



**STRONG PARTNERS.
TOUGH TRUCKS.™**



PEDESTRIAN POWERED PALLET TRUCKS

P1.6 - 2.2

1600 - 2200 KG



P1.6, P1.8, P2.0, P2.2

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, stand-on, 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 ❖ ⊗	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 ₁₀ (mm)
	3.7	Tread, rear	b ₁₁ (mm)

DIMENSIONS	4.4	Lift	h ₃ (mm)
	4.9	Height drawbar in driving position min./max.	h ₁₄ (mm)
	4.15	Height, lowered	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 DIN ISO 2331 ❖	s/e/l (mm)
	4.25	Distance between fork-arms	b ₅ (mm)
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)
	4.34.1	Aisle width for pallets 1000mm x 1200mm crossways ❖	Ast (mm)
	4.34.2	Aisle width for pallets 800mm x 1200mm lengthwise ❖	Ast (mm)
4.35	Turning radius ❖	W ₉ (mm)	

PERFORMANCE DATA	5.1	Travel speed, laden/unladen	km/h
	5.1.1	Travel speed, laden/unladen, backwards	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 K _s ● ❖	(V)/(Ah)
	6.5	Battery weight ❖ ⊗	kg
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycles

DRIVE/LIFT MECHANISM	8.1	Type of drive unit	
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ADDITIONAL DATA	10.7	Sound pressure level at the driver's seat	dB(A)
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HYSTER		HYSTER	
P1.6		P1.8	
Battery		Battery	
Pedestrian		Pedestrian	
1.6		1.8	
600		600	
955		955	
1368		1368	

545		545	
841	1304	893	1452
425	120	425	120

Polyurethane		Polyurethane	
250 x 75		250 x 75	
85 x 110		85 x 110	
100 x 40		100 x 40	
1x + 2	2	1x + 2	2
461		461	
390		390	

130		130	
744	1221	744	1221
85		85	
1734		1734	
578		578	
712		712	
64	172	1156	64
560		560	
21		21	
2337		2337	
2204		2204	
1535		1535	

6.0	6.0	6.0	6.0
6.0	6.0	6.0	6.0
0.04	0.05	0.04	0.05
0.09	0.04	0.09	0.04
5.5	15.0	5.0	15.0
10.0	20.0	9.0	20.0
Electro Magnetic		Electro Magnetic	

1.25		1.25	
1.2		1.2	
Din 43535 B		Din 43535 B	
24V	250Ah	24V	250Ah
212		212	
0.384		0.384	

AC-Controller		AC-Controller	
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< 70		< 70	
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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 172 mm wide forks, Polyurethane driver and load wheels.

HYSTER		HYSTER		1.1	DISTINGUISHING MARKS
P2.0		P2.2		1.2	
Battery		Battery		1.3	
Pedestrian		Pedestrian		1.4	
2.0		2.2		1.5	
600		600		1.6	
955		955		1.8	
1440		1440		1.9	

632		632		2.1	WEIGHTS
983	1649	1032	1800	2.2	
489	143	489	143	2.3	

Polyurethane		Polyurethane		3.1	TYRES / CHASSIS
250 x 75		250 x 75		3.2	
85 x 110		85 x 110		3.3	
100 x 40		100 x 40		3.4	
1x + 2	2	1x + 2	2	3.5	
461		461		3.6	
390		390		3.7	

130		130		4.4	DIMENSIONS		
744	1221	744	1221	4.9			
85		85		4.15			
1806		1806		4.19			
650		650		4.20			
712		712		4.21			
64	172	1156	64	172		1156	4.22
560		560		4.25			
21		21		4.32			
2409		2409		4.34.1			
2276		2276		4.34.2			
1607		1607		4.35			

6.0		6.0		5.1	PERFORMANCE DATA
6.0		6.0		5.1.1	
0.04		0.05		5.2	
0.09		0.04		5.3	
4.5		15.0		5.7	
8.0		20.0		5.8	
Electro Magnetic		Electro Magnetic		5.10	

1.25		1.25		6.1	ELECTRIC ENGINE
1.2		1.2		6.2	
Din 43535 B		Din 43535 B		6.3	
24V	375Ah	24V	375Ah	6.4	
288		288		6.5	
0.384		0.384		6.6	

AC-Controller		AC-Controller		8.1	DRIVE/LIFT MECHANISM

< 70		< 70		10.7	ADDITIONAL DATA

FORKS:

P1.6-P1.8-P2.0-P2.2: 64 x 172 x 1 156 mm long

FORK SPACING:

Inside to inside: 216 mm (P1.6-P1.8-P2.0-P2.2)

Outside to outside: 560 mm

Other fork lengths and widths are optional

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.

