



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

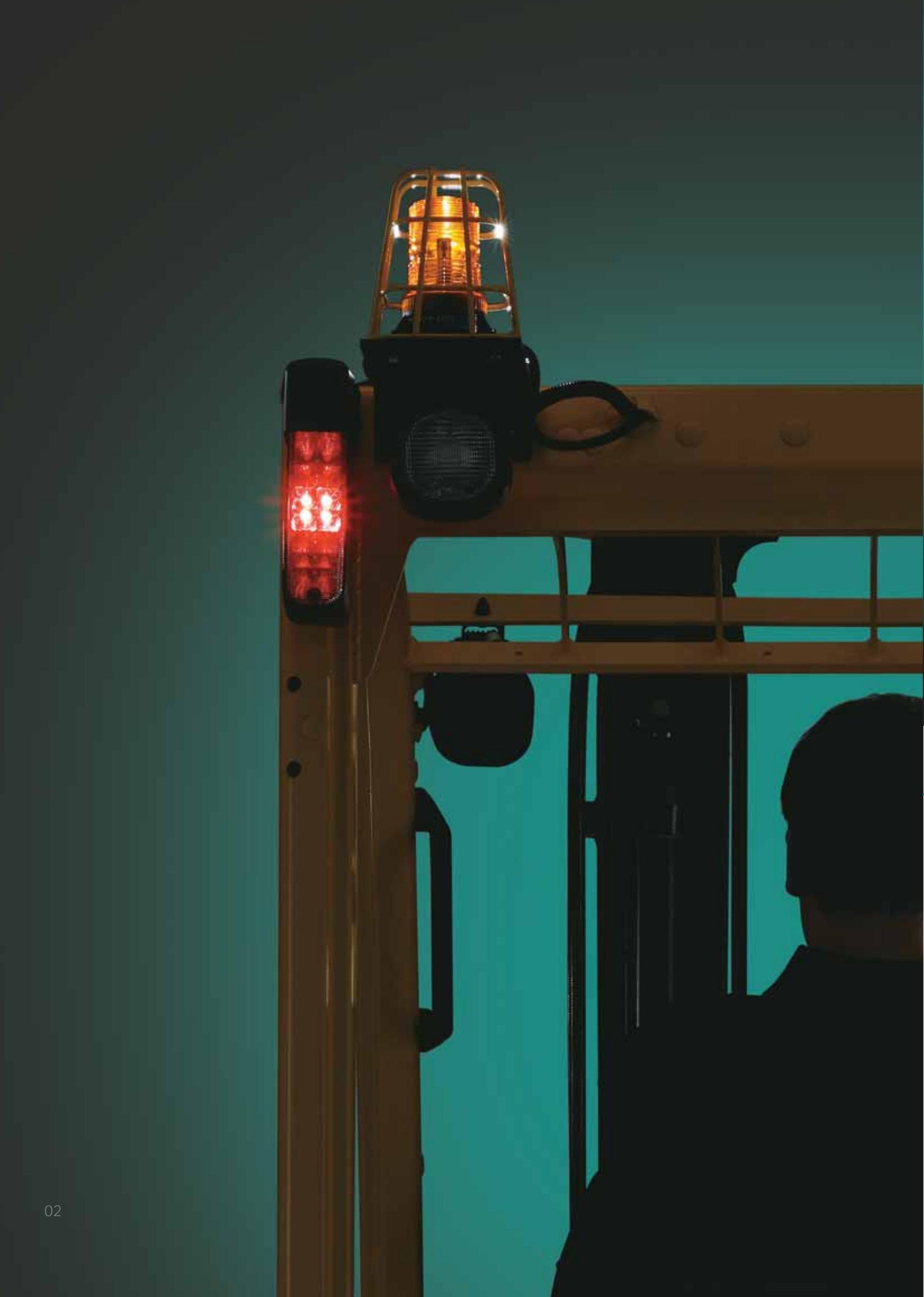


## **ELECTRICS RANGE**

**Counterbalanced Lift Trucks**

**1 000-5 500 kg**







## Electric Efficiency in the Palm of your Hand

**Get More:**  
**Dependability**  
**Low Cost of Ownership**  
**Ergonomics**  
**Productivity**  
**Serviceability**

### Contents

04-05	Hyster Electrics: Working Around the Clock
06-07	Get More Solutions from Strong Partners. Tough Trucks.
08-09	Product Highlights
10-11	Get More e-Balance
12-13	Throw Some Light on Low Cost of Ownership
14-15	Get More Driver Productivity
16-17	Get More Performance
18-19	Get More Dependability and Serviceability
20-21	Get More Choice (product options)
22-23	Get More Electric - Range Overview

## Hyster Electric Forklifts Day or Night, Indoors or Out, 24/7

The latest generation of Hyster electric forklifts are at the forefront of technology in terms of their ability to deliver low cost of ownership and low energy consumption. They offer a total solution to the needs of a vast array of industries and applications, where clean environmental conditions are critical. They work indoors or outdoors, day or night, even 24 hours a day.

**Hyster Electrics deliver the right energy balance to your operation - this means they can match your need for performance with your need to save energy to give you the most cost effective solution.**

**In addition, the new Hyster "XN" range of Electric forklift trucks offer:**

Excellent choice, with models from 1.5-3.5 tonnes and a variety of model configurations to suit your application.

Enviably manoeuvrability for fast turnaround in congested loading bays or narrow aisles in warehouses.

Ergonomic innovation with driver features that deliver unsurpassed productivity.

Environment friendly, zero emission energy.

Extended battery shift life, a choice of battery configurations and side battery extraction manages energy efficiently.

Your complete solution includes a commitment to the highest quality from a global company with extensive resources, including the most comprehensive dealer support network in the industry.





## Get More Solutions

We know that our customers don't want lift trucks. They want a complete solution to their materials handling needs. They want high productivity and throughput without the worry, leaving them to concentrate on their core business.

The new "XN" range of Hyster Electric forklift trucks contribute significantly to our total solution to your needs. They deliver energy efficient performance that backs up our low cost of ownership promise.

With Hyster you get the benefit of the global resources of a world leading supplier combined with expert advice, financial solutions and world class customer support from our extensive dealer network.

Whether you need support in one location or need to address the complexities of multiple sites across international boundaries, Hyster has the capability to keep your business running smoothly.

