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**COUNTERBALANCED ELECTRIC
PNEUMATIC TIRE FORKLIFT
PRODUCT BROCHURE**

J80-120XN SERIES



J80-120XN SERIES

WHO SAYS ELECTRIC ISN'T AS TOUGH AS IC?

When you're known for building some of the toughest internal combustion lift trucks on the market, you don't make excuses for electric. You work harder. And smarter. The result is the J80-120XN series from Hyster Company, available in 8,000, 9,000 and 10,000 lb short wheelbase capacities and 10,000, 11,000 and 12,000 lb long wheelbase capacities. This electric truck is designed with zero emissions, enhanced ergonomics and industry leading innovations that excel indoors and outdoors. It's built to conquer tight deadlines and tough applications whenever, wherever the job calls.



LOW COST OF OWNERSHIP

By using AC motors and transistor controller technology for 100% of its traction and hydraulic systems, the J80-120XN series reduces maintenance requirements. Plus, its standard automatic park brake eliminates the maintenance and adjustments required of a manual park brake system, which means a lower cost of operations.

Superior Serviceability

- CANbus communications simplify wiring and serviceability.
- State-of-the-art on-board diagnostics help reduce repair time and minimize expensive parts swapping.
- Direct access for service is a key element for easier daily checks or service resulting in improved productivity.
- Easy battery access is provided via the gas spring-assisted hood and quick release handle.

Unrestricted Service Access

- Two-piece floor plate and side plates can be easily removed for access to:
 - Brake fluid reservoir
 - Hydraulic filter
 - Hydraulic valve
 - Pacesetter VSM
 - Tilt cylinders
- Lift-out floor plates require no tools for quick and easy daily operator checks.
- Removable side plates provide additional access to all major truck components.

Vehicle System Manager

All vehicle systems are managed electronically to optimize performance and significantly increase overall reliability, enhancing diagnostic capabilities to maximize uptime. The Pacesetter VSM enables customization of truck performance to suit application needs.

- Communicates with motor controllers and operator display via CANbus.
- Monitors truck functions and stores data.
- Provides advanced thermal management and truck diagnostics.
- Interfaces service and diagnostic tools.
- Interfaces all operator control devices.
- Interfaces all on-board sensors.



Brushless AC Technology

- Eliminates motor brushes.
- Requires no periodic maintenance.
- Eliminates scheduled downtime and the cost for parts and service.
- Eliminates the service requirements created by brush wear dust.
- No directional contactors; only one power contactor for traction and one for hydraulics.

LOW MAINTENANCE. HIGH PERFORMANCE.

You've got enough to worry about. The J80-120XN series gets to work and stays working for uptime you can rely on. The J80-120XN series has 80 years of materials handling experience behind it, and it shows.

Advanced Thermal Management System

- Advanced thermal management system continuously monitors the critical truck functions, while protecting the componentry by automatically adjusting truck performance.
- A heat sink is used to draw heat away from the motor controllers. Thermostatically controlled fans cool the heat sinks.

World-Class Dependability

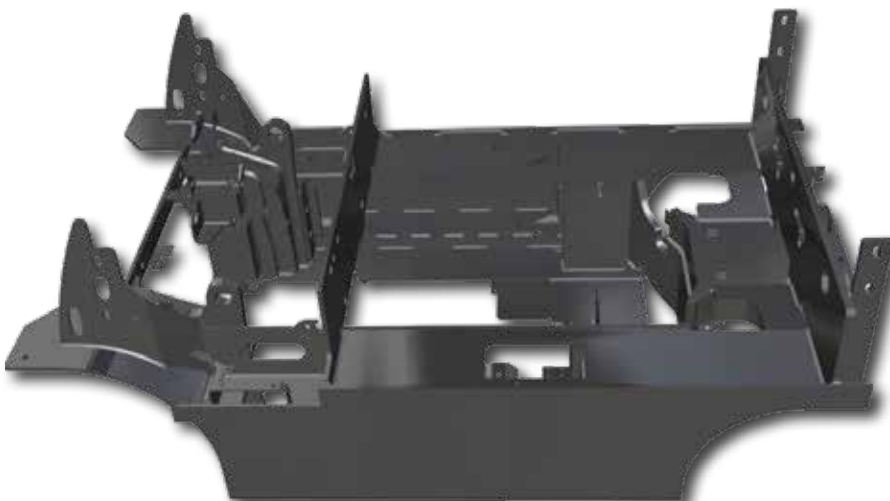
- Oil-cooled wet disc brakes are completely sealed from water and other contaminants for extremely long brake service life, even in outdoor elements.
- Auto deceleration system extends brake life by automatically slowing the truck through regenerative braking when the accelerator pedal is released.
- The power-assist braking feature improves brake life while reducing operator effort.
- Dash and steer column covers are injection-molded composite plastic designed for strength, impact resistance and environmental stability. Color is molded-in for durability.



