



**STRONG PARTNERS.
TOUGH TRUCKS.™**



S2.4HBE SERIES TECHNICAL GUIDE



WWW.HYSTER.COM

> S2.4HBE

GENERAL	1-1	Manufacturer			HYSTER		
	1-2	Model designation			S2.4HBE		
	1-3	Drive			Electric (battery)		
	1-4	Operator type: hand, pedestrian, standing, seated, order-picker			Pedestrian		
	1-5	Rated capacity / rated load	Q ₁	t	2.4		
	1-6	Load centre distance	c	mm	514 (5)	415 (6)	
	1-8	Load distance, centre of drive axle to forks	x	mm	677 (5)	477 (6)	
	1-9	Wheelbase	y	mm	1372		
	WEIGHT	2-1	Service weight		kg	914	
2-2		Axle loading with load, front / rear		kg	858	2456	
2-3		Axle loading without load, front / rear		kg	624	290	
WHEELS	3-1	Tyres: polyurethane, tophane, NDIIThane, front/rear			Polyurethane	Polyurethane	
	3-2	Tyre size, front	ø	mm x mm	230 x 75		
	3-3	Tyre size, rear	ø	mm x mm	50 x 70		
	3-4	Additional wheels (dimensions)	ø	mm x mm	150 x 50		
	3-5	Wheels, number front/rear (x = driven wheels)			1x+1	8	
	3-6	Tread, front	b ₁₀	mm	510		
	3-7	Tread, rear	b ₁₁	mm	291		
DIMENSIONS	4.2	Height, mast lowered	h	mm	891		
	4.3	Free lift	h ₂	mm	-		
	4.4	Lift	h ₃	mm	291		
	4.5	Height, mast extended	h ₄	mm	963		
	4.9	Height drawbar in driving position min./max..	h ₁₄	mm	746	1242	
	4.15	Height, lowered	h ₁₃	mm	142		
	4.19	Overall length	l ₁	mm	1883		
	4.20	Length to face of forks	l ₂	mm	868 (5)	1068 (6)	
	4.21	Overall width	b ₁ /b ₂	mm	790	827	
	4.22	Fork dimensions (4)	s/e/l	mm	40	125	1150
	4.25	Distance between fork-arms	b ₅	mm	341	797	
	4.31	Ground clearance, laden, below mast	m ₁	mm	20		
	4.32	Ground clearance, center of wheelbase	m ₂	mm	20		
	4.33	Load dimension b ₁₂ × l ₆ crossways	b ₁₂ × l ₆	mm	1028 x 999 (5)	830 x 738 (6)	
	4.34.1	Aisle width for pallets 1200mm x 1000mm crossways	A _{st}	mm	-		
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise	A _{st}	mm	2389 (5)	2262 (6)	
	4.35	Turning radius	W _a	mm	1572		
PERFORMANCE	5-1	Travel speed, laden/unladen		km/h	4.4	6.0	
	5-1-1	Travel speed, laden/unladen, backwards		km/h	4.4	6.0	
	5-2	Lift speed, laden/unladen		m/s	0.05	0.07	
	5-3	Lowering speed, laden/unladen		m/s	0.06	0.05	
	5-7	Gradeability, laden/unladen		%	-	-	
	5-8	Max. gradeability, laden/unladen		%	-	-	
	5-10	Service brake			Electromagnetic		
ELECTRIC ENGINE	6-1	Drive motor, S2 60 minute rating		kW	1.2		
	6-2	Lift motor S3 15% rating		kW	2,2kW (S3 5%)		
	6-3	Battery according to DIN 43531/35/36 A,B,C, no			no		
	6-4	Battery voltage/nominal capacity K _s		V/Ah	24V	150Ah (7) (8)	
	6-5	Battery weight (1)		kg	144		
	6-6	Energy consumption according to VDI cycle		kWh	0.84		
	8-1	Type of drive unit			AC-Controller		
	10-7	Sound pressure level at the driver's seat		dB (A)	66		

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. Inform your dealer of the nature and condition of the intended operating area when purchasing your Hyster Truck.