- On P1.6 and P1.8 available batteries 150Ah, 210Ah, 250Ah.

On P2.0 available batteries 150Ah, 210Ah, 250Ah, 315Ah, 375Ah.

On P2.2 available batteries 210Ah, 250Ah, 315Ah, 375Ah.

- ❖ See "Batteries table"

⊗ These values may vary by +/- 5%

- 150Ah battery is not DIN 43635 B

BATTERY TABLE NOTES:

⊗ These values may vary of +/- 5%

➤ Battery type Din 43535 B

◆ Axle loading with LOAD = 2000Kg

✱ Polypropylene case version

▮ Includes ballast 6 kg

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.

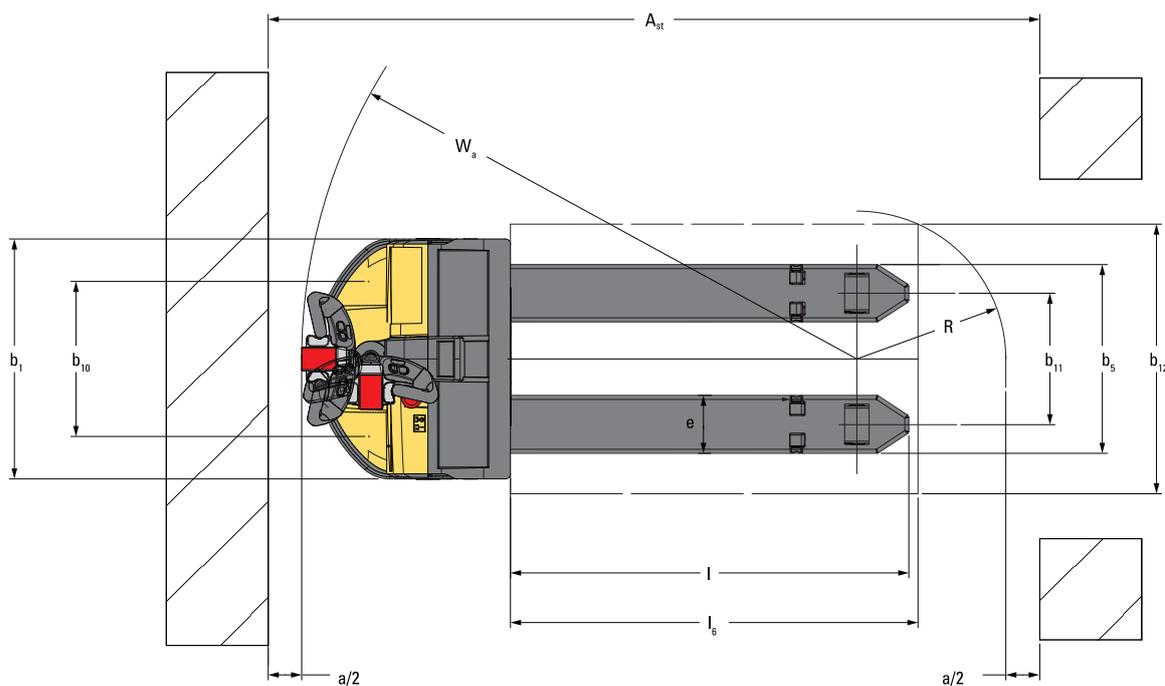
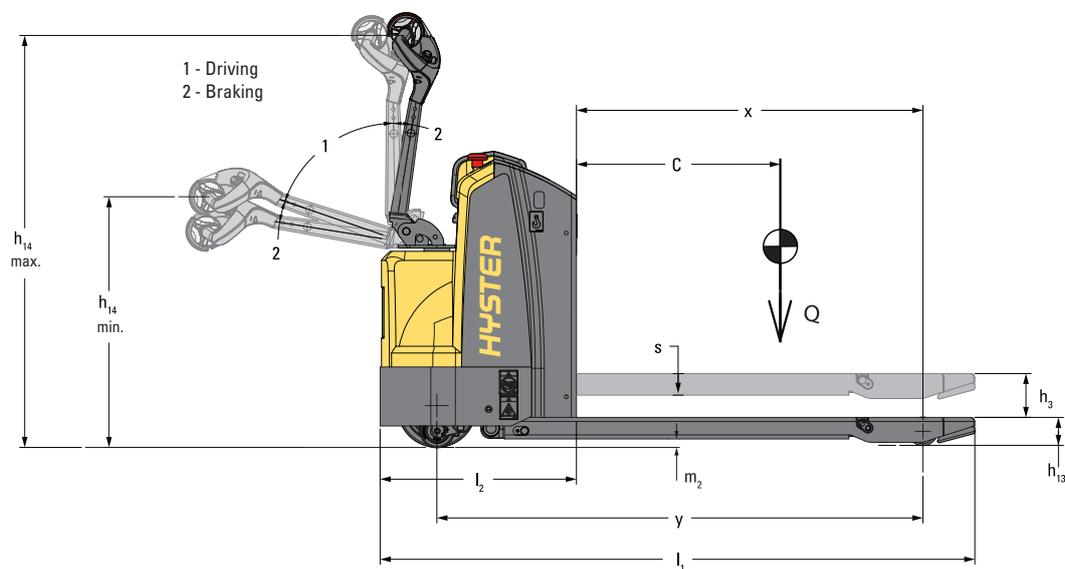
Hyster products are subject to change without notice.