**Get More Solutions.  
Get in Touch with  
Strong Partners and  
Tough Trucks.**

[www.hyster.com/europe](http://www.hyster.com/europe)





## Product Highlights

The new generation Hyster Electrics, like all Hyster products are designed to deliver supreme dependability and low cost of ownership.





- 1 LED Lights**  
Bright and longer lasting lights; including front and rear working lights, side markers, direction indicators, reverse, brake and rear lights.
- 2 Operator compartment**  
Ergonomically designed operator compartment enhances overall productivity. Features include: increased foot space and optimised step height for easy entry and exit; fully adjustable, full suspension seat with low whole body vibration levels; infinitely adjustable steering column with memory tilt and telescopic steering wheel and low effort e-hydraulic controls.
- 3 Swivel seat and reverse grab handle with integrated horn button**  
Ideal for any application where reverse travel is essential.
- 4 Zero turning radius steer axle**  
For increased stability over uneven surfaces and superb manoeuvrability in tight aisles.
- 5 Overhead guard**  
The unique grid style pattern maintains high visibility whilst offering the highest operator protection.
- 6 Seat-side 2-way adjustable, comfort armrest with integrated directional control, horn and emergency stop button.** For enhanced comfort and control, reducing operator fatigue.
- 7 Ergonomically orientated Touchpoint™ Mini-levers**  
With contoured palm rest for the ultimate in handling ease.
- 8 Pacesetter VSM™ (Vehicle System Manager)**  
All vehicle systems are managed electronically to optimise performance and significantly increase overall reliability. Enhances diagnostic capabilities for maximum uptime and enables customisation of truck performance to suit application needs.
- 9 Removable two-piece floor plate**  
Provides excellent service access. A non-slip moulded rubber floor mat reduces noise and vibration in the operator compartment.
- 10 Oil immersed brakes**  
The disc brakes are housed in a sealed unit protecting them from contamination and damage, especially important when working in hostile environments. This results in extraordinary truck dependability, virtually eliminating maintenance and repair costs.
- 11 Side battery extraction**  
The fastest and easiest way to manage battery changing.
- 12 Exclusive Vista™ mast**  
The high strength design improves capacity retention at high height and offers exceptional through channel visibility. A 'Return to set tilt' feature is available with the mini-lever control package.
- 13 'Heads-up' display**  
Quick and easy at a glance display frees up driver field of vision.
- 14 HSM – Hyster Stability Mechanism™**  
The maintenance-free mechanical stability system reduces truck lean when travelling over obstacles, increasing driver confidence and productivity.