Large air inlet ports in the rear of the truck are protected and strategically positioned to provide fresh air intake for controller cooling.



Easy-to-use on-board diagnostics through the multifunction display provide fast and accurate troubleshooting for first-time fixes.



Unitized frame construction provides excellent durability and strength, boosting driver confidence and enhancing productivity.



Industrial-Strength Electronics

- Proven, tough Pacesetter Vehicle System Manager (VSM) industrial on-board computer manages truck operation.
- CANbus communications network reduces wiring complexity.
- Non-contact, Hall-Effect sensors and switches are designed to last the life of the truck.
- Double-sealed electrical connectors provide a dustproof and waterproof connection to help prevent contamination-related failures.
- Smart, one-way routing path for wire harnesses provides consistent, high-quality assembly and helps simplify maintenance.

Hyster Stability System (HSS®)

Our HSS® is built into the fundamental design of every truck to allow for articulation on uneven surfaces and to minimize truck lean for enhanced lateral stability. And unlike some competitors, the Hyster HSS® is virtually maintenance-free.

Hassle-Free Hydraulics

- Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.
- A 10-micron, high performance in-tank filtration system captures 99.5% of hydraulic system debris, significantly extending component life.

CONTROL AND COMFORT

Comfortable productivity. This is the advantage of the J80-120XN series. Compared to conventional battery box designs, the drop battery box design allows for a lower center of gravity with better clearance. Operators thrive with the automotive feel of the truck, along with easy on/off access and one of the most customizable, intuitive compartment designs on the market.

Superior Operator Compartment

- Choice of two configurations that employ seat side mechanical hydraulic levers or TouchPoint electro-hydraulic mini-levers to provide low effort, tactile control of all hydraulic functions.
- Uncluttered floor area.
- 3-point entry design of operator compartment features a large molded hand grip, hip restraint and open anti-slip step with a low step height to minimize muscle and joint strain during entry/exit.
- The operator convenience station provides a dash storage area for almost anything an operator needs.
- Optional DC converter provides an automotive style 12-volt outlet in the operator convenience station and an auxiliary power tap under the floor plate.

- Forward placement and angle of pedals provide more operator foot room.
- Seat is rotated 3° to the right for a more natural operating position, and offers easy fore/aft adjustment. An optional full suspension seat offers adjustable weight adjustment.



High-comfort seat conforms to the operator, not vice versa



Uncluttered floor space



3-point entry design



Operator convenience station

12-volt automotive style outlet



Comfortable operation

- Standard automatic park brake automatically applies the park brake when the truck is stationary and releases the park brake when the accelerator pedal is depressed, reducing operator effort.
- Brake pedal placement and the minimal braking requirements of the auto deceleration system significantly reduce operator fatigue.
- Rear drive handle (optional) provides an ergonomic hand hold for reverse driving while giving ready access to the auxiliary horn button for use when approaching cross-aisles and pedestrian traffic areas.
- An infinitely adjustable steer column and optional telescopic steer column with tilt memory provide a customizable experience.
- A choice of six different seats.
- Increased shoulder clearance—a result of the front curved overhead guard leg.
- The standard 12-inch steering wheel with integrated spinner knob helps to reduce fatigue, provides ample knee room and goes lock-to-lock in just 4.3 turns for superior efficiency, maneuverability and control.
- Optional key switch controlled lights turn work lights and taillights on and off with the key switch, and turn rear work lights on automatically when the truck travels in reverse, eliminating the need for the operator to control them manually.

