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REACHSTACKER CONTAINER HANDLER

PRODUCT BROCHURE

RS46 SERIES



ENGINEERED TO EXCEL

STRONG TO THE CORE

The durable 2-stage boom design is constructed from T-1 steel, with two plane welding for additional strength. The one-piece frame features reinforced welding of the main sections with heavy duty rear supports and incorporates widely spaced boom towers providing superior torsional rigidity and excellent rear visibility.

The engine protection system is standard, designed to prevent damage due to low oil pressure and high coolant temperatures. 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 if a problem is detected and will derate the engine to creep mode if immediate action is not taken.

HEAVY DUTY STEER AND DRIVE AXLES

The steer axle is engineered for long life and outstanding steering capability. An adjustable outside turning radius is available, helping to reduce stress on the axle and improve tire life by reducing tire scrubbing.

Bolted to the frame, the rugged drive axles are equipped with oil immersed wet disc brakes. The axles are also designed for extended differential fluid change intervals.



HYSTER PATENTED STABILIZER

Hyster developed a unique and patented stabilizer technology for Big Trucks. When operating in second rail and barge handling applications, you're lifting a high capacity at a long load center. Without the right stabilizer design, you could experience high ground loading, low side stability, and tires might be off the ground.

The Hyster stabilizer utilizes dynamic pressure, meaning approximately 24% of the front loading will remain on the front axle, giving extra side stability and lower ground loading. With the Hyster patented system, four tons less weight is required in the counterweight, thereby reducing tire wear on the rear axle.



The heavy duty, innovative stabilizer has rapid deployment, increases lateral stability and reduces tire wear on the rear axle.



TIER 4 FINAL

- Cummins X12 12L 355 hp (380 peak) turbocharged engine with after treatment package featuring a selective catalytic reduction (SCR), diesel oxidation catalyst (DOC), integrated diesel exhaust fluid (DEF) delivery system and a diesel particulate filter (DPF).
- Rugged Spicer Off-Highway Model TE-30 powershift transmission from Dana with proven field experience and reliability
- 226 gallon fuel tank enables up to 48 hour continuous run time between fills; 25 gallon DEF requires refill every other fill of the fuel tank
- Water-cooled wastegate turbocharge available with a delayed engine shutdown feature that reduces potential damage to the turbocharger by allowing it to cool
- On-demand cooling with a variable speed fan that only operates when needed, reducing fuel consumption and lowering noise levels.
- Hibernate idle lowers the engine idle speed from 900 to 700 RPM if no driver input is received after 30 seconds of idling, thereby saving fuel

TIER 3 (IN SELECT MARKETS)

- Cummins X12 12L 350 hp (370 peak) engine with 120 amp alternator
- Spicer Model TE-30 transmission
- Water-cooled wastegate turbocharge available with a delayed engine shutdown feature that reduces potential damage to the turbocharger by allowing it to cool
- On-demand cooling with a variable speed fan that only operates when needed, reducing fuel consumption and lowering noise levels.

TECHNOLOGY THAT KEEPS YOUR COSTS DOWN

HYSTER TRACKER™

Hyster Tracker™ is the remote automated communications platform from Hyster Company enabling wireless asset management for your fleet of trucks. Hyster Tracker™ provides the ability to effectively monitor Key Performance Indicators (KPIs) that eliminate waste and enhance operational efficiency such as number of loads moved, idle times, fault logs, preventive maintenance logs, impact monitoring and load weight tracking among others.

Our Hyster Tracker™ program also enables advanced capabilities such as integration into NAVIS or other Terminal, Port and Warehouse Management Systems. Advanced vehicle monitoring systems including Tire Pressure Monitoring Systems (TPMS) are also available as well as remote fuel consumption tracking. X-Y Location positioning features are available as well so you know exactly where your equipment is located at all times to drive maximum productivity.

