J230-400XD

HEAVY DUTY ELECTRIC FORKLIFT TRUCK

Product Brochure

HYSTER

J230-400XD SERIES

The Hyster® J230-400XD series is a high-capacity electric forklift that delivers the ICE-like performance that operations expect, while representing a sustainable alternative to internal combustion engine trucks.

A modular design approach enables the Hyster electric big truck series to scale according to customer demands, with the size of the integrated lithium-ion battery pack configurable to match duty cycle and charging requirements. High levels of commonality with the equivalent diesel Hyster models helps ease the transition to electrification and a zero-emission solution.

Hyster electric big trucks are suitable for indoor and outdoor applications, capable of a long service life in all typical working conditions within lumber, metals, ports and other demanding environments. Hyster offers 18 models in this series with choices of 24-, 36- or 48-inch load centers in the 23,000 – 40,000 pound capacity range.

Application images may reflect previous designs or optional features


HYSTER
360

RIGHT-SIZED SOLUTION

A 350-volt architecture provides the right sized solution for performance and efficiency, delivering ICE-like performance without the additional costs and complexity of higher voltage systems found in competitive offerings. This system provides longer run-times, minimizes energy loss and offers superior efficiency to lower voltage options, like 80- or 120-volt systems.

Hyster also offers the greatest choice of lithium-ion battery modules across the series, configurable from 140-280kW to match customer requirements and scalable to meet future business needs.

WATCH THE VIDEO

BATTERIES & CHARGING

As demanding applications face pressure to decarbonize, lithium-ion technology offers several advantages that make it well suited to helping meet sustainability goals and powering through tough duty cycles. Integrated lithium-ion batteries not only produce zero tailpipe emissions, but require no battery maintenance, offer long run times and allow for fast charging times and opportunity charging during breaks.

With fast charging rates, operators can top up and get back to work fast. Equipped with the right battery pack and charger, the truck can add approximately an hour of working in 11 minutes of charging at 90 kW.

As standard, Hyster electric big trucks incorporate the Combined Charging System (CCS) - a commonly used global standard for charging electric vehicles. The CCS protocol enables operations to have a single, standardized charging connector that has been adopted across numerous industries and geographies. Leveraging this technology in materials handling equipment enables operations to cost-effectively scale charging for multiple applications and varying fleet sizes with minimal hassle.

Operations can monitor battery status and system health directly through the trucks' integrated performance display. The Battery Management System (BMS) provides detailed status information to help users understand available performance and protect overall battery health. The BMS has seven temperature sensors per battery pack to help monitor overheating, balancing, controls overcharging and lift interrupt at low charge, and the system disconnects the battery if a parameter is exceeded.

CCS1

CCS2

PRODUCTIVITY & DEPENDABILITY

Moving to zero-emission forklift trucks does not mean re-inventing the wheel. A modular, common approach to the design of these electric trucks enables customers with mixed fleets to transition from diesel to electric with minimal hassle, carrying over spare parts and maintenance programs developed through their existing operation.

HEAVY-DUTY STEER AXLE

The re-designed steer axle adopted from the diesel counterpart is engineered for greater overall robustness to meet the needs of today's tough demanding application.

ELECTRIC DRIVETRAIN

Powered by 108kW traction and 166 kW lift motors, the electric drivetrain and lift systems provide instant torque and high controllability, delivering ICE-like performance that translates into precise, powerful and accurate load movements.

MOVE VALUE FOR LOWER COST OF OWNERSHIP

REGENERATION SETTINGS

Multiple performance modes equip operators to choose from variable deceleration and regeneration to tailor performance to the task at hand. Operations can access performance modes through the integrated performance display, with five levels of deceleration to match their desired comfort and driving behavior, inspiring confidence in the truck's behavior and helping increase overall productivity.

Based on the level of deceleration chosen, the regenerative braking will supply energy back into the battery by using the traction motor to slow the truck and brake. Regeneration can increase operational time between charges, by allowing energy that would have otherwise been lost to be preserved and captured back into the battery.

INGRESS PROTECTION

High ingress protection (IP) rating enables the batteries, cables and wires to withstand the demands of intense, tough operating environments, with all systems vulnerable to adverse effects from moisture and dust designed and constructed of materials for long-term durability.

High-performance LED working lights offer an energy efficient solution to enhance visibility in low light environments.

Standard in some regions, optional in others. Refer to regional technical guide for details.

HYSTER MAKES OPERATOR COMFORT A PRIORITY

CAB COMFORT

With the largest cabin entry area in the industry, the operator cabin on the Hyster J230-400XD series provides ample space for operators of any size to easily and more comfortably enter and exit the cabin. Once inside, operators enjoy the comfort of a spacious cockpit style cabin that keeps all truck information and controls within reach.

