



STRONG PARTNERS. TOUGH TRUCKS.



Four-wheel Electric Counterbalanced Lift Trucks

E1.6-2.0XN

1 600 - 2 000 kg

E1.6XN, E1.8XN, E2.0XN

| CHARACTERISTICS | 1.1 | Manufacturer | HYSTER | | HYSTER | | HYSTER | | 1.1 | CHARACTERISTICS |
|-----------------|------|--|---------------|-------|---------------|-------|---------------|-------|------|-----------------|
| | 1.2 | Model designation | E1.6XN | | E1.8XN | | E2.0XN | | 1.2 | |
| | 1.3 | Power: battery, diesel, LPG, electric mains | Battery | | Battery | | Battery | | 1.3 | |
| | 1.4 | Operation: manual, pedestrian, stand, seat, order picker | Seat | | Seat | | Seat | | 1.4 | |
| | 1.5 | Load capacity Q (kg) | 1600 | | 1800 | | 2000 | | 1.5 | |
| | 1.6 | Load centre c (mm) | 500 | | 500 | | 500 | | 1.6 | |
| | 1.8 | Load distance, centre of drive axle to forks x (mm) | 360 | | 360 | | 360 | | 1.8 | |
| | 1.9 | Wheelbase y (mm) | 1220 | | 1220 | | 1220 | | 1.9 | |
| | | | | | | | | | | |
| WEIGHT | 2.1 | Unladen weight (max. battery) | 3414 | | 3532 | | 3719 | | 2.1 | WEIGHT |
| | 2.2 | Axle loading with load, front/rear (max. battery) | 4233 | 782 | 4547 | 786 | 4881 | 838 | 2.2 | |
| | 2.3 | Axle loading without load, front/rear (max. battery) | 1506 | 1908 | 1479 | 2053 | 1473 | 2246 | 2.3 | |
| WHEELS & TYRES | 3.1 | Tyres: P= Pneumatic, V= Cushion , SE= Pneumatic Shaped Solid | V | | V | | V | | 3.1 | WHEELS & TYRES |
| | 3.2 | Tyre size, front | 18x6x12.125 | | 18x6x12.125 | | 18x7x12.125 | | 3.2 | |
| | 3.3 | Tyre size, rear | 15x5x11.25 | | 15x5x11.25 | | 15x5x11.25 | | 3.3 | |
| | 3.5 | No of wheels front/rear (x = driven) | 2X / 2 | | 2X / 2 | | 2X / 2 | | 3.5 | |
| | 3.6 | Track width, front | 788 | 939 | 788 | 939 | 808 | 906 | 3.6 | |
| | 3.7 | Track width, rear | 822 | | 822 | | 817 | | 3.7 | |
| | | | | | | | | | | |
| DIMENSIONS | 4.1 | Mast tilt, α = forward, β = back | 5 / 5 | | 5 / 5 | | 5 / 5 | | 4.1 | DIMENSIONS |
| | 4.2 | Height of mast, lowered | 2180 | | 2180 | | 2180 | | 4.2 | |
| | 4.3 | Free lift ↑ | 100 | | 100 | | 100 | | 4.3 | |
| | 4.4 | Lift height ↑ | 3390 | | 3390 | | 3390 | | 4.4 | |
| | 4.5 | Height of mast, extended + | 4006 | | 4006 | | 4006 | | 4.5 | |
| | 4.7 | Height of overhead guard ■ | 2250 | | 2250 | | 2250 | | 4.7 | |
| | 4.8 | Seat height ○ | 1161 | | 1161 | | 1161 | | 4.8 | |
| | 4.12 | Towing coupling height | 232 | | 232 | | 232 | | 4.12 | |
| | 4.19 | Overall length | 2908 | | 2929 | | 2968 | | 4.19 | |
| | 4.20 | Length to face of forks | 1908 | | 1929 | | 1968 | | 4.20 | |
| | 4.21 | Overall width (standard/wide tread) | 945 | 1091 | 945 | 1091 | 986 | 1084 | 4.21 | |