RELIABLE AND DURABLE ENGINE DESIGN

- Fueling system allows precise matching of engine RPM to load demands for optimal performance
- Innovative ECO modes: Hi-P and e-Lo (Tier 4 Only)
 - Hi-P provides maximum performance and good fuel economy
 - e-Lo provides 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

AUTOMATIC THROTTLE-UP

Automatic throttle-up enables automatic response to lift inputs from an operator when the lift lever is activated. A single touch lever or joystick controlled rev-up function keeps the engine in the most efficient band to deliver good fuel economy. This helps enhance productivity while providing improved ergonomics. The function only applies when the truck is in neutral.





AUTOMATIC GREASING

An optional automatic greasing system is available. Automatic greasing will significantly lower total cost of ownership by eliminating maintenance costs of manually greasing each component. Completing the greasing process helps to extend the component service life.

ON-DEMAND COOLING SYSTEM

- The 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 powertrain
- Consumes less fuel and lowers noise level compared to Tier 3

ON-DEMAND HYDRAULICS

- Load-sensing on-demand hydraulic system delivers oil flow only when required
- Capable of more oil displacement even at low engine speeds
- Engine runs quieter and at lower speeds, extending the life of major components*
- Less heat is produced, therefore oil and filters last longer. Hoses, seals and components also wear less and last longer
- Uses less fuel (up to 5–10% fuel reduction solely from on-demand hydraulics)

* Less speed means lower fuel consumption. Tier 4 Final engines must run on Ultra Low Sulfur Diesel (ULSD) fuel, with a maximum of 15 ppm sulfur content. Results may vary. Tier 4 Final features may help increase efficiency by delivering lower fuel consumption over Tier 3 products.

DESIGNED FOR OPERATOR COMFORT

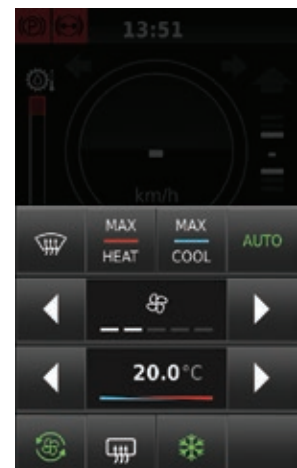
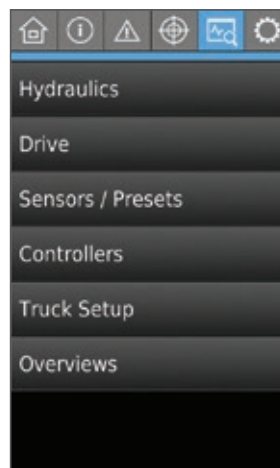
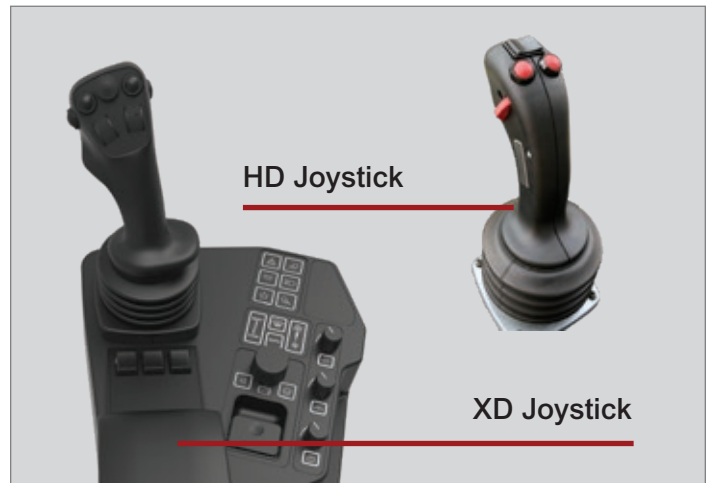
Hyster Company is known for tough lift trucks, but we're also recognized for ergonomically advanced lift trucks. A spacious, comfortable operator environment and an operator interface with ergonomically designed controls helps elevate productivity while minimizing operator fatigue.

The RS46 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.





POWERED SLIDING CAB (OPTIONAL)

- The cab is positioned behind the lift cylinders near the center of the machine. This configuration is often preferred by operators, because it offers the most comfortable viewing angle when stacking containers.
- The cab can be moved to various positions by a convenient switch inside the cab while driving or lifting. The feature accommodates operator preference and provides optimum visibility in a variety of operating conditions.