## Get the right Energy Balance

The new Hyster Electric trucks can offer you the optimum e-Balance (Energy Balance) delivering the most cost effective truck on the market.

### What is e-Balance?

It means giving you no more or no less power than you need. The perfect e-Balance is where you get the maximum productivity for the minimum energy consumption.

A variety of configurations and truck settings enable the truck to be

tailored to your precise application needs, which means lowest energy consumption, competitive productivity and the lowest overall cost of operation.

### The Lowest Energy Consumption

The JXNT and JXN ranges consume the least energy, compared with other trucks in their class.

The new "XN" range of forklifts have been tested according to VDI 2198 against key competitors and are clear winners on energy consumption.

Saving energy not only lowers your cost of operation but also reduces carbon emissions, which is beneficial to the environment.

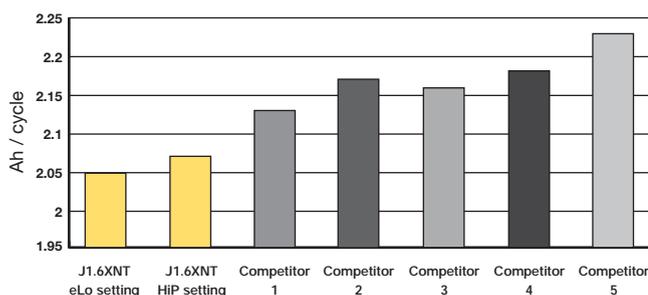
You can choose from two levels of performance in one truck

- › Energy Low setting (eLo)
  - Gives class leading lowest energy consumption whilst maintaining competitive performance
- › High Performance setting (HiP)
  - Maximises performance of truck
  - The most productive truck on the market.



### Lowest Energy Consumption

- › According to the VDI 2198 standard test, the JXNT range provides the lowest energy consumption in the market
- › Similar tests with the J2.2-3.5XN Advance model illustrated that when programmed with the eLo setting the truck use 20% less energy than the competitor average and with the HiP setting it uses 16% less energy.



VDI 2198 (2002) Test Cycle (JXNT)

### Truck Operators are Key to e-Balance

- › Innovative, class leading ergonomic features create harmony between the operator and the truck (see pages 14-15)
- › Truck settings customized to operator preference or ability allow them to handle the truck most effectively

### System Efficiency Influences e-Balance

- › Drive train efficiency and intelligent control of current to motors are just some examples of system efficiency that lead to improved efficiency and e-Balance.



## Throw Some Light on Low Cost of Ownership

The cost of running your materials handling fleet is an important factor in the profitability of your business. Throw some light on the life-time costs of your Hyster electric fleet and see the difference it can make.

Hyster Electric trucks contribute to low cost of ownership by delivering extraordinary dependability, driver productivity, low energy consumption, low maintenance costs and serviceability.

### Operator Costs

Operator costs alone can account for around 80% of the total cost of owning and running an electric lift truck. So an increase in driver productivity, plus a reduction in overall running costs of the fleet can make a significant difference to your business.