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

CE Safety:

This truck conforms to the current EU requirements.

TRUCK DIMENSIONS



$$A_{st} = W_a + R + a$$

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

(see lines 4.34.1 & 4.34.2)

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

BATTERY INFORMATION

Battery compartment 375 / 315 Ah (b5 = 520mm - 560mm - 670mm)

		400	500	600	700	800	
1.6	Load centre distance	c (mm)	400	500	600	700	800
1.8	Load distance, centre of drive axle to fork	x (mm)	599	805	955	1199	1399
1.9	Wheelbase	y (mm)	084	1290	1440	1684	1884
2.1	Service weight ☉	(kg)	612	623	632	646	657
2.2	Axle loading, laden ◆	front (kg)	809	944	983	1106	1166
		rear (kg)	1803	1679	1649	1540	1491
2.3	Axle loading, unladen	front (kg)	441	471	489	513	529
		rear (kg)	171	152	143	133	128
4.19	Overall length (pedestrian)	l ₁ (mm)	1450	1656	1806	2050	2250
4.20	Length to face of forks (pedestrian)	l ₂ (mm)	650	650	650	650	650
4.22	Fork length	l (mm)	800	1006	1156	1400	1600
4.34.1	Aisle width for pallets 1000mm x 1200mm wide (pedestrian)	A _{st} (mm)	1852	1852	1852	1852	1852
4.34.2	Aisle width for pallets 800mm x 1200mm long (pedestrian)	A _{st} (mm)	2052	2052	2052	2052	2052
4.35	Turning radius (pedestrian)	W _g (mm)	1251	1457	1607	1851	2051
6.4	Battery voltage / capacity at 5 hours rate ▼	(V)/(Ah)	24V / 375 - 315Ah				
6.5	Battery weight ☉	(kg)	288				

Battery compartment 250 / 210 Ah (b5 = 520mm - 560mm - 670mm)