ALL-AROUND VISIBILITY

- Large windows, fitted with tempered safety glass
- Sloping counterweight enhances rearward visibility
- Length of counterweight extension from rear of the machine kept to a minimum
- Unique boom overhang design behind the boom mount offers maximum rear visibility even when the boom is at maximum raised height. The pivot points for the boom are positioned at the back of the frame to minimize the boom overhang, resulting in a relatively compact machine.

EASE OF INGRESS AND EGRESS

- Large running boards are designed for a high level of slip-resistance and provide easy snow and dirt removal on either side of the truck
- Guard rails with convenient grip handles are strategically placed to guide 3-point contact during truck entry and exit
- Large doors tapered along the front structure of the cab frame with ergonomic locations of grab handles and broad steps further enhance ease of entry and exit
- Optional lights on the left side stairs provide illumination on all four steps as well as the top platform. The lights can be switched on and off at the operator access and inside the cab

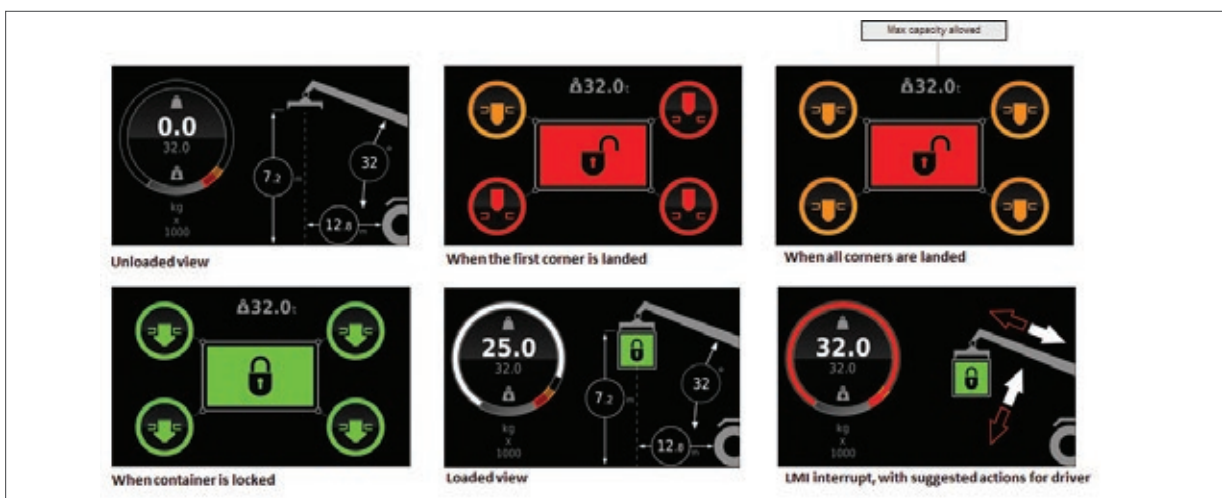
MORE LOADS MOVED PER HOUR

COMPETITIVE LIFT SPEEDS

Hyster® RS46 trucks deliver high productivity with 4-mode average speeds for lifting and lowering under laden and unladen conditions of 82 fpm (0.42 m/sec)—very fast in the industry. Vertical lift is activated by pressing a button/switch on the joystick synchronizing the boom derricking and telescoping functions to keep the bottom of the container parallel with the ground.