| | 4.22 | Fork dimensions | 40/80/1000 | | 40/80/1000 | | 40/100/1000 | | 4.22 | |
| | 4.23 | Fork carriage DIN 15173, Class/type A, B | 2A | | 2A | | 2A | | 4.23 | |
| | 4.24 | Fork carriage width ● | 907 | | 907 | | 907 | | 4.24 | |
| | 4.31 | Ground clearance, with load under mast | 87 | | 87 | | 87 | | 4.31 | |
| | 4.32 | Ground clearance, centre of wheelbase | 92 | | 92 | | 92 | | 4.32 | |
| | 4.33 | Aisle width with pallets 1000mm long x 1200mm wide | 3216 | | 3226 | | 3261 | | 4.33 | |
| | 4.34 | Aisle width with pallets 800mm wide x 1200mm long | 3404 | | 3417 | | 3452 | | 4.34 | |
| | 4.35 | Outer turning radius | 1644 | | 1657 | | 1692 | | 4.35 | |
| | 4.36 | Inner turning radius | 417 | | 447 | | 447 | | 4.36 | |
| | | | | | | | | | | |
| PERFORMANCE | 5.1 | Travel speed, with/without load ▼ | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 18.4 | 5.1 | PERFORMANCE |
| | 5.2 | Lifting speed, with/without load | 0.53 | 0.72 | 0.49 | 0.72 | 0.47 | 0.72 | 5.2 | |
| | 5.3 | Lowering speed, with/without load | 0.51 | 0.47 | 0.51 | 0.47 | 0.51 | 0.47 | 5.3 | |
| | 5.5 | Drawbar pull with/without load, 60 min rating | 3156 | 2862 | 3088 | 2804 | 3023 | 2745 | 5.5 | |
| | 5.6 | Maximum drawbar pull with/without load, 5 min rating | 12964 | 12422 | 12709 | 12178 | 12459 | 11924 | 5.6 | |
| | 5.7 | Gradeability with/without load, 30 minute rating | 5.8 | 7.4 | 5.6 | 7.4 | 5.4 | 7.4 | 5.7 | |
| | 5.8 | Max. gradeability with/without load, 5 minute rating | 24.2 | 34.0 | 23.5 | 33.8 | 23.2 | 33.6 | 5.8 | |
| | 5.9 | Acceleration time with/without load ▼ | 4.8 | 4.4 | 4.9 | 4.4 | 5.0 | 4.5 | 5.9 | |
| | 5.10 | Service brake | Hydraulic | | Hydraulic | | Hydraulic | | 5.10 | |
| | | | | | | | | | | |
| MOTOR | 6.1 | Drive motor, S2 60 minute rating | 18.4 | | 18.4 | | 18.4 | | 6.1 | MOTOR |
| | 6.2 | Lift motor, S3 15 % rating | 15.9 | | 15.9 | | 15.9 | | 6.2 | |
| | 6.3 | Battery according to DIN 43531/35/36 A,B,C, no | no | | no | | no | | 6.3 | |
| | 6.4 | Battery voltage/capacity at 5 hour rate | 48 | 660 | 48 | 660 | 48 | 660 | 6.4 | |
| | 6.5 | Battery weight (+/- 5%) | 943 | 1132 | 943 | 1132 | 943 | 1132 | 6.5 | |
| | 6.6 | Power consumption in accordance with VDI cycle | 4.50 | | 4.93 | | 5.35 | | 6.6 | |
| | | | | | | | | | | |
| OTHER | 8.1 | Drive Control | AC Electronic | | AC Electronic | | AC Electronic | | 8.1 | OTHER |
| | 8.2 | Operating pressure for attachments | 180 | | 180 | | 180 | | 8.2 | |
| | 8.3 | Oil flow for attachments ◇ | 20-40 | | 20-40 | | 20-40 | | 8.3 | |
| | 8.4 | Average noise level at operator's ear according to EN 12053 | 68 | | 68 | | 68 | | 8.4 | |
| | 8.5 | Towing coupling type | Pin | | Pin | | Pin | | 8.5 | |