		400	500	600	700	800	400	500	600	700	800	
1.6	Load centre distance	c (mm)	400	500	600	700	800	400	500	600	700	800
1.8	Load distance, centre of drive axle to fork	x (mm)	599	805	955	1199	1399	599	805	955	1199	1399
1.9	Wheelbase	y (mm)	1012	1218	1368	1612	1812	1012	1218	1368	1612	1812
2.1	Service weight ☉	(kg)	525	536	545	559	570	499 ▶	510 ▶	519 ▶	533 ▶	544 ▶
2.2	Axle loading, laden ◆	front (kg)	776	910	945	1066	1123	768	771	774	909	945
		rear (kg)	1749	1626	1600	1493	1447	1731	1739	1745	1624	1599
2.3	Axle loading, unladen	front (kg)	382	409	425	447	461	363	371	378	407	424
		rear (kg)	143	127	120	112	109	136	139	141	126	120
4.19	Overall length (pedestrian)	l ₁ (mm)	1378	1584	1734	1978	2178	1378	1584	1734	1978	2178
4.20	Length to face of forks (pedestrian)	l ₂ (mm)	578	578	578	578	578	578	578	578	578	578
4.22	Fork length	l (mm)	800	1006	1156	1400	1600	800	1006	1156	1400	1600
4.34.1	Aisle width for pallets 1000mm x 1200mm wide (pedestrian)	A _{st} (mm)	2101	2216	2337	2611	2900	2101	2216	2337	2611	2900
4.34.2	Aisle width for pallets 800mm x 1200mm long (pedestrian)	A _{st} (mm)	2101	2147	2204	2379	2626	2101	2147	2204	2379	2626
4.35	Turning radius (pedestrian)	W _g (mm)	1179	1385	1535	1779	1979	1179	1385	1535	1779	1979
6.4	Battery voltage / capacity at 5 hours rate ▼	(V)/(Ah)	24V / 250 - 210Ah					24V / 250Ah ✱				
6.5	Battery weight ☉	(kg)	212					180				

Battery compartment 150 Ah (b5 = 520mm - 560mm - 670mm)

		400	500	600	700	800	400	500	600	700	800	
1.6	Load centre distance	c (mm)	400	500	600	700	800	400	500	600	700	800
1.8	Load distance, centre of drive axle to fork	x (mm)	599	805	955	1199	1399	599	805	955	1199	1399
1.9	Wheelbase	y (mm)	950	1156	1306	1550	1750	950	1156	1306	1550	1750
2.1	Service weight ☉	(kg)	449	460	469	483	494	430	441	450	464	475
2.2	Axle loading, laden ◆	front (kg)	748	881	912	1032	1086	729	862	893	1013	1067
		rear (kg)	1701	1579	1557	1451	1408	1701	1579	1557	1451	1408
2.3	Axle loading, unladen	front (kg)	328	352	367	387	400	314	337	352	371	384
		rear (kg)	121	108	102	96	94	116	104	98	93	91
4.19	Overall length (pedestrian)	l ₁ (mm)	1316	1522	1672	1916	2116	1316	1522	1672	1916	2116
4.20	Length to face of forks (pedestrian)	l ₂ (mm)	516	516	516	516	516	516	516	516	516	516
4.22	Fork length	l (mm)	800	1006	1156	1400	1600	800	1006	1156	1400	1600
4.34.1	Aisle width for pallets 1000mm x 1200mm wide (pedestrian)	A _{st} (mm)	2039	2154	2275	2549	2838	2039	2154	2275	2549	2838
4.34.2	Aisle width for pallets 800mm x 1200mm long (pedestrian)	A _{st} (mm)	2039	2085	2142	2317	2564	2039	2085	2142	2317	2564
4.35	Turning radius (pedestrian)	W _g (mm)	1117	1323	1473	1717	1917	1117	1323	1473	1717	1917
6.4	Battery voltage / capacity at 5 hours rate ▼	(V)/(Ah)	24V / 150Ah					24V / 250Ah ✱				
6.5	Battery weight ☉	(kg)	144					125				

PRODUCT FEATURES

DEPENDABILITY

- By designing the frame of the truck to better engage and support the pallet, Hyster increased the stability of the truck with a load. Hyster has integrated drive unit mounting, linkage mounting, and hydraulic cylinder mounting, improving durability and reliability for the life of the truck.
- The P1.6-2.2 combines a heavy duty steel drive frame with a highly engineered drive unit casting, making this one of the heaviest drive unit frames in the industry.
- Optimally placed as the backbone of the truck, the two create the strongest drive end in its category. The heavy duty casting replaces fabricated components for increased strength and durability, and concentrates all of the forces of the truck to an intelligent, highly engineered component.
- The cover of the P1.6-2.2 is comprised of a highly durable, engineered thermoplastic elastomer. It is flexible, resistant to chipping, and gives full protection of components.
- The charger is enclosed within the drive frame, protected from the harsh elements.
- The motor remains stationary during steering, protecting power cables from wear and strain.
- Enclosed, vertical mounted AC drive motor is easily accessed and is protected from splashes and debris.

