



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

# **HEAVY DUTY FORKLIFT TRUCK**

**H800-1050HD/S SERIES**

**[WWW.HYSTER.COM](http://WWW.HYSTER.COM)**

## > **HYSTER® H800-1050HD/S SERIES**

### **HEAVY DUTY TRUCKS FOR EXTREME DUTY APPLICATIONS**

Hyster Company has a long history of building heavy duty forklift trucks for heavy duty applications. The Hyster® H800-1050HD/S series represents the 80,000 - 105,000 lbs forklift solution from Hyster Company suited for the toughest applications. The trucks come standard with a Tier 4 Final Cummins QSL 9L engine with a 4 speed Spicer Off-Highway TE-32 powershift transmission. The engine features cooled exhaust gas recirculation (EGR) and Selective Catalytic Reduction (SCR). Using reliable and proven components to help provide high productivity and an overall lower cost of ownership under extreme operating conditions, this truck is your performance solution.

Easy servicing is another hallmark of this truck while offering lower fuel consumption\* than our prior Tier 3 products. The H800-1050HD/S forklift trucks are also available with a Tier 3 QSM 11L engine for non-regulated markets.

Over 80 years of heritage building tough forklift trucks is brought to bear in this series, available in five models for use in steel, heavy breakbulk, machinery, concrete and specialty applications.

*\* Results will vary based on application, physical environment, fuel quality, etc.*





## HEAVY DUTY MASTS AND CARRIAGES

The H800-1050HD/S series is engineered for long load centers, wide loads and specialty loads in heavy duty-cycle conditions. Both pin-type and apron-style sideshift carriages are available with individual fork positioning and individual fork control, as well as Quick Disconnect (QD) pin type forks and optional heavy duty thinline QD forks. Carriages are designed to have minimal capacity derate with apron sideshifting carriages, enabling the truck to provide close to full rated capacity under all operating conditions. Greaseable load rollers help the front end components to provide years of dependable performance. The mast, with robust mast channels, rollers, stub shafts and chain anchors, helps to prevent less mast deflections.

## POWERTRAIN

- Tier 4 Final Cummins QSL 9L engine is standard for all models up to 105,000 lbs. of lifting capacity in North America and other EPA regulated markets.
- Tier 3 Cummins QSM 11L engine is standard for all models up to 105,000 lbs of lifting capacity in Latin America and other non-regulated markets.
- Dana Spicer Off-Highway TE-32 powershift transmission with established ruggedness and durability. The 4-speed transmission provides precise shift point selection enabling maximum efficiency of the drivetrain while minimizing fuel consumption.
- Tier 4 Final optimized engine includes an emission reduction package featuring cooled Exhaust Gas Recirculation (EGR), a Selective Catalytic Reduction (SCR) system for NOx reduction, a Diesel Oxidation Catalyst (DOC) for particulate matter (PM) removal and a Diesel Exhaust Fluid (DEF) delivery system.
- Powertrain derate system helps to prevent damage to the drivetrain and components by extending the life of engine oil, transmission and coolant fluids.
- Derate conditions activated on:
  - High coolant temperature
  - High air intake temperature
  - High transmission oil temperature
  - Low engine or transmission oil pressure

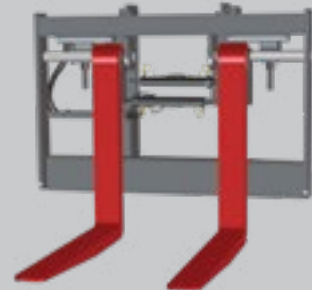
## COOLING SYSTEM

The heavy duty cooling system is designed for ambient temperature conditions up to 113° F (45° C), and a hydraulically driven cooling fan helps provide efficient operation by drawing cool, clean air from the environment while mitigating dust generation.

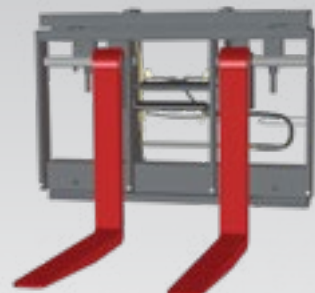
## STEER AND DRIVE AXLES

Hyster® steer axles are engineered for high durability in the toughest applications. Hyster has collaborated with Kessler to provide heavy duty drive axles with wet disc brakes to provide long life and longer service intervals on wearable service components.

