▲ Add 525 mm with load backrest

Notice

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. Operators must be trained and adhere to the instructions contained in the Operating Manual.

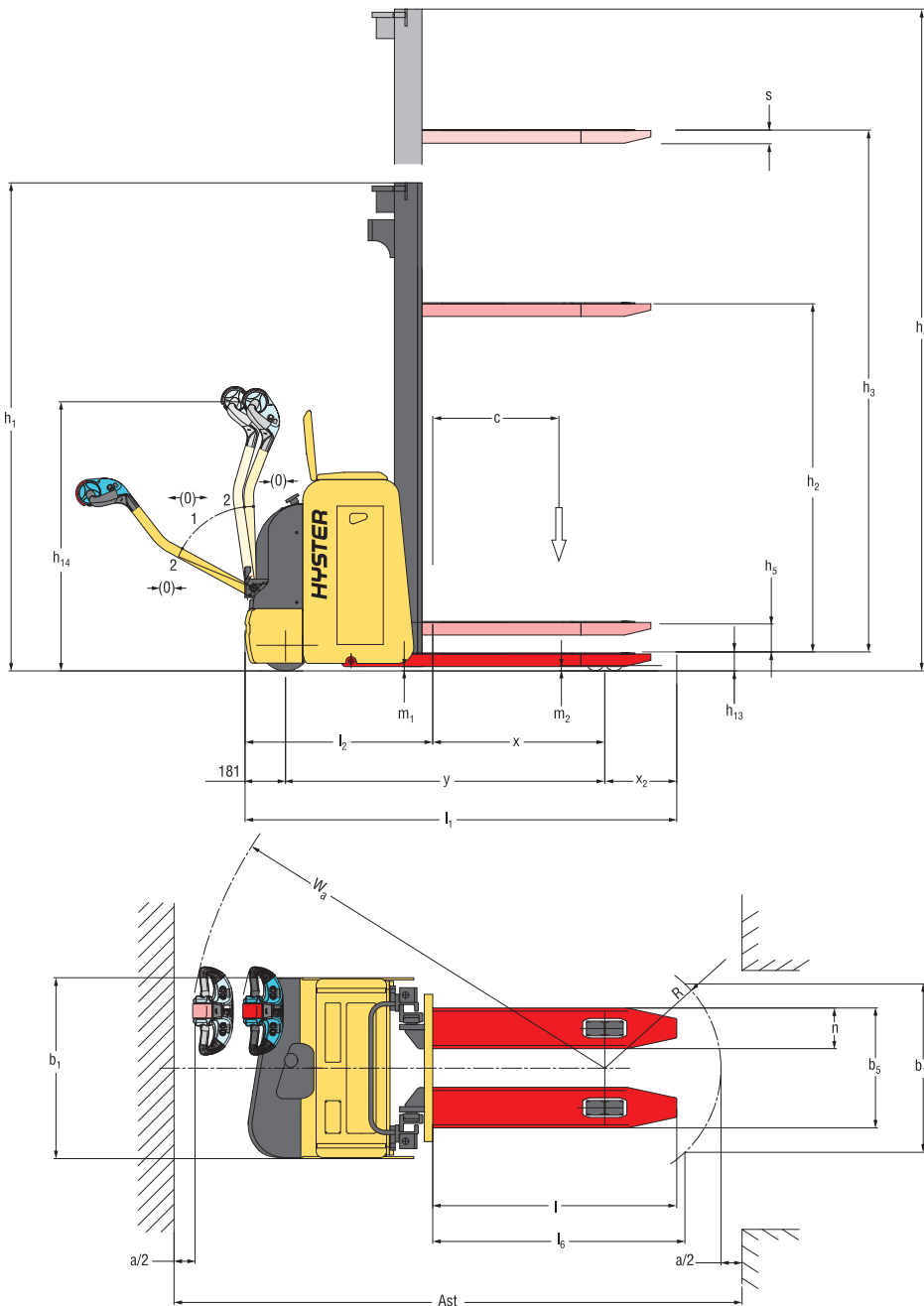
Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.