REACHSTACKER SPREADERS

- Hyster® ReachStackers feature the Elme Innovation Spreader with vertical twistlocks and strengthened structural parts.
- Spreaders provide easy maintenance access and troubleshooting as well as long service intervals that can lead to less downtime and lower cost of operations.
- The Innovation spreader offers enhancements such as additional and larger wear pads on extension beams, added structural reinforcement to the interface between the extension beam and end beam, relocated sideshift and extension cylinders on the top of the frame for improved service access and lubrication-free twistlocks.
- Automatic locking occurs when the spreader is correctly positioned on the container. Unlocking is only possible by pushing a button in the cab
- Mechanical twistlock interlock helps to fully engage the twistlocks on all 4 corners prior to lifting a container
- A second performance display, mounted in the center of the cab provides twistlock engagement and displays the load moment indicator which aids the operator by sensing the percentage of capacity at which the equipment is working
- Optional automated one-touch spreader extend/retract feature available to automatically extend the spreader to 20 or 40 feet with one touch of the button
- An optional Wide Twistlock Position (WTP) spreader can handle 8'6" as well as standard 8' containers
- An optional powered pile slope (PPS) feature enables mechanical sideways articulation to handle containers from or onto a sloping surface
- Optional lifting eyes available on spreaders allow for maneuvering larger loads, such as wind blades



Twistlock and LMI Display

SIMPLER SERVICEABILITY

EASY ACCESS TO COMPONENTS

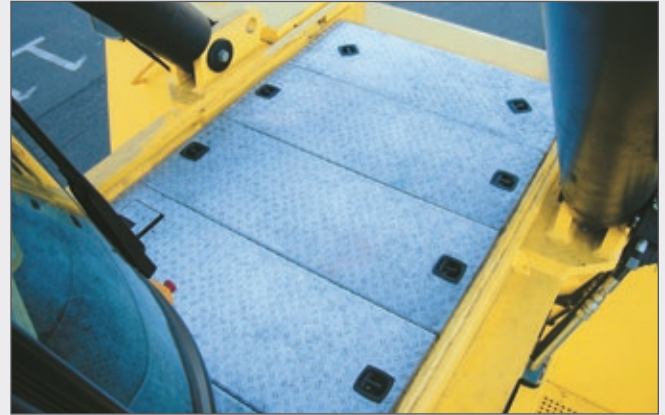
- The hydraulic oil tank features a sight glass for the oil level, as well as magnetic drain plugs
- The sliding cab, in combination with lightweight aluminum floor plate sections, provides quick access for service work
- Easy access to electrical components, oil and air filters
- Access steps to the cab from the left-hand side of the truck are standard. Access steps from the right-hand side are optional

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 items while enabling rapid implementation of remedies, helping reduce downtime and reducing the mean time for repairs.

LONG SERVICE INTERVALS

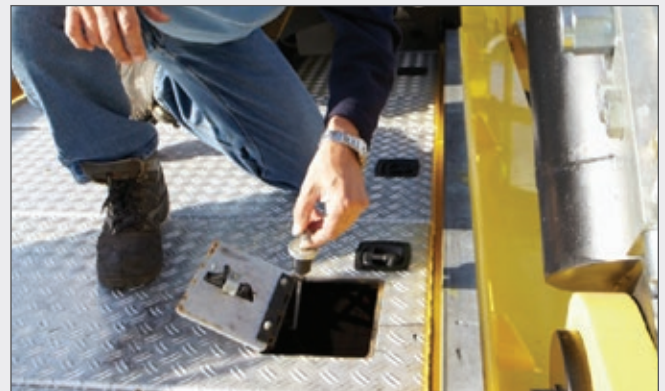
Major engine and drivetrain components are engineered to operate on 500-hour service intervals. Extended hydraulic oil change intervals can allow the truck to remain in operation for longer periods between oil changes or servicing.



Lightweight aluminum floor plates enable quick removal for easy service access.



Battery maintenance



Oil maintenance

VERSATILITY IN APPLICATION

The innovative Hyster ReachStacker is available in a wide range of configurations and options providing unprecedented flexibility to perform tasks in many different applications and industries.



1. Windmill blades
2. Extended legs
3. Barge handling
4. Towers handling
5. Raised cab
6. 2nd rail handling



A Hyster ReachStacker can be equipped with a tool changer attachment giving the operator the ability to more easily and quickly switch between different tools and enable a leaner, more productive fleet for steel operations.



1. Tool changer
2. Container dumping/
tilt spreader
3. Slab magnet
4. Grabber
5. C-hook
6. Coil handling

STEEL HANDLING





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

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Trucks may be shown with optional equipment and/or equipment not available in all regions.