*Different applications require different attachments and front end tools. Customize your truck with available carriage and fork options.*



*Pin-type fork positioner carriage with individual fork control*



*Apron-style sideshift fork positioner carriage with individual fork control*

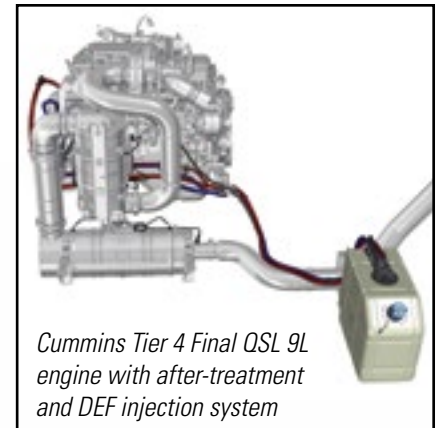
## > TECHNOLOGY THAT TRANSFORMS YOUR BOTTOM LINE

We understand that your total cost of ownership extends beyond the initial acquisition costs. Hyster® has teamed with leading quality suppliers to provide well-integrated systems that help reduce your overall cost of operations over the useful life of the truck.

### OPTIMIZED SYSTEMS DESIGN

A unique collaboration with Cummins results in a harmonized powertrain featuring a Cummins QSL 9L engine paired with the TE-32 Spicer Off-Highway transmission.

- Drivetrain solution optimized for maximum performance and improved fuel economy.
- Efficient combustion enabled by robust engine technology results in lower fuel consumption.
- Low-hassle Tier 4 Final solution requires no use of Diesel Particulate Filter (DPF) or active regeneration; utilizes urea-based SCR system with a diluter for lower exhaust temperatures. The Tier 3 solution continues to be available in all non-regulated markets.
- Innovative ECO modes: Hi-P and e-Lo (Tier 4 Final)
  - Hi-P provides maximum performance and good fuel economy.
  - e-Lo provides minimum fuel consumption without losing productivity.
  - Automatic throttle-up feature enables truck to operate within its most efficient speed under varying load conditions.



*Cummins Tier 4 Final QSL 9L engine with after-treatment and DEF injection system*



*Cummins Tier 3 QSM 11L engine*

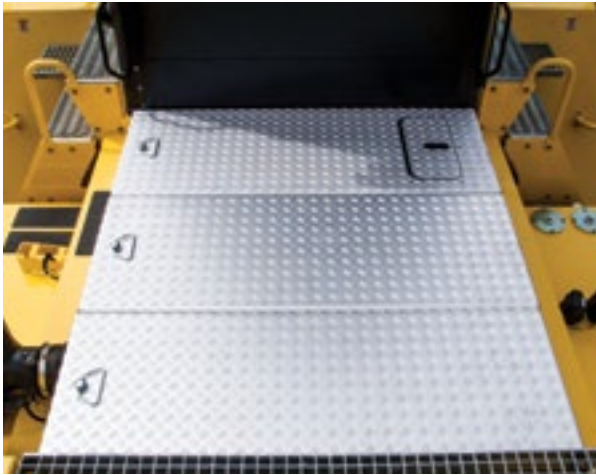
### FEATURES TO REDUCE YOUR FUEL CONSUMPTION

- Up to 20% lower fuel consumption compared to prior Tier 3 and Tier 4 interim Hyster® trucks.
- Xtra-High Pressure Injection (XPI) fuel system.
- Fueling system allows precise matching of engine rpm to load demands for optimal performance.
- Advanced controls enable Cummins QSL 9L engine to provide peak performance and operating efficiency while delivering great fuel economy and durability.
- Hibernate idle reduces the engine idle speed to 700 rpm during extended engine idle periods to further conserve fuel. (Available on Tier 4 engine trucks only.)
- Optional empty seat engine shutdown helps to reduce fuel consumption by shutting down the truck when the operator is out of the seat for extended periods of time, thus limiting idle hours on the truck.
- A hydraulically driven on-demand cooling fan draws power only when cooling is required between 10% and 100% of the engine speed, consuming less fuel and lowering noise levels.
- CANbus diagnostic fault codes are available for easy servicing and troubleshooting. Error codes are provided on an LCD display for effective identification of service issues while enabling rapid implementation of remedies, reducing downtime and frequency of repairs.