This truck conforms to the current EU requirements.

Truck dimensions

S1.4il, S1.6il



$$Ast = W_a + R + a \text{ (see lines 4.33 \& 4.34)}$$

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

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

$$l_6 = \text{Load Length}$$

NOTE:

The condition of the vehicle and how it is equipped, as well as the nature and condition of the operating area affect specifications. If these specifications are critical, the proposed application should be discussed with your dealer.

- With 3 stage mast deduct 50 mm
- With 3 stage mast deduct 18 mm
- With 3 stage mast add 175 kg
- With 3 stage mast add 115 kg
- ▼ Multicomponent available
- With 3 stage mast add 50 mm
- With 3 stage mast add 18 mm
- ◆ With 3 stage mast add 22 mm
- ❖ With 3 stage mast add 38 mm
- ⌘ With 3 stage mast add 8 mm
- ⊙ With 3 stage mast add 14 mm
- ¶ With 3 stage mast: 0,10/0,18 m/s
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Mast tables:

- ⊕ Forks raised 100 mm
- ▼ Add 525 mm with load backrest

Notice

Care must be exercised when handling elevated loads. When the carriage and/or load is elevated, truck stability is reduced. Operators must be trained and adhere to the instructions contained in the Operating Manual.

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This truck conforms to the current EU requirements.

Product Features

Dependability

- AC drive motor on S1.0, S1.2, S1.4, S1.4il, S1.6 and S1.6il allows smooth and reliable load handling.
- Comprehensive selection of mast configurations, including 2-stg Full Free Lift.
- Tough pump motor mounted on elastomeric pads reduces noise and vibration.
- Power transmission supplied via helicoidal gears, running in an oil bath.
- Welded fork construction makes them highly resistant to torsion and heavy loads.

Productivity

- AC technology on S1.0, S1.2, S1.4, S1.4il, S1.6 and S1.6il delivers powerful acceleration and braking torque. This leads to smoother and faster load handling.
- Operator-friendly tiller head controls for improved load handling.
- Compact chassis design improves handling in confined spaces.
- Automatic braking on release of the movement controls.
- Regenerative braking and anti-roll back as standard.
- Adjustable settings to suit specific operating conditions.
- Powerful AC traction motor on S1.0-S1.6 provides superior performance and increased loads moved per hour.

Ergonomics

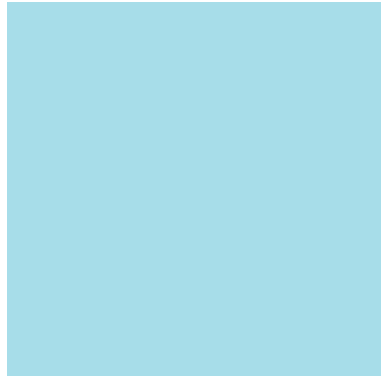
- Tiller head ergonomically designed for maximum operator comfort.
- Controls positioned to allow operation with either hand.
- Precise steering system gives optimum control at any speed.
- Progressive speed control system for safe and proficient operation.
- 4-point wheel layout for added stability and maximum safety.

Cost of ownership

- AC traction motor on S1.0, S1.2, S1.4, S1.4il, S1.6 and S1.6il reduces maintenance cost (no carbon brush).
- Increased load moves per hour reduces operating costs.
- High frequency Combi controller controls traction and hydraulics, allowing progressive speed control as well as delivering optimum energy efficiency.
- Intelligent management system optimises energy usage.

Serviceability

- Diagnostic indicators (MDI) for early warning of maintenance requirements.
- MDI informs operator in real-time about truck conditions.
- Built in diagnostic system allows preventive maintenance communications, increasing uptime.
- Updated components permit extended service intervals.
- Hour meter and battery discharge indicator with lift interrupt fitted as standard.



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

Hyster supplies a complete product range, including Warehouse trucks, 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 materials 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 materials handling needs so you can focus on the success of your business today and in the future.



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