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## HEAVY-DUTY CONTAINER HANDLER PRODUCT BROCHURE

# H1050-1150XD-CH SERIES

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# H1050-1150XD-CH SERIES

Hyster® laden container handlers deliver productivity, durability and comfort in tough container handling applications. Equipped with an innovative Tier 4 Final powertrain this series offers improved fuel economy over the Tier 3 baseline Hyster products.

The H1050XD-CH and the H1150XD-CH top picks are engineered to provide up to 80,000 and 88,000 lb of container handling capability respectively on a 232" wheelbase.



2 *\*Results may vary based on application, physical environment, fuel quality, etc. Tier 4 Final features may help increase efficiency by delivering lower fuel consumption over Tier 3 products. All application images reflect older model cab design.*



# TOUGH ENOUGH TO ENDURE HEAVY-DUTY APPLICATIONS

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## Integrated powertrain Tier 4 Final

- The Tier 4 Final Cummins QSX-12 engine delivers 380 hp peak featuring selective catalytic reduction (SCR), diesel oxidation catalyst (DOC), integrated diesel exhaust fluid (DEF) delivery system, diesel particulate filter (DPF) and a water-cooled wastegate turbocharger.
- The engine protects itself from excessive temperatures and pressures including:
  - High coolant temperatures
  - High air intake temperatures
  - High transmission oil temperatures
- A torque derate strategy is implemented for engine and drivetrain protection
- Rugged Spicer Off-Highway TE-30 transmission with proven field experience and reliability
- Automatic throttle-up
- On-demand cooling
- A 24V electrical system with a 120 amp alternator, which includes a master battery disconnect switch
- CANbus diagnostic connection is available in the cab to monitor engine, transmission, instruments, and load-moment protection systems and facilitate troubleshooting

## Tier 3 (not available in US or Canada)

- Tier 3 Cummins QSX-12 engine delivers 370 hp peak
- Rugged Spicer Off-Highway TE-30 transmission
- On-demand cooling
- Automatic throttle-up
- Water-cooled wastegate turbo
- 24V electrical system with a 110 amp alternator, which includes a master battery disconnect switch
- CANbus diagnostic connection is available in the cab to monitor engine, transmission, instruments, and load-moment protection systems and facilitate troubleshooting

## Travel speed limiters (laden)

Travel speed limitation is a standard feature with standard factory settings at 13 mph. When a container is detected, the speed will be limited to the standard factory preset speed of 10 mph.

## HYDRAULIC SYSTEM

- Leak-free ORFS (O-ring face seal) type fittings are used throughout the truck
- Efficient filtration with new breathers. Full-flow return line filter with 5 micron cartridge on the main system, plus in-line pressure filter with 5 micron cartridge on power-assist and support systems.
- Hydraulic oil tank features a 163 gal. usable volume, with level, temperature gauge and magnetic drain plugs, providing additional cooling and reserve capacity
- Centralized pressure check points
- Fewer fittings, shorter hoses and conveniently located hydraulic components

# TECHNOLOGY THAT TRANSFORMS

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When it comes to keeping costs down, Hyster® can offer optimum efficiency in fuel consumption and reduced maintenance costs for your truck over its useful life. Because we understand that your total cost of ownership extends beyond just the initial acquisition costs, Hyster has collaborated with leading suppliers to provide well-integrated components to help lower the overall cost of operations.



## Automatic throttle-up

Automatic throttle-up is available on Hyster® H1050-1150XD-CH Tier 4 Final trucks, providing automatic response to lift inputs from the operator when the lift lever is activated. A single-touch lever or joystick-controlled rev-up keeps the engine in the most efficient band delivering good fuel economy. Given the improved operator ergonomics, this feature helps enhance productivity. Automatic throttle-up feature applies only when the truck is in neutral.

## Powertrain protection system

An engine protection system, acting on low oil pressure and high coolant temperature, is standard equipment. A transmission protection system, triggered by excessive oil temperature, is also standard equipment. In order to minimize damage to the truck, these systems will initially decrease the engine power when a problem is detected and derate the engine to creep mode if immediate action is not taken.

## Reliable and durable engine design

ECO-mode controls maximum engine RPM and throttle response to provide the required balance of performance and fuel savings:

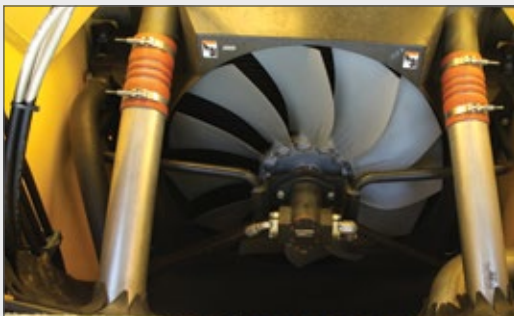
- Hi-P helps to provide maximum performance and good fuel economy.
- e-Lo helps to provide minimum fuel consumption without losing productivity.

