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HEAVY DUTY FORKLIFT TRUCK PNEUMATIC TYRE

PRODUCT BROCHURE

H25-32XD SERIES

HIGH CAPACITY TRUCKS FOR HEAVY DUTY APPLICATIONS

Hyster has a long history of designing and building high capacity forklift trucks. The Hyster® H25-32XD series offers a Stage V powertrain featuring the Mercedes-Benz OM936 engine with cooled Exhaust Gas Recirculation (EGR) and Selective Catalytic Reduction (SCR). Using reliable and proven components for high productivity and an overall lower cost of ownership, this versatile lift truck is your performance solution. The truck is engineered for easy service with on-demand hydraulics while offering up to 25% lower fuel consumption* than other leading competitive products equipped with gear-driven hydraulic pumps. The H25-32XD forklift series is also available with a Stage IIIA engine for certain markets providing a cost effective alternative solution for various industry applications.

More than 90 years of heritage building tough forklift trucks is put into action in the H25-32XD forklift, available in seven models for use in applications such as steel manufacturing, sea ports, general cargo, mining, and stevedoring.

**Results will vary based on application, physical environment, fuel quality, etc.*
The above image reflects older model cab design.

DEPENDABILITY

ENGINEERED FOR TOUGH APPLICATIONS USING PROVEN COMPONENTS

HEAVY DUTY MASTS & CARRIAGES

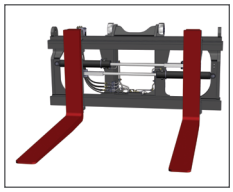
The Hyster® H25-32XD forklift, exceptionally suited for tough applications, has been engineered for long load centres, wide loads and heavy duty-cycle conditions. Coil rams, both pin-type and hook carriage mounted, are available in a number of configurations for steel industry and port applications.

The mast, with robust mast channels, rollers, stub shafts and chain anchors, is designed to excel in heavy duty applications. The sturdy mast design for this truck series enables less mast deflections while offering a number of single and 2-stage mast options for a wide variety of applications in multiple industries.

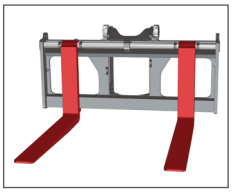
Greaseable load rollers with tapered roller bearings help to maintain dependable front end performance. Carriages are designed to have minimal capacity derate on sideshifting carriages, enabling the truck to provide close to full rated capacity under all operating conditions.

CARRIAGE & FORK OPTIONS

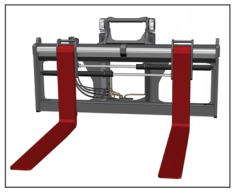
Different applications require different tools — customise your truck with five available carriage and fork options on the H25-32XD truck series.



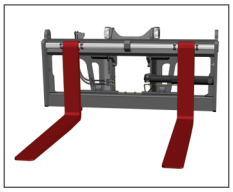
Dual function sideshift fork positioner with quick disconnect forks



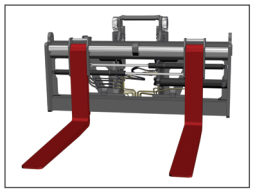
Standard pin-type with manual fork positioning



Pin-type with individual hydraulic fork positioning



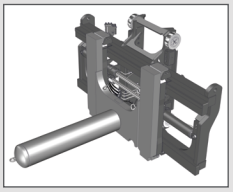
Apron-style sideshift



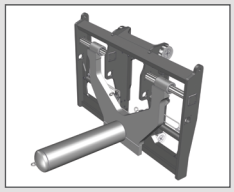
Apron-style sideshift with individual hydraulic fork positioning

COIL RAM OPTIONS

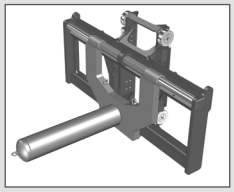
Hyster is committed to providing tailored solutions for unique customer applications. The H25-32XD series can be ordered with coil rams for metals applications. Configurations include, pin carriage or hook carriage mounted rams. Quick connect pin or hook carriage mounted rams are designed for dual use as a forklift truck or as a coil ram thus maximising asset utilisation for our customers.



Hook-type coil ram



Fixed pin-type coil ram



Pin-type sideshift coil ram

Hyster also offers a direct lift masts built with a single channel design and U-shaped integral coil rams directly connected to lifting cylinders. This rugged design is free of lift chains offering ideal visibility, heat resistance and durability in demanding coil handling applications.