The latest ergonomic innovations make your drivers more comfortable and productive and reduce cycle times.

### Dependability

Dependable transmissions with limited servicing requirements and reliable hydraulics and electronic systems ensure maximum uptime and reduced operating costs.



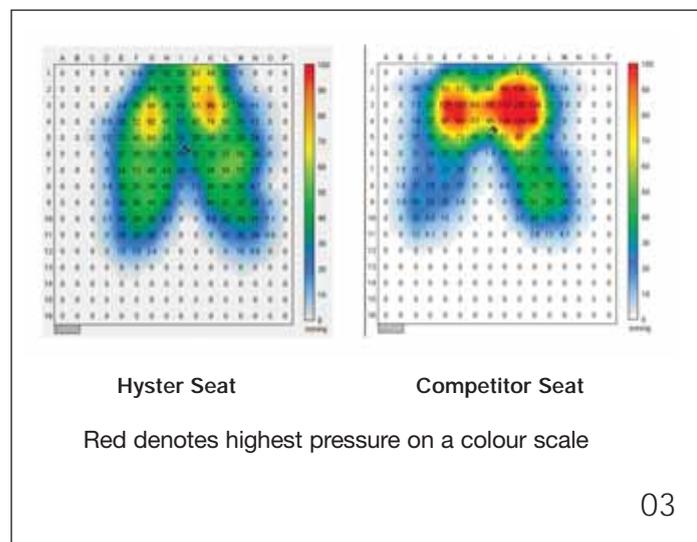
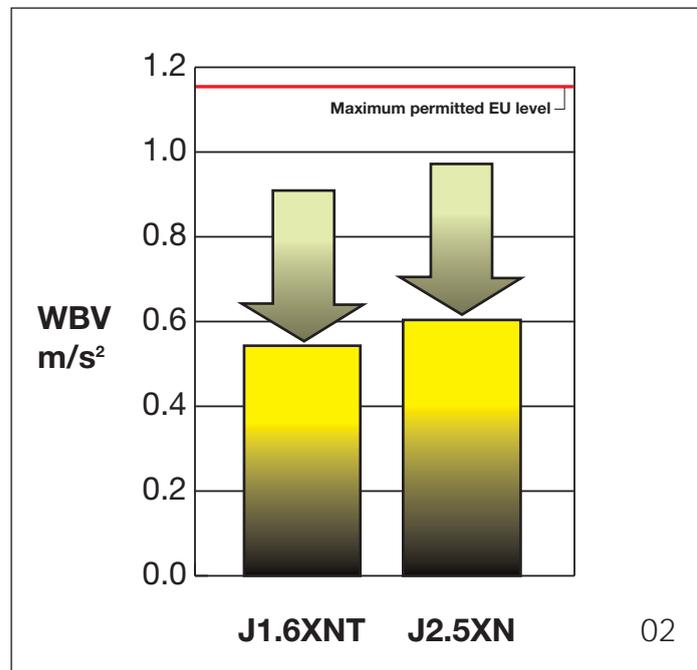
### Energy Management

- › A wide range of models and configurations from 1.5 to 3.5 tonnes allows you to match the truck to your application.
- › E-Balance delivers the optimum truck performance and throughput for your operation at the lowest cost.
- › The lowest energy consumption of any trucks in their class.
- › Side extraction battery removal means improved energy management.

### Low Maintenance

- › Long term reliability means lower maintenance costs and 1000 hour service intervals.
- › High quality, more durable parts, including brushless, enclosed AC traction motors save time and money.

Day or night, your trucks run for longer, keeping your running costs down and delivering faster throughput to light up your bottom line.