An automatic engine shutdown with timer option reduces fuel consumption by shutting the truck down when the operator is out of the seat for extended periods, thus limiting idle hours on the truck.

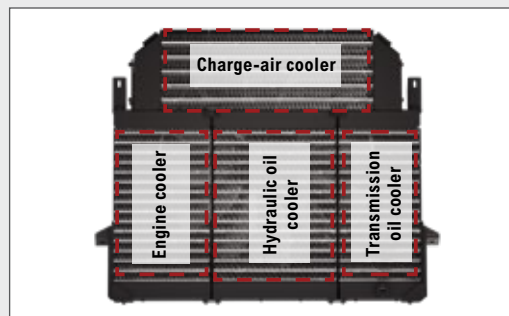
Hibernate idle is a feature that reduces the engine idle speed to 700 rpm during extended idle periods to further conserve fuel.

## ON-DEMAND COOLING

On-demand cooling is provided by a hydraulically driven fan, which reduces both noise and power consumption during cooling. The cooling system is designed for high ambient temperature conditions and provides on-demand cooling. The fan operates at variable speeds (depending on cooling needs) to enable the maximum engine power available during driving and handling operations, thereby maximizing productivity. A heavy-duty cooling system is standard, which provides all the necessary cooling of the engine and hydraulic system for working in ambient temperatures of up to 122° F.



Puller fan draws cool and clean air



Quad-core configuration enables efficient cooling



# SUPERIOR SERVICEABILITY

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Hyster® trucks have been designed with the service technician in mind. The top deck is covered with easily removable aluminum cover plates with quick disconnect latches. When plates are removed, all major components—including the drivetrain and hydraulic systems—are easily accessible for service work.

Broad, slip resistant running boards foster quick daily checks, while a large access bay enables easy radiator cleaning. The hydraulic oil tank features a sight glass for the oil level monitoring as well as magnetic drain plugs and two 3-inch shut-off valves for ease of maintenance. Optimized electrical harness and hydraulic hose routing enable seamless service of the truck and shorten service times. Wide open access to major powertrain and hydraulic components enhance ease of serviceability for ongoing maintenance. Major engine and drivetrain components are engineered to operate on 500-hour service intervals. Extended service intervals can help the truck to remain in operation with longer mean times between oil changes or servicing.

CANbus on-board diagnostics with fuse relay board, controllers and other electrical components centrally located on the rear cabin wall make for easy servicing and troubleshooting. Fault codes and system notifications are provided through the Integrated Performance Display for quick and effective identification of service items while enabling rapid implementation of remedies, helping reduce downtime and reducing the mean time for repairs.

Optional automatic greasing will significantly lower total cost of ownership by eliminating maintenance costs of manually greasing each component. When the greasing process is complete, component service life can be extended.



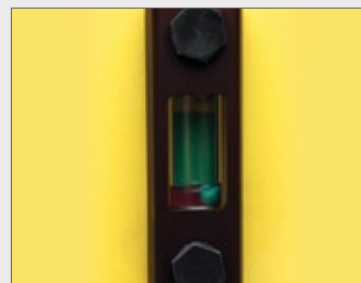
**Convenient oil check**



**Optional automatic greasing system**



**Diesel Exhaust Fluid (DEF) tank**



**Hydraulic site glass located externally on the truck for clear, instant visibility of oil levels**



**Tier 4 Final integrated pre-cleaner and air filter**

# DESIGNED FOR OPERATOR COMFORT

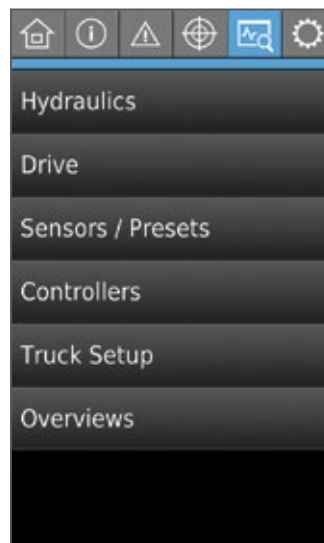
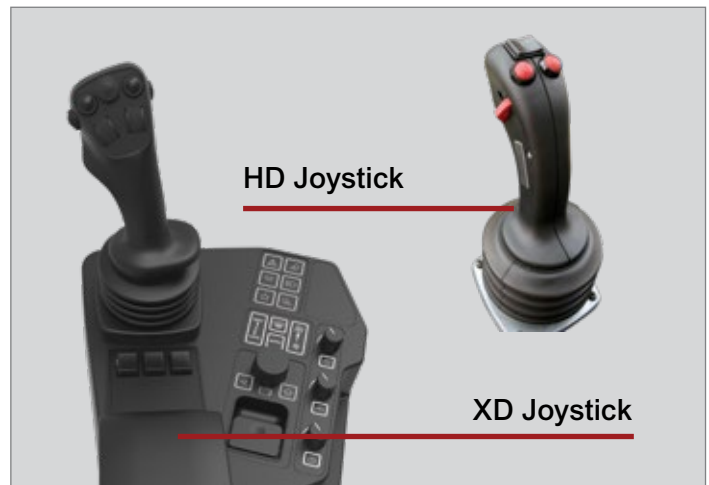
Hyster Company is known for tough lift trucks, but we're also recognized for designing ergonomics for a comfortable operator. The H1050-1150XD-CH series builds on this reputation by simplifying container handling with intuitive controls while providing the most comfortable work environment possible. A spacious, comfortable environment and interface with ergonomically-designed controls helps to elevate productivity while minimizing operator fatigue.