The ergonomically designed, seat-mounted control arm is fully adjustable and includes a wrist cushion and TouchPoint™ mini-levers to help reduce fatigue when operating the hydraulics. The reliable CANBUS controls for all main components and modular design of the control arm makes it possible to cover almost any possible truck configuration while being easily serviceable.

The 7" full color, touchscreen Integrated Performance Display tracks all truck activity, allows for easy access to change or calibrate truck settings and is integrated with Hyster Tracker™ telemetry system. The display also offers high-level onboard diagnostics allowing for advanced and quick troubleshooting.

A variety of seat configurations are offered to suit operator preference including mechanical or air suspension, cloth or vinyl cover, lumbar support and ventilated or heated seats. The air conditioning system can be pre-set for automatic climate control and the unique high and rear louvers provide direct air flow toward the operator.

A benefit of moving to an electric drivetrain is that the operator experiences less whole-body vibrations, reducing fatigue during long shifts.

WATCH THE VIDEO

FORWARD AND REARWARD VISIBILITY

An open carriage design, mast chains mounted on the outside of the mast low cowl and increased space between mast channels and valve block enable enhanced forward view of fork tips at travel and load height.

Front and rear windshields with curved, scratch-resistant, tempered glass, an armored glass top window and one-piece, steel-framed glass doors provide operators with excellent all-around visibility. On the exterior, sloping counterweights and the integrated battery design enhance visibility of steer tires for improved maneuverability and reduced tire gouging.

By integrating batteries into the existing truck design, rear visibility is the same on most equivalent ICE models. A raised hood spine is required for select models when equipped with three- or four-battery packs and forced air cooling, though effects on visibility are minimal as seen in the comparison photo.

The operator has a clear view of the fork tips when in the operator seat

Normal spine

High spine

LOW MAINTENANCE. HIGH PERFORMANCE.

SERVICEABILITY

The Hyster J230-400XD series trucks are designed with the technician in mind, providing proper protection of high-voltage battery systems while also supporting fast, effective service to non-high voltage parts. Technicians can conduct daily checks without tilting the cab, though when access to hydraulic components is necessary, they can tilt the cab in seconds. Broad, galvanized slip-resistant running boards on the outside of the truck support quick access to the drive train compartment. Access to high-voltage components requires technicians to follow appropriate safety processes, and high-voltage circuits are identified by orange cables.

FUSE WARNING LIGHTS

With the press of a button, an LED light next to the fuse itself will identify which one is broken. Without fuse warning lights, each fuse would need to be looked up individually by number, or removed one by one to determine which is broken by trial and error.

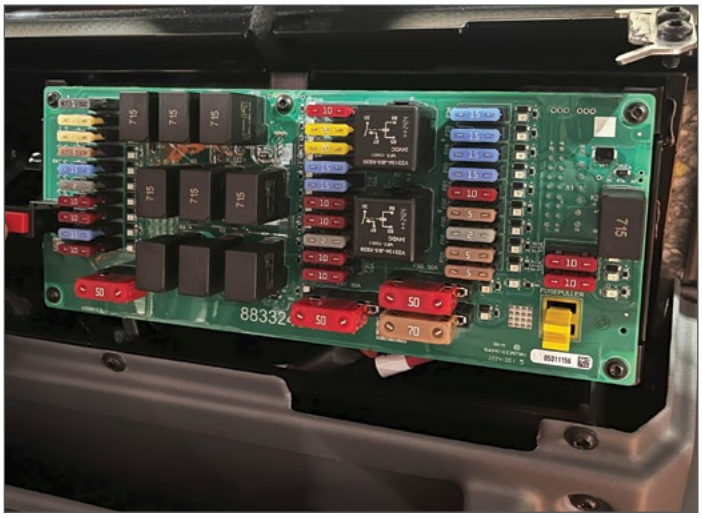
ADJUSTABLE MAXIMUM STEERING ANGLE

Tire repair and replacement is the second largest expense in total cost of operation. With this industry exclusive feature, operations can adjust steering behaviors, with maximum steering angle for freedom of maneuverability when tire wear is not a concern as the default configuration, while reduced steering angle decreases friction for reduced tire wear and cost.

ON-BOARD DIAGNOSTICS

CANbus on-board diagnostics in an automotive-style layout with fuses centrally located behind the operator seat provide easy servicing and troubleshooting. Error codes are provided on the integrated performance display for quick and effective identification of service items while enabling rapid implementation of remedies, reducing downtime and reducing the mean time for repairs.

WATCH THE VIDEO



Fuse warning lights

Adjustable maximum steering angle

On-board diagnostics

Hyster Company
P.O. Box 7006, Greenville, North Carolina 27835-7006

J230-400XD (A924) Brochure LAM EN I Litho in USA 08/25 CM