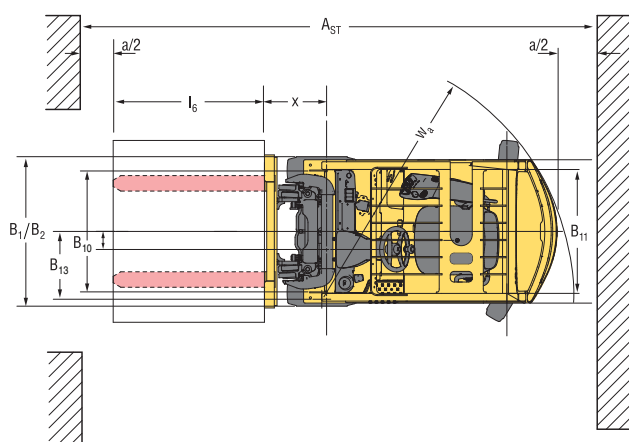
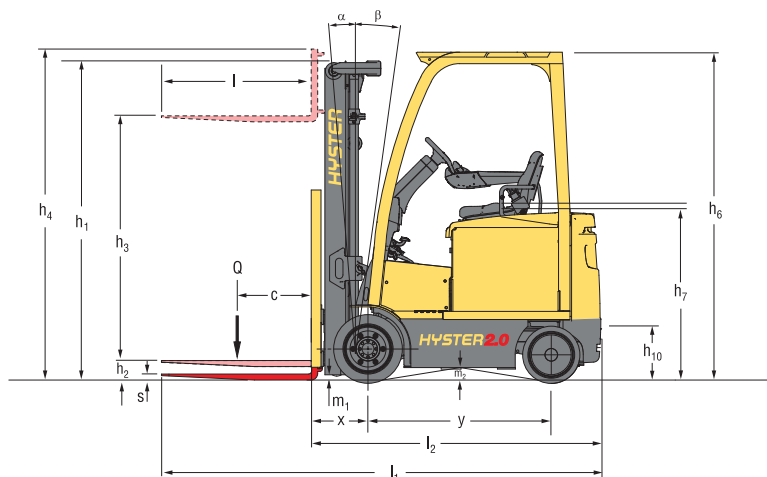
Specification data is based on VDI 2198

Equipment and weight:

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

Complete truck with 3 390 mm Vista 2-stage limited free lift mast, 910 mm hook type carriage with load backrest and 1 000 mm forks, minilevers, overhead guard and cushion tyres.

Truck Dimensions



= Centre of gravity of unladen truck

$A_{ST} = w_a + x + l_6 + a$ (see line 4.33 & 4.34)

a = Minimum operating clearance

(V.D.I. standard = 200 mm BITA recommendation = 300 mm)

l_6 = Load length

*Standard tread shown-see 3.6 for optional tread

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.

- ¶ Bottom of forks
- + Without load backrest
- h_6 subject to +/- 5 mm tolerance.
- Full suspension seat specified.
- ◆ Stacking aisle width (line 4.33 & 4.34) is based on the V.D.I. standard calculation as shown on illustration. The British Industrial Truck Association recommends the addition of 100 mm to the total clearance (dimension a) for extra operating margin at the rear of the truck.
- † Gradeability figures (lines 5.7 & 5.8) are provided for comparison of tractive performance, but are not intended to endorse the operation of the vehicle on the stated inclines. Follow instructions in the operating manual regarding operation on inclines.
- Add 43 mm with load backrest
- ▼ eLo performance setting
- ◇ Variable. Maximum flow set through dash display.

Tables key:

- ★ Add 649 mm with load backrest extension
- Deduct 649 mm with load backrest extension
- ◀ Wide tread required

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 adhere to the instructions contained in the Operating Manual.

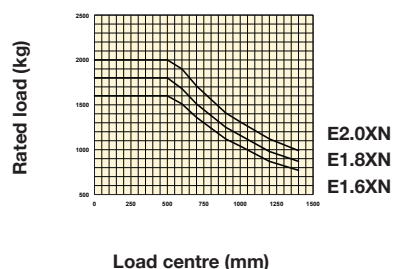
Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.