- (1) These values may vary of +/-5%.
- (2) Available batteries 24V / 150Ah (144 kg) ; 24V / 200Ah Polypropylene case version (160 kg) ; 24V / 150Ah Polypropylene case version (125 kg)
- (3) Available batteries 24V / 200Ah Polypropylene case version (160 kg)
- (4) With 2 stg mast and b5=570mm the s dimension increases 5mm for first 250mm at toe
- (5) These values are with loadbackrest up
- (6) These values are with loadbackrest down
- (7) Available battery 24V / 100Ah Li-Ion (144 kg)
- (8) Available battery 24V / 200Ah Li-Ion (154 kg)

EQUIPMENT & WEIGHT

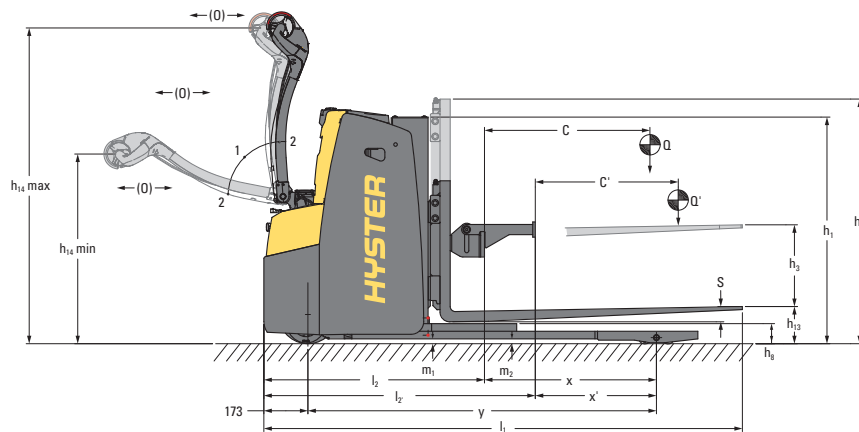
Weights (line 2.1) are based on the following specifications: Complete truck with 125mm forks with integrated load backrest, polyurethane driver and load wheels.

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 the mast tilt in either direction is 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 are subject to change without notice. Lift trucks illustrated may feature optional equipment. Values may vary with alternative configurations.

Specification data is based on VDI 2198

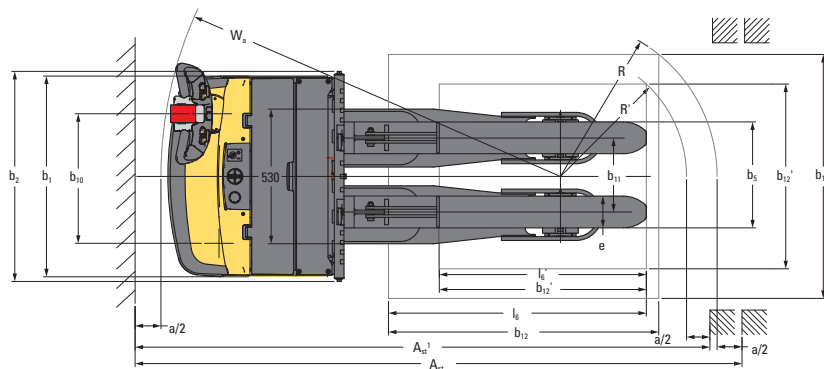
CE Safety: This truck conforms to the current EU requirements.



$$Ast = W_a + R + a$$

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

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



PRODUCT FEATURES



DEPENDABILITY

- 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

- 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.

ERGONOMICS

- The tiller head is ergonomically designed for maximum operator comfort.
- 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.

LOW COST OF OWNERSHIP

- High level of parts commonality with other Hyster products with proven reliability and durability for ease of maintenance.

SERVICEABILITY

- The powered battery exchange stacker is delivered with a built in battery charger.
- Built in diagnostic system available to Service Engineer (NoA via ZAPI console plus adaptor).

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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