## ACCESS MAJOR COMPONENTS IN SECONDS

Hyster® trucks have been designed with the service technician in mind. The standard, powered, tilting operator compartment and the broad, removable floor plates provide quick access to key components, and daily checks do not require tilting the cab.



*Easily removable floor plates enhance service access*



## LONGER SERVICE INTERVALS

Major engine and drivetrain components are engineered to operate on 500-hour service intervals. Extended hydraulic oil change intervals of 2000 hours help the truck remain in operation with longer time between oil changes or servicing.

## DIAGNOSTIC CODE REPORTING

CANbus diagnostic fault codes are available for easy servicing and troubleshooting. Error codes are provided on an LCD display for effective identification of service issues while enabling rapid implementation of remedies, helping to reduce downtime and frequency of repairs.



*Ample space in front of cooler cores for tools. Easy to clean, vertically stacked radiator sections.*



*Battery compartment with lockable battery disconnect switch*



*Easy access interior cabin filter*

## > **ERGONOMICALLY DESIGNED AROUND THE OPERATOR**

Superb ergonomics is one of the hallmark features of Hyster® Big Trucks, with operator controls conveniently placed within a spacious cab for maximum comfort to help increase operator productivity. The H800-1050HD/S forklift series is no exception.

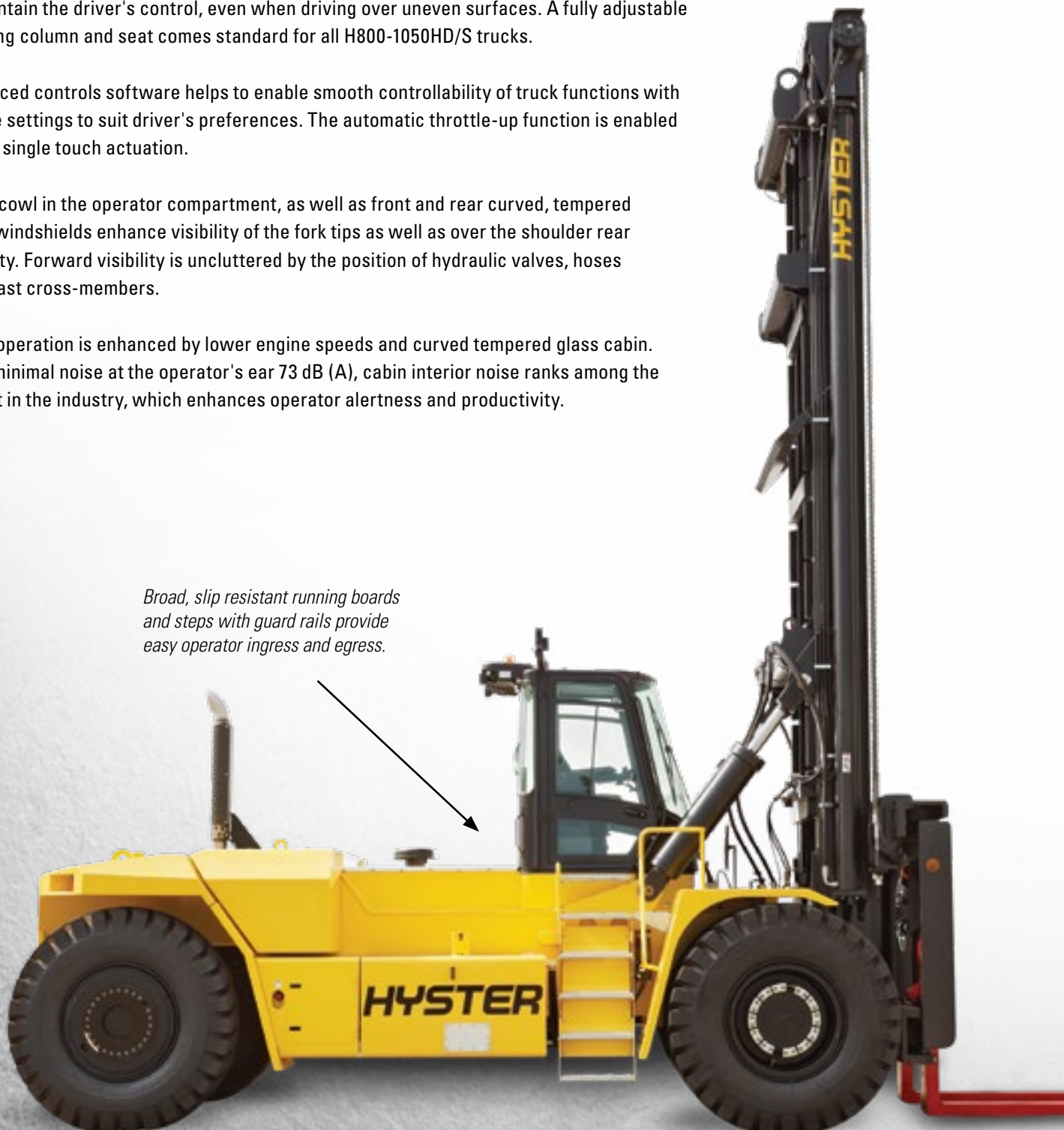
Mini-levers (or joysticks) and switches are integrated into the armrest for smooth controlled actuation of mast and attachment functions. The armrest is attached to the seat to maintain the driver's control, even when driving over uneven surfaces. A fully adjustable steering column and seat comes standard for all H800-1050HD/S trucks.