DEPENDABILITY

POWERTRAIN

- Mercedes-Benz OM936 used for all models with Stage V engines.
- ZF WG 211 5-speed powershift transmission with proven field experience and reliability. The 5-speed transmission features improved shift point selection with an overdrive gear enabling maximum efficiency of the drivetrain while limiting fuel consumption.
- The Stage V Mercedes 7.7L diesel engine delivers 180kW and 1000Nm of maximum torque, featuring cooled exhaust gas recirculation (EGR) technology with selective catalytic reduction (SCR) and an integrated diesel exhaust fluid (DEF) delivery system. A 2-stage diesel oxidation catalyst (DOC) is also included for particulate matter (PM) reduction.
- Stage IIIA engines are available as an option for non-regulated markets, featuring Cummins 6.7L QSB engine and ZF WG 211 5-speed powershift transmission for all models up to 32,000 kg lifting capacity.

HIGH CAPACITY COOLING SYSTEM

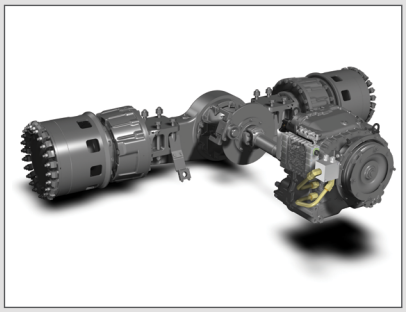
- High capacity cooling system is designed for high ambient temperature conditions up to 45°C (113° F).
- For trucks with Stage IIIA engines, a puller fan enables the cooling system to operate more efficiently by drawing cool, clean air from above through the radiator. Trucks with Stage V engines feature a cooling fan powered by the hydraulic system. A pusher fan is placed behind the cooler, pushing air through the cooler towards the engine bay to prevent debris going through the engine.
- On-demand hydraulics reduces heat load into the truck by pumping oil only when needed. The drivetrain runs cooler, thereby extending the hydraulic oil and component life.
- Components last longer with cooler fluid temperatures.

HEAVY DUTY STEER AND DRIVE AXLES

- Hyster steer axles are designed for longer life with a linkage design enabling six turns lock to lock.
- Hyster has collaborated with AxleTech to provide heavy duty drive axles with wet disc brakes to provide long life. The sturdy design enables longer service intervals on wearable service components.

On-demand hydraulic system

Heavy duty steer axle

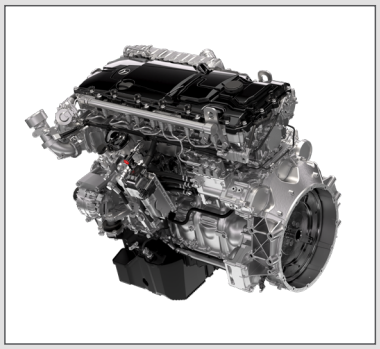


AxleTech drive axle

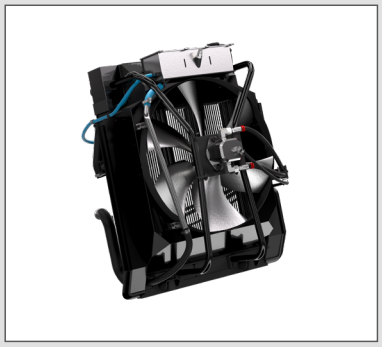
LOW COST OF OWNERSHIP

MORE VALUE, LESS COST

Hyster understands 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.



Mercedes-Benz Stage V enabled powertrain



On demand cooling for Stage V trucks

HARMONIZED SYSTEMS DESIGN

Cooperation with Mercedes-Benz enables a harmonised powertrain featuring a Mercedes-Benz OM 936 engine paired with the ZF WG211 transmission.

- Powertrain solution is optimised for maximum performance and improved fuel economy.
- Efficient combustion results in lower fuel consumption.
- Low-hassle Stage V solution requires no use of Diesel Particulate Filter (DPF) or active regeneration; utilises urea-based SCR system with a diluter for lower exhaust temperatures. The Stage IIIA solution continues to be available in all non-regulated markets.

ON-DEMAND COOLING

- State-of-the-art feature provides on-demand cooling to match the required cooling expectations.
- Cooling fan draws power only when cooling is required unlike direct drive fans which draw high levels of power at all times.
- Reduces accessory loads on the powertrain, consumes less fuel and lowers noise levels.

AUTOMATIC GREASING

An automatic greasing system is optional on many Hyster Big Trucks. This ingenious option lowers your service and labour costs by providing greasing to your truck at all times while ensuring that it gets done. With automatic greasing from Hyster, you can concentrate on maximising operational productivity while we keep your truck running smoothly even in the roughest of operating conditions.