The H1050-1150XD-CH series operator cab provides a spacious cockpit style cabin that keeps all truck information and controls within reach.

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 high and rear louvers provide direct air flow toward the operator.

The ergonomically designed, seat-mounted control arm is fully adjustable and includes a wrist cushion and redesigned joystick to help reduce fatigue when operating the hydraulics. The intuitive joystick, integrated in the armrest, is designed for simplicity to provide easy, precise operation of the mast and spreader. The modular design of the control arm makes it possible to cover almost any possible truck configuration while being easily serviceable. The reliable CANBUS controls all main components.

The new 7" full color, touchscreen Integrated Performance Display shows all truck activity, allows for easy access to change or calibrate truck settings and is integrated with Hyster Tracker™ telemetry system.







## COMFORTABLE CAB. INTUITIVE CONTROLS.

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### **Cab auto tip-up (optional)**

Provides a 10 degree back tilt of the cab when containers are stacked at a 4, 5 or 6 high level, reducing operator neck strain.

### **All-around visibility**

Superb forward visibility allows easy positioning of containers at any height for more precise and efficient load handling. The unique mast design positions cross-members away from critical container lift heights while keeping twistlocks in view at all times.

The cab's structural design and curved tempered glass windshield provide all-around visibility, optimal for container stacking. Rearward visibility is enhanced by the steel fabricated, rear sloping counterweight design. Lifting points are incorporated into the counterweight.

# PRODUCTIVITY AND PERFORMANCE

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Through the combination of engine, transmission and hydraulic technologies, the H1050-1150XD-CH lift truck is designed to drive excellent performance in container handling, helping to lower the cost of a container move. Cycle speeds, combined with 5-6 high stacking capability, help to move more containers per hour.





## High-capacity spreader

Productivity is a primary focus on Hyster® container handlers. Consequently, the trucks are equipped with Hyster 800 series innovation spreaders with the following features and functionality:

- Both mechanical and powered pile sloping capabilities are available for the handling of containers on a sloping surface.
- Four standard lifting eyes located near the twistlocks on the spreader, as well as four extra lifting eyes located on the underside of the container spreader
- Light Emitting Diode (LED) lights on the spreader are standard for enhanced visibility of twistlocks. Twistlock LED indicator lights (one red, two orange and one green) located on the spreader and in the cab provide a visual indicator of twistlock status to assist the operator in handling both laden and unladen containers.
- Mechanical twistlock interlock helps to prevent lifting a container on less than two corners prior to handling a container. A lift-interrupt system helps to prevent lifting a container with partially engaged twistlocks.
- Over-lowering protection based on spreader extension beam angle interrupts lowering movement if twistlocks are not seated properly in the container. An over-lowering interrupt device reduces shocks on the spreader by eliminating slacking of mast lift chains, header cables and header hoses.
- Hydraulic telescoping designed for 20 ft or 40 ft ISO containers powered by one dedicated hydraulic cylinder inside each beam.
- Hydraulic slew and reach capability powered by two hydraulic cylinders connect the spreader to the gantry. A third cylinder between the spreader and gantry enables the sideshift motion.
- Automated one-touch spreader extend/retract feature available to automatically extend the spreader to 20 or 40 ft with one touch of the button.
- 30 ft stop is available when handling 30 ft containers. Includes spreader reinforcements and electrically operated mechanical stop locks at 30 ft spreader position.
- Automatic greasing for the spreader is available on all H1050-1150XD-CH lift trucks.
- Gantry-mounted for laden containers up to 88,000 lb

## LIFTING, LOWERING AND TRAVEL SPEEDS

Hyster® H1050-1150XD-CH container handling trucks deliver high productivity with 4-mode average speeds of 51 ft/min (0.26m/s),\* making it quite competitive in the industry at rated laden container handling capacities.

### Travel speeds:

- 13 mph (21 km/h) - Laden or unladen

### Lifting speeds:

- 53 ft/min (0.27 m/s) - Unladen
- 49 ft/min (0.25 m/s) - Laden


### Lowering speeds:

- 98 ft/min (0.50 m/s) - Unladen
- 98 ft/min (0.50 m/s) - Laden

\* Average speed calculated using: laden lift speed (ft/min) at full rated capacity; unladen lift speed; laden lowering speed at full rated capacity; unladen lowering speed.



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