This truck conforms to the current EU requirements.

| Dimensions (mm) | E1.6XN | E1.8XN | E2.0XN |
|-----------------|--------|--------|--------|
| d | 673 | 703 | 725 |
| f | 616 | 616 | 618 |
| k | 438 | 438 | 438 |
| n | 1 046 | 1 046 | 1 046 |

Rated capacities



Load centre

Distance from front of forks to centre of gravity of load.

Rated load

Based on vertical masts up to 4 000 mm to top of forks.

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 E1.6-2.0XN

| | Maximum fork height (Top of forks) mm (h ₃ +s) | Back tilt | Overall lowered height mm | Overall extended height mm | Free lift (Top of forks) mm (h ₂ +s) |
|--|---|-----------|---------------------------------|----------------------------------|---|
| Vista 2-Stage limited free lift | 3 430 | 5 | 2 180 | 4 006★ | 140 |
| | 3 830 | 5 | 2 380 | 4 406★ | 140 |
| | 4 330 | 5 | 2 730 | 4 906★ | 140 |
| 2-Stage full free lift | 3 415 | 5 | 2 180 | 4 012★ | 1 516○ |
| Vista 3-Stage full free lift | 4 900 | 5 | 2 130 | 5 474★ | 1 466○ |
| | 5 200 | 5 | 2 280 | 5 774★ | 1 616○ |
| | 5 500 | 5 | 2 380 | 6 074★ | 1 716○ |

E1.6-2.0XN Capacity chart in kg @ 500mm Load Centre

| | Cushion tyres | | | | | | |
|--|---|--------------------|--------|--------|--------------------------|--------|--------|
| | Maximum fork height (Top of forks) mm (h ₃ +s) | Without Side-shift | | | With integral side-shift | | |
| | | E1.6XN | E1.8XN | E2.0XN | E1.6XN | E1.8XN | E2.0XN |
| Vista 2-Stage limited free lift | 3 430 | 1 600 | 1 800 | 2 000 | 1 600 | 1 790 | 2 000 |
| | 3 830 | 1 600 | 1 800 | 2 000 | 1 600 | 1 780 | 1 990 |
| | 4 330 | 1 600 | 1 760 | 1 950 | 1 560 | 1 690 | 1 920 |
| 2-Stage full free lift | 3 415 | 1 600 | 1 800 | 2 000 | 1 600 | 1 790 | 1 980 |
| Vista 3-Stage full free lift | 4 900 | 1 520● | 1 670● | 1 800● | 1 520● | 1 650● | 1 810● |
| | 5 200 | 1 400● | 1 460● | 1 560● | 1 410● | 1 470● | 1 570● |
| | 5 500 | 1 240● | 1 280● | 1 360● | 1 240● | 1 280● | 1 360● |

E1.6-2.0XN Capacity chart in kg @ 600mm Load Centre

| | Cushion tyres | | | | | | |
|--|---|--------------------|--------|--------|--------------------------|--------|--------|
| | Maximum fork height (Top of forks) mm (h ₃ +s) | Without Side-shift | | | With integral side-shift | | |
| | | E1.6XN | E1.8XN | E2.0XN | E1.6XN | E1.8XN | E2.0XN |
| Vista 2-Stage limited free lift | 3 430 | 1 530 | 1 700 | 1 900 | 1 450 | 1 610 | 1 800 |
| | 3 830 | 1 520 | 1 690 | 1 890 | 1 440 | 1 600 | 1 790 |
| | 4 330 | 1 510 | 1 640 | 1 840 | 1 430 | 1 560 | 1 750 |
| 2-Stage full free lift | 3 415 | 1 530 | 1 880 | 1 880 | 1 450 | 1 610 | 1 790 |
| Vista 3-Stage full free lift | 4 900 | 1 440● | 1 570● | 1 780● | 1 360● | 1 480● | 1 680● |
| | 5 200 | 1 400● | 1 460● | 1 560● | 1 320● | 1 440● | 1 570● |
| | 5 500 | 1 240● | 1 280● | 1 360● | 1 240● | 1 280● | 1 360● |