Hydraulic Controls

- Standard seat side mechanical levers are positioned ergonomically and offer an optional integrated thumb-actuated directional control switch.
- Optional electro-hydraulic controls with TouchPoint mini-levers provide precise fingertip control of all hydraulic functions. An adjustable armrest, mounted on the operator seat, positions the mini-levers in a comfortable and efficient position. The armrest is cushioned and contoured to provide full forearm support. The hydraulic functions, seat side directional control switch, horn and power disconnect button are all incorporated in the armrest to maximize operator comfort and ease of use.



Electro-hydraulic controls with TouchPoint mini-levers



Optional rear drive handle to aid in reverse operation.

THE ATTITUDE OF ICE. THE EFFICIENCY OF ELECTRIC.

You've been asked to move more products while also cutting costs, no questions asked. No problem. The J80-120XN series is built for powerful performance, industry-leading maneuverability and maximum uptime. It has the attitude of an ICE truck, but the efficiency of an electric truck. Win, win.

Enhanced Operator Control

- Exclusive VISTA™ mast provides fast lift and lower speeds combined with superb visibility.
- Choose from the Hyster® exclusive MONOTROL® pedal or the ergonomically placed thumb-actuated seat side directional control (at no extra charge) for quicker, smoother control of travel speed and direction, improving operator efficiency and bolstering productivity.
- The Multifunction Display's large, LCD backlit screen displays truck status and warning indicators for quick and easy diagnostic readings.
- The optional Hyster-designed integral sideshift provides excellent visibility and supports greater capacities than carriage mounted sideshifts.
- Choose from two configurations that employ seat side hydraulic levers or TouchPoint mini-levers to provide low effort, tactile control of all hydraulic functions.
- Infinitely adjustable tilt steer column provides increased comfort and minimizes fatigue.
- On-demand hydrostatic steering provides low effort steering and superior control with reduced noise.
- Power-assist braking improves brake life while reducing operator effort.



Monotrol® pedal



Electro-hydraulic controls with TouchPoint mini-levers



Seat side hydraulic levers

AC Technology

- An 80-volt electrical system is standard on the Hyster® J80-120XN series, providing maximum performance in long-haul applications.
- Delivers quick and smooth changes in travel direction, offers precise speed control with excellent acceleration.
- The standard Extended Shift feature allows enhanced run time over longer periods without recharging.
- AC transistor hydraulic control helps increase the efficiency of load handling with less noise.
- Hyster-designed thermal management system maximizes performance during continuous operation, while preventing damage to components due to heat.

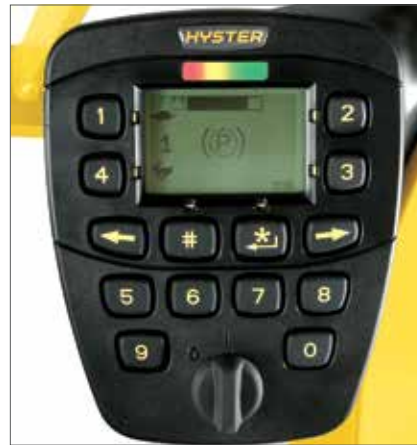
Performance Modes

- Adjustment of customizable performance parameters to match your application needs is accessible via the multifunction display.
- A significant increase in loaded travel speeds and acceleration rates beyond the standard setting is possible when the “Extended Shift” setting is turned off.
- Our standard “Extended Shift” AC controller setting provides the optimum balance between performance needs and battery shift life.