LOW COST OF OWNERSHIP

ON-DEMAND HYDRAULICS

The Hyster® load sensing hydraulic system is designed to deliver flow only when required. The system features leak-free o-ring face seal fittings for enhanced reliability. A variable displacement pump, capable of more oil displacement even at low pump speeds, means the engine runs at lower speeds, extending the life of components while operating quieter. The system consumes up to 10% less fuel than a typical fixed displacement hydraulic system while producing less heat. Oil and filters last longer; hoses, seals and components also wear less and last longer.

AUTOMATIC THROTTLE-UP

Automatic Throttle-Up Is a novel feature which provides automatic response to lift inputs from the operator when the lift lever or joystick is activated. A single-touch controlled rev-up keeps the engine in the most efficient band to deliver good fuel economy. Given the improved operator ergonomics, this feature enhances productivity. Automatic throttle-up is functional only when the truck is in neutral.

TRAVEL SPEED LIMITERS

This system reduces travel speed to suit varying customer applications and is standard or optional depending upon model and tire types selected:

- Unconditional travel speed limiter to set the maximum speed.*
- Loaded travel speed limiter – limits traction speeds to a set point when a specified load weight is sensed on the forks. Factory preset to 12.8 km/h (8 mph).

This feature helps drivers to operate the truck in an optimal manner with regard to site limitations. Unconditional travel speed limiter is customer adjustable.

AUTOMATIC ENGINE SHUTDOWN WITH TIMER

Automatic engine shutdown saves fuel by shutting down the engine if the driver leaves the seat or the engine idles for too long, after a pre-set (adjustable) time. On-demand hydraulics keep oil temperature lower to protect hydraulic components. Plus an optional hydraulic temperature protection system is available to derate the truck when the temperature threshold is reached.

SERVICEABILITY

ACCESS MAJOR COMPONENTS IN SECONDS

Full-length running boards

EASE OF SERVICE

Hyster® trucks have been designed with the service technician in mind. Gull-wing hoods provide quick access to key components, and daily checks don't require tilting the cab. A tilting cab provides easy access to hydraulic components in seconds. Broad, slip-resistant running boards foster quick daily checks, while a large access bay enables easy radiator cleaning. A hydraulic sight gauge enables at-a-glance fluid level checks. Hydraulic and fuel tanks are bolt-on and designed for easy removal or repair in the event of damage.

Easy access interior cabin filter

Gull-wings provide easy access for quick service checks

ON-BOARD DIAGNOSTICS

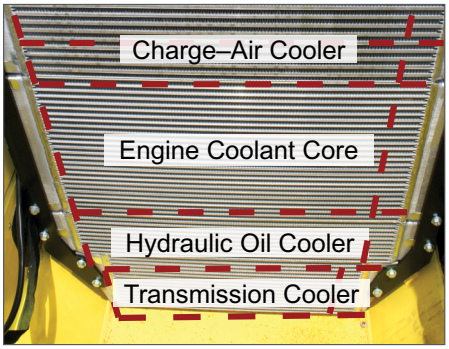
CANbus on-board diagnostics with fuse relay board, controllers and other electrical components centrally located on the rear cabin wall make for easy servicing and troubleshooting. Fault codes and system notifications are provided through the Integrated Performance Display for quick and effective identification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

Optional powered cab tilt provides easy access to major hydraulic components

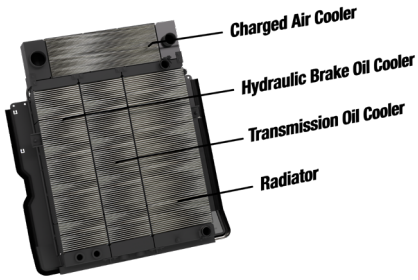
SERVICEABILITY

LONGER SERVICE INTERVALS

Major engine and drivetrain component are engineered to operate on 1000 hours intervals for the Mercedes-Benz stage V engine and 500 hours service intervals for the Cummins Stage IIIA engine. Hydraulic oil changes can occur up to 10,000 hours with hydraulic fluid sampling, helping to keep the truck in operation with longer intervals between oil changes or servicing, thus helping decrease downtime and boosting machine productivity. A hydraulic sight gauge makes at-a-glance fluid level checks easier



Quad-core configuration enables efficient cooling. Applies to Stage IIIA engines only.



Quad-core configuration enables efficient cooling. Applies to Stage V engines only.