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

Dependability

- New robust mast design provides excellent visibility and reliable, high performance lifting.
- Strong chassis construction and reliable, long-lasting components deliver excellent durability and stability, increasing driver confidence and enhancing productivity.
- AC motor technology on traction and hoist, with built in thermal management system, allows the truck to work reliably over long runs and in demanding work cycles, reducing downtime significantly.
- The electrical system features a CANbus communications network and Hall Effect sensors for increased reliability.
- IP65 protection of controls prevents ingress of water and dust particles, reducing the probability of truck downtime.

Productivity

- AC traction motor delivers smooth acceleration, fast travel speeds and rapid direction changes with excellent torque performance. This is combined with regenerative braking to deliver efficient load handling in the toughest of applications.
- Compact dimensions deliver tight turning circles and class leading manoeuvrability when space is restricted, such as when working in aisles or congested loading/unloading bays or for application such as block stacking 1000mm loads.
- Powerful 48 V battery, offering extended battery shift life and optional side battery removal, delivers superb traction and hoist performance, for fast, efficient, uninterrupted load handling and simple fast recharging keeps trucks on the move.
- Selectable performance settings (HiP – High Performance & eLo – Energy Efficient) enable the truck to be configured to the varying needs of the application, delivering the right balance of performance and energy efficiency

Ergonomics

- The ergonomically designed operator compartment provides a comfortable and highly productive environment for the operator, offering generous foot space and easy on/off access.
- Low noise and whole body vibration combined with a full suspension seat - with 80 mm suspension travel and a range of adjustments - ensures the operator remains comfortable over long shifts.
- The fully adjustable tilt steering column - with telescopic and memory tilt options - allows the operator to get on and off the truck quickly and easily throughout the shift, ensuring maximum comfort and increased productivity.
- The mini-lever module armrest with built in hydraulic controls, integrated directional control, emergency off switch and horn, offers the ultimate in comfort and control. Alternatively, seat-side manual levers also deliver easy load handling.
- A 'heads-up' display keeps the driver's field of vision clear but provides him with 'at a glance' information on truck operating conditions or performance settings.
- A rear grab handle with integrated horn for frequent reverse travel and an automatic park brake also contribute to ease of operation and excellent driver comfort.

Low Cost of Ownership

- Extended shift life reduces the need for battery recharging, saving time and money and increasing uptime.
- The Vehicle System Manager (VSM) allows adjustment of truck performance parameters and monitors key functions, leading to application matched performance and minimum downtime.
- Fast delivery of diagnostic information enables precise troubleshooting and easy maintenance planning and leads to lower operating costs.

Serviceability

- Standard 1 000 hour service interval.
- Service access is fast and unrestricted, with an easily removable two-piece floor plate providing access to brake fluid, hydraulic filter and valves, VSM, tilt cylinders and automatic park brake release.
- Battery is easily accessible thanks to the well designed hood, which opens to a wide angle with minimum effort.
- Access to diagnostic information via the display or plug-in point on the steering column allows service technicians to monitor truck operations and plan maintenance requirements.
- LED lights are designed to last the lifetime of the truck

Options include:

- Mini-levers with travel and hydraulic functions integrated into the armrest
- Steering column with telescopic adjustment and memory tilt.
- Return to Set Tilt
- Integral sideshift
- Interlock function for clamping attachments.
- Load weight indicator
- Impact sensor
- Mirrors
- Back up alarm
- Side battery removal
- Monotrol pedal
- Light kits
- Keyless start & operator password
- Programmable maintenance reminder
- Daily operator checklist
- System monitoring
- Drive-in racking overhead guard



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.



Hyster Europe

Flagship House, Reading Road North, Fleet, Hants GU51 4WD, England.

Tel: +44 (0) 1252 810261



www.hyster.eu



infoeurope@hyster.com



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