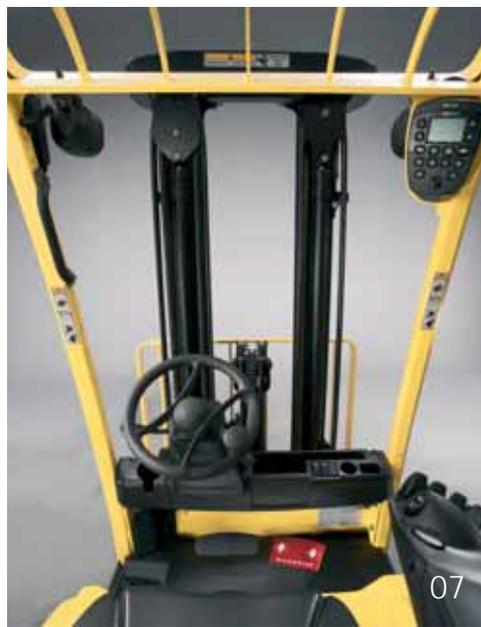
## Get More Driver Productivity

Hyster electric forklifts are alive with ground breaking ergonomic features that deliver maximum operator comfort and control. The result is high driver confidence that inspires increased energy efficiency and class-leading productivity.

### Key features:

- 01 Driver Comfort
  - > Fully adjustable, full suspension seat for superior comfort.
  - > Suspension setting is easily adjustable with clear view weight indicator.
  - > Dual armrest with built-in minilever module, or alternative seat side manual levers.
  - > Generous foot space and pedal arrangement.
  - > Optional swivel seat (12° to the right and 5° to the left) ensures comfortable driving posture when travelling in reverse.

02 Extensive testing (EN 13059 test) has demonstrated how the seat reduces whole body vibration levels (WBV). The J1.6XNT recorded a WBV of 0.55 m/s<sup>2</sup> and the J2.5XN a WBV of 0.6 m/s<sup>2</sup>, both 100% less than EU permitted maximum. The reduction in WBV significantly reduces operator fatigue and optimises productivity.



03 Graph shows the results of a pressure mapping comparison between the Hyster seat and a leading competitor's seat, which demonstrates that the Hyster seat offers class leading comfort. (Red denotes highest pressure on a colour scale)

04 Fully adjustable steering column with both tilt and telescopic adjustments.

05 Synchronised steering ensures that the steering knob always defaults to a position selected by the operator, when travelling in a straight line.

06 New heads-up display, increases the driver's field of vision.

07 1.5 & 1.6T models are available with a Vista Plus mast, with 300mm between mast channels.

08 A reverse grab handle with integrated horn button enhances driver comfort and truck control when travelling in reverse.

09 Easy to use 3-point entry design

10 A choice of weather protection options promotes a comfortable working environment, whatever the conditions.



## Get More Performance

Many applications require trucks to run for 2 or even 3 shifts a day, operating around the clock. That means sustained productivity and the number of loads that can be moved per operator, per hour, is a key measure for all operations.

Hyster delivers high levels of productivity by providing robust, user friendly trucks, designed to give optimum performance. With new controllers, powerful AC motors,

superb ergonomics and best-in-class manoeuvrability they can perform for longer and use less power.

### Get More...

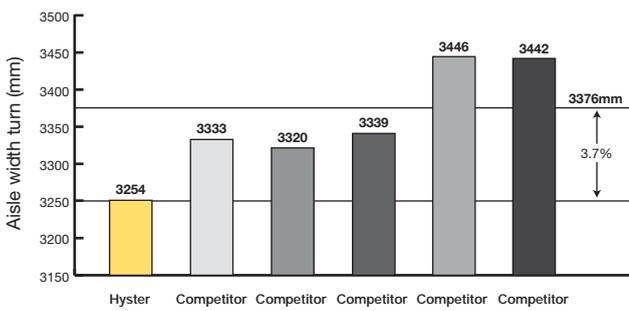
- › Powerful performance with AC technology
- › Fast acceleration and travel speeds
- › Fast lifting and lowering speeds
- › Energy efficiency so your trucks work harder for longer
- › Superb manoeuvrability for fast handling in congested loading bays or narrow aisles. The J1.6-2.0XN zero turning radius steer axle gives four wheel truck users similar manoeuvrability to a three wheel truck
- › A range of programmable settings enable you to adjust truck performance to suit your driver or your application, speeding up the time it takes to get the job done.