PRODUCTIVITY

- Hyster Intelligent Lift™ enables the operator to start transporting the pallet before the unit is at full lift. The P1.6-2.2 equipped with this option will automatically lift the pallet to maximum fork height without having to continually hold the lift button. As a result of the simultaneous action of lifting and traveling, Hyster Intelligent Lift™ can reduce cycle times by up to 17%, increasing productivity.
- The Turtle function can be engaged at any position in the run zone. When the handle is in the run zone, and the turtle functionality is selected, the P1.6-2.2 latches into turtle mode which slows the speed and acceleration of the truck, giving the operator greater confidence in congested applications. When the tiller head is in the upper brake zone the operator can press and hold the turtle button to manoeuvre the truck, minimising truck profile, improving manoeuvrability inside lorry.

- P1.6-2.2 has shortened fork tip length and a low-profile bumper to provide a tight right angle turn for easier right angle stacking, equal aisle placement, and improved manoeuvrability within a lorry.
- Fork tips feature a tapered fork nose and blunt ends to allow for repositioning of pallets and enhances pallet entry. The design is ideally suited for pinwheeling applications which allows the customer to put 10% more pallets on each truck, reducing per pallet transportation costs.
- P1.6-2.2 truck features optional Hyster Intelligent Slow Down™ technology to ensure that every load remains stable. This exclusive feature recognizes when the truck is turning and intelligently reduces the truck's speed, assisting the operator through the corner. This enables the operator to manoeuvre through the warehouse with confidence, giving the P1.6-2.2 best-in-class stability.
- Reinforced frame with increased torsional stiffness and heavy duty torsion bar and linkage, together to reduce torsional twisting, making the P1.6-2.2 one of the most stable pallet trucks in the industry

ERGONOMICS

- Mid-mounted, shortened tiller head, vertically mounted drive motor assembly and our intelligently designed ergonomics make the P1.6-2.2 pallet trucks easier and more comfortable to operate.
- Our P1.6-2.2 truck has the largest run zone in the industry, enabling the truck to be operated comfortably by a wide variety of operators.
- The Turtle Function allows the truck to function with the handle in full upright position as well as in the run position for manoeuvring in tight spaces.
- The P1.6-2.2 allows the operator to see the forks, place them, and enter and exit a pallet whether it is empty or loaded. Superior visibility saves your time and increase productivity throughout your operation.
- The tiller has a light hold down effort. Little exertion is needed by the operator to move the handle to the run zone and easily maintain its position there.
- The mid-mounted tiller head placement has been designed to balance the constraints of steer effort, visibility and manoeuvrability.
- Large turntable bearing and standard rubber tyre reduce the force required to turn the steer tyre.

PRODUCT FEATURES

COST OF OWNERSHIP

- Heavy duty torsion bar ensures a more uniform loading of pins and linkage rods reducing wear and tear, increasing durability and reliability, and extending life.
- The linkage rod is comprised of a uniform square bar with welded ends for maximum strength and low maintenance.
- Bushings are the thickest bronze bushings available and provide the most contact area, resulting in improved distribution of force and increased service life. The proven "X" groove design allows for full spread of lubrication throughout bushing, minimizing wear.
- Steel drive frame enhances stability and durability, decreasing service costs and damage to loads.
- For applications where even more stability is needed, casters have been reinforced with heavy duty casting. Coil springs have been replaced with poly block which is more durable and resistant to corrosion, reducing cost and service requirements.
- Large, maintenance-free turntable steer bearings distribute and handle driving and steering forces better than small taper bearings, lowering cost of ownership.
- AC traction motor is maintenance-free and external speed sensor is easy to access, reducing cost of maintenance.

SERVICEABILITY

- The easy-to remove cover, provides convenient access to main components. Lube fittings at all major linkage points are highly accessible to ensure easy maintenance and long service life. Flag pins throughout the linkage system enable pins and bushings to be easily serviced.
- With optional on-board charger P1.6-2.2 pallet truck features a unique charge port, conveniently mounted to the front of the truck for easy access.
- The P1.6-2.2 incorporates an AC transistorized traction controller
- AC technology means no brushes to service, no wear items.
 - Requires no periodic maintenance.
 - Eliminates scheduled downtime and the cost for parts and service.
 - Eliminates the service requirements created by brush wear and dust

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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