COOLING SYSTEM

- Designed for heavy duty cooling applications requiring additional cooling capacity.
- Cooling cores are packaged such that cool air (not pre-heated air) is channelled across cores.
- Quad-core radiator features four separate cooler cores.
- Cool overhead air is drawn in for more efficient cooling than in stacked radiator configurations.
- Louvered cooling fins for maximum air flow to radiator.
- Hinged hood pivots at wide angles to provide easy access to cooling system.
- Ample space in front of cooler cores enables effective manoeuvring of service tools and equipment during service checks.
- Easy to clean since coolers are not stacked in front of each other.

SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE

Four parts distribution centres strategically located around the world provide a full range of original equipment and aftermarket parts that help maintain our customers' uptime.

ERGONOMICS

OUTSTANDING ALL-AROUND VISIBILITY

DESIGNED AROUND THE OPERATOR

With the largest cabin entry area in the industry, the operator cabin on the Hyster H25-32XD 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 colour, 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 louvres provide direct air flow toward the operator.

A 7 inch full-colour Integrated Performance Display provides truck performance data in one clear screen.

ERGONOMICS

VISIBILITY

A low profile carriage enables a clear line of vision for an optimised view of fork tips. Forward visibility is uncluttered by the position of hydraulic valves, hoses or mast cross-members with a clear view through the mast window. Canted hoses are arranged along the line of sight so the operator sees only one hose and has good visibility.

Curved, scratch resistant, tempered glass front and rear windshields, armored glass top window and steel-framed glass doors provide operators with excellent all-around visibility. On the exterior, sloping counterweights enhance visibility of steer tyres for improved manoeuvrability and reduced tyre scrubbing.

Optimised view of fork tips

Fully adjustable steering column

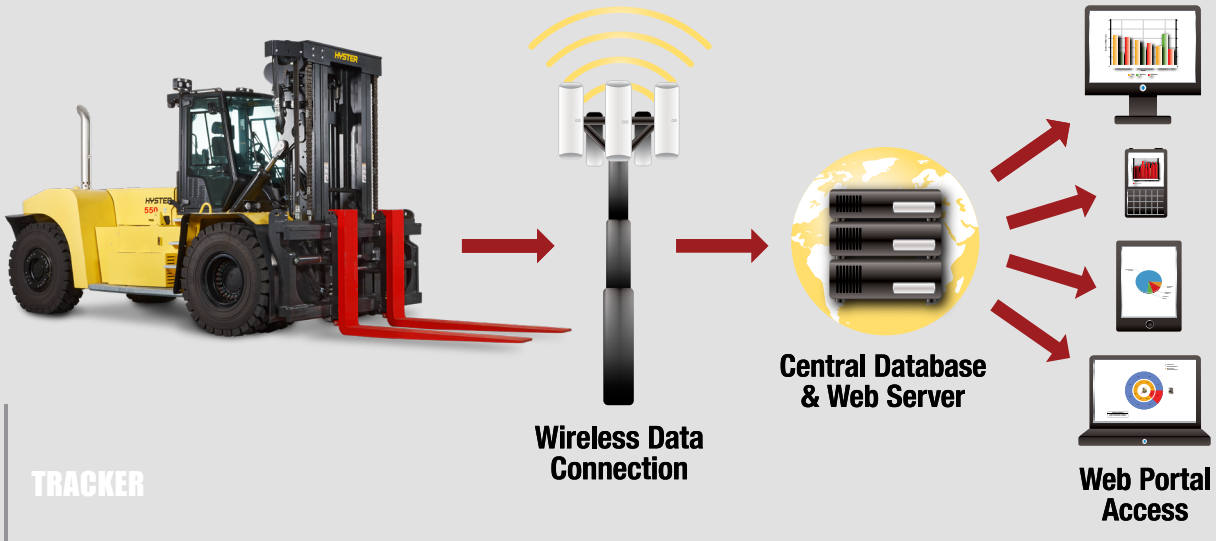
PRODUCTIVITY

AUTO-SHIFTING TRANSMISSION WITH TRUE INCHING

This truck series is equipped with ZF transmissions paired with Mercedes-Benz engines for Stage V or Cummins engines for Stage IIIA trucks to provide inching capability and better controllability. The auto-shift transmissions enable smooth shifts that enhance the longevity of the drivetrain and operator comfort by reducing jolt. Competitor trucks utilise declutch which increases clutch energies on the transmission and creates wear and tear on driveline components.

HYSTER TRACKER™ – WIRELESS ASSET MANAGEMENT

Take your fleet operation to the next level with wireless asset management from Hyster. Hyster Tracker™ provides a scalable solution for fleets. From monitoring truck utilisation to limiting operator access, Hyster Tracker™ allows you to track your fleet at your fingertips.



HYSTER | TRACKER

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