Multifunction Display

The Multifunction Display, located in the upper right corner of the operator’s compartment, features a large, LCD backlit screen for easy viewing and indicator icons for at-a-glance system status.

- Battery state of charge indicator
- Low battery lift interrupt program
- Hour meter
- Performance mode indicator
- Fault indicator
- 4 operator selectable, programmable performance modes
- Low mount option available



Multifunction Display

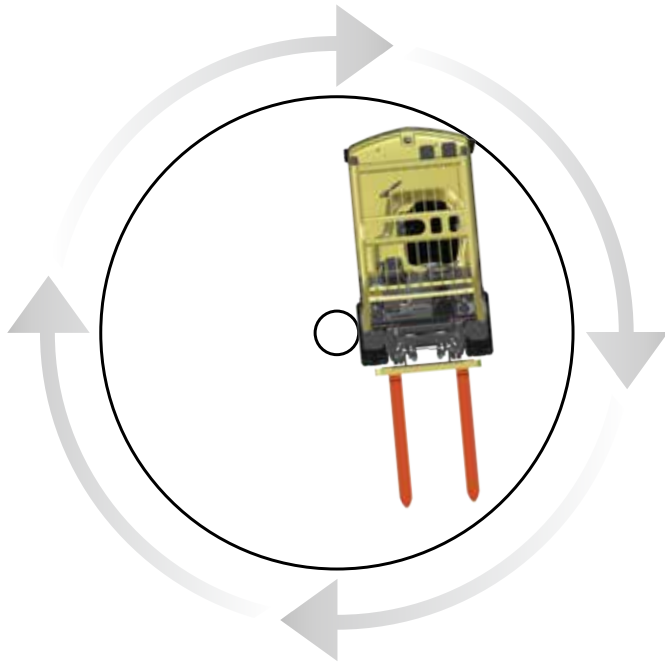


An optional premium, fully integrated "quick connect" rapid charge system simplifies the charging operation. The side-mounted port is easy to access.

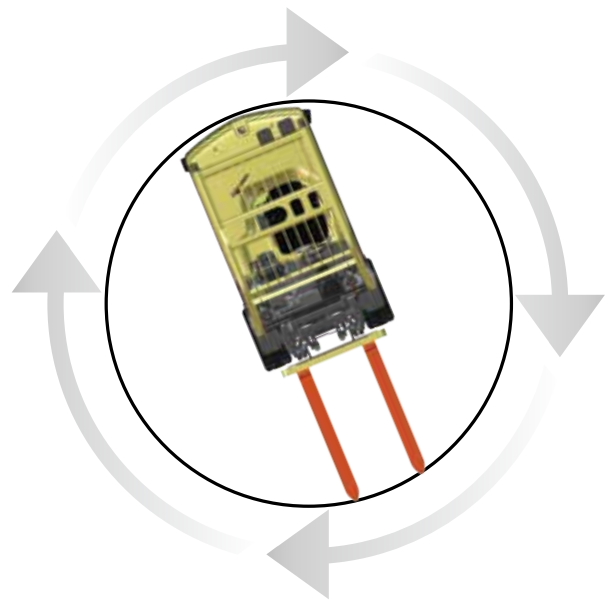
ENHANCED PRODUCTIVITY

Exceptional maneuverability

The “Zero Turn” radius steer axle and dual AC drive motors combine to provide extraordinary maneuverability in congested areas and narrow aisles.



Conventional Differential Drive Axle Design



Hyster® Dual Drive Motor Design

Application/Environmental Construction Options

In response to customer requests for an electric truck that can be operated outside and in adverse environments, Hyster Company has released the following Application/Environmental options:


- Standard construction: operating temperatures: +32°F to +120°F
- Cooler/freezer package option: operating temperatures: -20°F to +120°F
- Standard front mud guards
- Optional tilt cylinder boots
- Standard IP54 sealed drive axle with belly pan
- Standard outdoor protection/washdown package
- Cab options available

These enhancements make the J80-120XN trucks suitable for outdoor use in applications where only internal combustion engine trucks have been successful in the past.





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