### Manoeuvrability

#### Aisle width comparison 1.6T, 3-wheel, short wheelbase

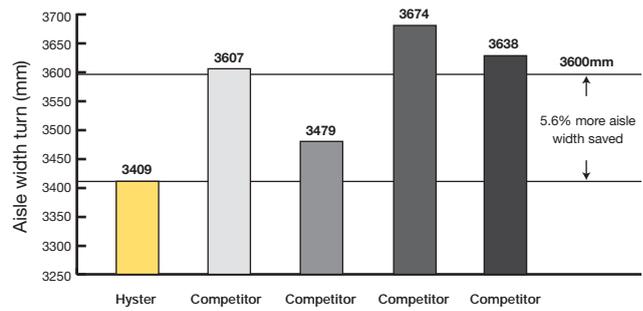
- › Compact turning radius for fast manoeuvring in tight or congested spaces.
- › A tight turning radius speeds up load handling.



Euro Pallet 800 x 1200mm

#### Aisle width comparison 1.6T, 4-wheel, medium wheelbase

- › Hyster Zero Turning Radius steer axle provides '3 wheel truck manoeuvrability' on a 4 wheel truck.
- › A tight turning radius speeds up load handling.



Euro Pallet 800 x 1200mm



## More Dependability and Serviceability

The Hyster “XN” range of electric forklift trucks have been developed using the highest quality research and development, testing and manufacturing resources in the world. They have the pedigree of the only global supplier of materials handling equipment, with over 80 years of experience, so you can rely on performance that lasts.

### Get More Dependability

- › A strong, compact chassis construction
- › Robust mast design with excellent visibility
- › Unique design steer axle
- › Advanced thermal protection
- › VSM (Vehicle System Manager) and CANbus communication system detect faults and can anticipate maintenance needs

- › High level of protection against ingress of water and dust particles

### More Serviceability

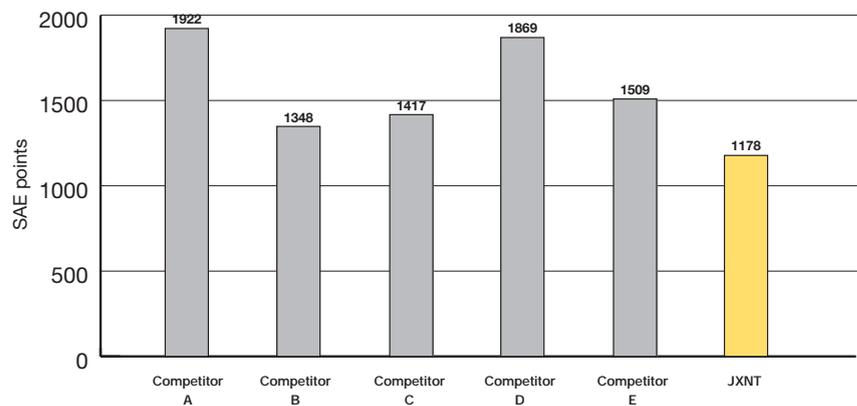
Hyster electric trucks have the best serviceability in the industry, with long service intervals. When periodic maintenance is required, access to all components is quick and easy.

### Get More Serviceability

- › Advanced information display, facilitates fault finding and quick diagnostics
- › VSM manages and monitors all truck systems
- › Excellent service access
- › Maintenance free components



### Best Serviceability



- › Reduced maintenance transmissions
- › Oil-immersed brakes
- › AC motors on traction and hoist
- › Hall effect sensors
- › CANbus technology
- › A start up checklist and pin code access allow precise management and control of the fleet.