Advanced controls software helps to enable smooth controllability of truck functions with unique settings to suit driver's preferences. The automatic throttle-up function is enabled with a single touch actuation.

A low cowl in the operator compartment, as well as front and rear curved, tempered glass windshields enhance visibility of the fork tips as well as over the shoulder rear visibility. Forward visibility is uncluttered by the position of hydraulic valves, hoses and mast cross-members.

Quiet operation is enhanced by lower engine speeds and curved tempered glass cabin. With minimal noise at the operator's ear 73 dB (A), cabin interior noise ranks among the lowest in the industry, which enhances operator alertness and productivity.

*Broad, slip resistant running boards and steps with guard rails provide easy operator ingress and egress.*





# INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For nearly 90 years, Hyster® has conquered the world's most demanding applications. In the 1920s Hyster® started as a manufacturer of lifting machines used in the rigorous logging industry of the United States' Pacific Northwest. A few years later the first forklift trucks were invented and the Hyster® brand quickly gained its reputation for rugged quality. Hyster® lift trucks are designed to lower your cost of operations. Every truck we make — whether powered by gasoline, LPG, diesel, electric, CNG, lithium-ion or hydrogen fuel cells — is purpose-built to excel in its application. Every truck is also backed by an unmatched network of specialists.



**Dealer Network** — Our Dealer Network can offer the expertise of fleet managers, parts suppliers, capital procurement specialists and trainers. Carefully chosen dealers fully understand customer applications, assist in selecting the right lift truck and provide fast, reliable support.



**Hyster Fleet Services** — Even if you operate other brands, we can manage your maintenance and replacement plan. We can offer complete fleet analysis, fleet history summary and a cost-effective proposal for replacement and scheduled maintenance.



**Parts** — With genuine Hyster® replacement parts and UNISOURCE™ parts for all makes of lift trucks, we are your one-stop source for lift truck parts. In fact, we offer more than 7 million part number crosses for most brands of materials handling and other in-plant mobile equipment.



**Rental Products** — When leasing or buying isn't a practical option, we have access to more than 14,000 units for short- and long-term rental. We'll help you maintain output in a cost-effective manner.



**Hyster Capital** — We can arrange solutions for special financing requirements, taking the difficulties out of buying the equipment you need. Whether you purchase or lease a new or used lift truck, Hyster Capital offers superior service and competitive rates.



**Special Products Engineering Department (SPED)** — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



**Operator Training** — Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Hyster offers OSHA-compliant materials that support the training of qualified operators.




**Service** — Your local Hyster® dealer offers a flexible, customized and comprehensive maintenance plan based on each lift truck's operation environment. Hyster service programs offer scheduled inspections and maintenance, along with quick, responsive service dispatched to your location.



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11/2018 Litho in U.S.A.

Visit us online at [www.hyster.com](http://www.hyster.com) or call us at **1-800-HYSTER-1**.

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