Serviceability	Hyster J1.6-2.0XN	Comp 1	Comp 2	Comp 3
Best in class serviceability (SAE) score	+	-	-	-
Maintenance free transmission	+	-	-	-
Diagnostics through dash display	+	+	+	+
Hydraulic fluid tank in rear compartment	+	-	-	-
Easily removable floor plate	+	-	-	-

\*Comparisons according to SAE (Society of Automotive Engineers) J817



# Get More Choice

## J1.5-2.0XNT - Product Range

Model	Capacity	Wheelbase			Side Extraction Option	High Chassis Option
		S	M	L		
J1.5XNT	1500	•			•	
J1.6XNT	1600	•	•	•	•	•
J1.8XNT	1800		•	•	•	•
J2.0XNT	2000		•	•	•	•

**S** = Short wheel base   **M** = Medium wheel base   **L** = Long wheel base

Battery Option			
Wheelbase	Length l <sub>2</sub>	Battery Compartment	Standard Din 43531
S	1 805 mm	546 mm	460 - 500 Ah
M	1 901 mm	642 mm	575 - 625 Ah
L	2 004 mm	750 mm	690 - 750 Ah

**DIN 43531 A boxes possible with side extraction**

Wheelbase	Length l <sub>2</sub>	Battery Compartment	Custom Battery on High Chassis
S	1 805 mm	546 mm	595 - 700 Ah
M	1 901 mm	642 mm	625 - 750 Ah
L	2 004 mm	750 mm	690 - 900 Ah

**DIN 43531 A boxes possible with side extraction**

## J1.6-2.0XN - Product Range

Model	Capacity	Wheelbase			Side Extraction Option	High Chassis Option
		S	M	L		
J1.6XN	1600		•	•	•	
J1.8XN	1800		•	•	•	
J2.0XN	2000			•	•	•

**S** = Short wheel base   **M** = Medium wheel base   **L** = Long wheel base

Battery Option			
Wheelbase	Length l <sub>2</sub>	Battery Compartment	Standard Din 43531
M	1 981 mm	642 mm	575 - 625 Ah
L	2 088 mm	750 mm	690 - 750 Ah

**DIN 43531 A boxes possible with side extraction**

Wheelbase	Length l <sub>2</sub>	Battery Compartment	Custom Battery on High Chassis
L	2 088 mm	750 mm	900 Ah

**DIN 43531 A boxes possible with side extraction**

## J2.2-3.5XN - Product Range

Model	Capacity	Wheelbase		Side Extraction Option
		S	L	
J2.2XN	2200	•		•
J2.5XN	2500	•	•	•
J3.0XN	3000		•	•
J3.5XN	3500		•	•
S = Short wheel base L = Long wheel base				
h <sub>6</sub> is 2196 mm on Standard Truck. h <sub>6</sub> is 2297 mm on Side Extraction				

Battery Option			
Wheelbase	Length l <sub>2</sub>	Battery Compartment	Standard Din 43536 A
S	2321 mm	717 mm	560 - 620 Ah
L	2465 (2.5-3.0T) & 2555 (3.5T) mm	861 mm	700 - 775 Ah

**DIN batteries only.**

## Highlights & Options

### Cost of Ownership Highlights & Options

- › Sealed AC motor and controllers
- › Oil immersed disc brakes
- › High thermal capacity
- › VSM (Vehicle System Manager) for diagnostics and control
- › LED lights
- › Ease of service access
- › Extended service intervals

### Ergonomics Highlights & Options

- › 80mm full suspension seat with armrests
- › TouchPoint™ mini-levers (optional) and armrest with integrated directional control and horn
- › Manual, seat side, hydraulic levers with integrated forward/reverse direction selector.
- › Swivel seat
- › Reverse grab handle with integrated horn
- › Contoured, infinitely adjustable steering column
- › Telescopic steering wheel adjustment, synchronous steering, memory tilt (optional)
- › Dashboard with clipboard holder, storage pockets, beverage holder, optional 12V power outlet. Front wiper motor incorporated in cowl on Cab version.
- › Weather protection (options):
  - Front / Top or Front/Top/Rear with PVC doors
    - Full cab
    - Heater / Demister Option (full cab only)
    - Headliner (with radio and speaker slots and reading light)
    - Wiper washer bottle mounted for easy access
    - Cowl mounted front wiper motor
- › Automatic park brake
- › Auto-regenerative braking

- › Monotrol pedal
- › Heads up display
- › Side battery extraction
- › Vista+ masts on 1.5 and 1.6 tonne trucks
- › Hyster Stability Mechanism

### Productivity Highlights & Options

- › Dual AC drive
- › Auto regenerative braking
- › AC hoist motors
- › ZTR (Zero turning radius) steer axle on 4-wheel J1.6-2.0XN models
- › Choice of battery capacities
- › Compact chassis lengths
- › Side extraction battery capability
- › eLo or HiP settings
- › Low energy consumption

### Dependability Highlights & Options

- › AC motors on traction and hoist
- › Low maintenance transmission
- › Oil immersed disc brakes
- › Hall effect sensors
- › Controllers protected against ingress of water and debris
- › LED work lights
- › H-class insulation on drive motors
- › External encoders
- › Intelligent cooling
- › Steel covers
- › Durable trim

## Get More Electric - Range Overview

Hyster has been an established player in the electric counterbalanced market for almost forty years and in the warehouse equipment market for over 10 years.

The electric counterbalanced offering includes a comprehensive range of models from 1 to 5.5 tonnes, including both pneumatic and solid tyre products. We also offer both front and rear wheel drive designs in the 3-wheel electric 1 to 2 tonne category.



### J1.5-2.0XNT

**Load Capacity: 1 500-2 000 kg @ 500mm**

- › Modern design with 3 wheel configuration
- › Dual steer axle, front wheel drive
- › E-hydraulic control options
- › Tight aisle widths
- › Best in class energy consumption
- › High visibility mast



### J1.6-2.0XN

**Load Capacity: 1 600-2 000 kg @ 500mm**

- › Modern design with 4 wheel configuration
- › E-hydraulic control options
- › Zero turning radius steer axle
- › IC performance in an electric truck



### J2.2-3.5XN

**Load Capacity: 2 200-3 500 kg @ 500mm**

- › 4-wheel, modern design
- › AC drive and hydraulic motors
- › E-hydraulic control options
- › Hyster Stability Mechanism
- › Zero turning radius steer axle

Some products shown may feature optional equipment



### A1.00-1.50XL

Load Capacity: 1 000-1 500 kg @ 500mm

- › Economy truck with 3-wheel configuration
- › Rear wheel drive
- › Variable wheelbase
- › Auto-regenerative braking



### E1.50-2.00XMS

Load Capacity: 1 500-2 000 kg @ 500mm

- › 4-wheel, conventional battery box design
- › Cushion tyres
- › AC drive and hydraulic motors
- › Auto-regenerative braking
- › Compact dimensions
- › E-hydraulic control options



### E2.2-3.5XN

Load Capacity: 2 200-3 500 kg @ 500mm

- › 4-wheel, conventional battery box design
- › Cushion tyres
- › AC drive and hydraulic motors
- › E-hydraulic control options
- › Hyster Stability Mechanism™



### E3.50-5.50XL

Load Capacity: 3 500-4 000 kg @ 500mm

Load Capacity: 4 500-5 500 kg @ 600mm

- › 4-wheel, conventional battery box design
- › Cushion tyres
- › AC drive and hydraulic motors
- › Auto-regenerative braking
- › Compact, heavy duty handling truck
- › High lift height
- › E-hydraulic control options

# 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

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

Tel: +44 (0) 1252 810261



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



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



[/HysterEurope](https://www.facebook.com/HysterEurope)



[@HysterEurope](https://twitter.com/HysterEurope)



[/HysterEurope](https://www.youtube.com/HysterEurope)



HYSTER  and FORTENS are registered trademarks in the European Union and certain other jurisdictions.  
MONOTROL is a registered trademark, and DURAMATCH and  are trademarks in the United States and in certain other jurisdictions.  
Hyster products are subject to change without notice. Lift trucks illustrated may feature optional equipment.  
A division of NACCO Materials Handling Limited.