



**STRONG PARTNERS.
TOUGH TRUCKS.™**

RS46 SERIES

REACHSTACKER CONTAINER HANDLERS

WWW.HYSTER.COM

RS46 SERIES REACHSTACKER

Hyster Company's reputation for providing industry leading solutions for a wide range of applications is known worldwide. The Hyster® RS46 container handlers are no exception as they are well-suited for a variety of applications and available in many configurations. With innovation at the heart of every Hyster big truck design, we've delivered one of the most reliable materials handling trucks on the market, with a low cost of ownership and outstanding productivity.

Seven models in the RS46 series are available, all offering capable lifting for stacking and storage of containers in the first row up to 6 containers high. The extendable boom enables container yard operators to stack laden containers up to 3 rows deep. A wide range of configurations and options provide an excellent match to many different applications, which may include intermodal container handling, barge handling, container tipping, steel or wind operations to name just a few.





Versatility is key for the RS46 series. Magnet attachment for handling steel slabs shown.



STRONG TO THE CORE

The durable 2-stage boom design is constructed from T-1 steel, with two plane welding for additional strength. The frame features reinforced welding of the main sections with heavy duty rear supports.

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.

Components last longer with cooler fluid temperatures. That's why Hyster uses a cooling system designed for ambient temperatures of up to 120°F. The puller fan draws cool and clean air, enabling the cooling system to be more effective.

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, reducing stress on the axle and improving 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 their 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. Four tons less counterweight are needed with this Hyster patented system, reducing tire wear on the rear axle.



The heavy duty, innovative stabilizer for our big trucks increases stability and reduces tire wear on the rear axle.



TIER 4 FINAL

- Cummins QSL 9L 350 hp (361 peak) turbocharged engine with after-treatment package (SCR, DOC and DEF)
- Rugged Spicer Off-Highway Model TE-32 powershift transmission from Dana with proven field experience and reliability
- 219 gallon tank enables up to 48 hour continuous run time between fills; 15 gallon DEF requires refill every other fill of the fuel tank
- Water-cooled variable geometry turbocharger (VGT) enhances engine response and improves engine horsepower characteristics
- On-demand cooling in which the fan operates at variable speeds (depending on cooling needs) to ensure that the maximum engine power is available during driving and handling operations, thereby maximizing productivity
- 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
- Reduced fuel consumption with up to 22% total savings in fuel costs

TIER 3 (IN SELECT MARKETS)

- Cummins QSM 11L 300 or 335 hp (365 peak) engine with a 120 amp alternator
- Spicer Model TE-27 or TE-32 transmission
- Water-cooled wastegate turbo
- On-demand cooling in which the fan operates at variable speeds (depending on cooling needs) to ensure that the maximum engine power is available during driving and handling operations, thereby maximizing productivity

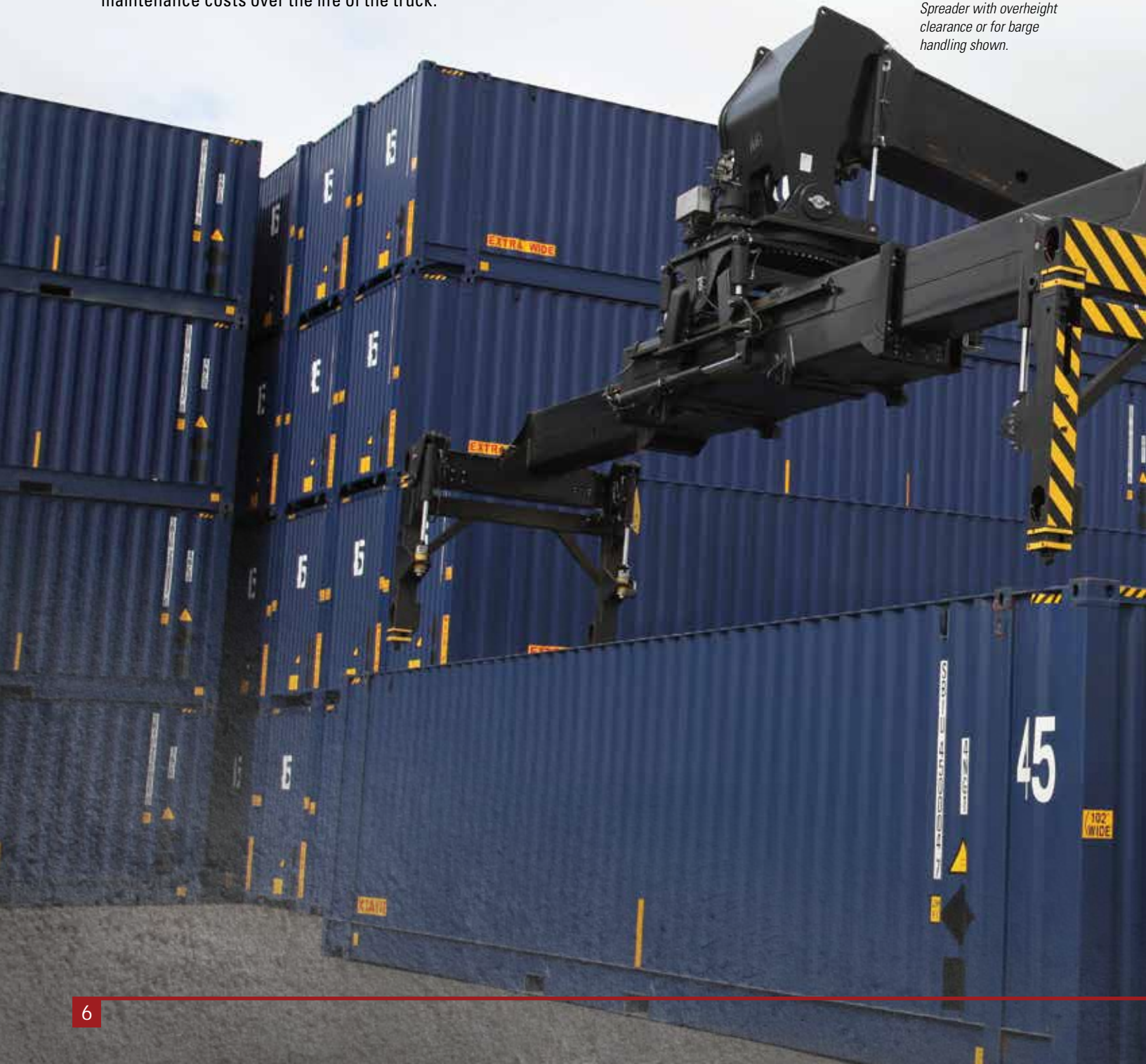
➤ TECHNOLOGY THAT KEEPS YOUR COSTS DOWN

At Hyster, we understand that your total cost of ownership extends beyond just the initial acquisition costs. Fuel consumption is a key driver of the total cost of ownership for high capacity laden container handlers. A harmonized system design which includes automatic throttle-up, on-demand hydraulics, on-demand cooling and hibernate idle to deliver lower fuel consumption on Hyster® trucks under varying load conditions. These Hyster solutions provide significant savings in fuel consumption and maintenance costs over the life of the truck.

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 the noise level.

Spreader with overheight clearance or for barge handling shown.



RELIABLE AND DURABLE ENGINE DESIGN

- Xtra-High Pressure Injection (XPI) fuel system.
- 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 optional empty seat engine shutdown function 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 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).

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 enhances productivity while providing improved ergonomics. The function only applies when the truck is in neutral.

* 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 produced over 5 years ago.



> ERGONOMICALLY ENGINEERED

COMFORCAB II DESIGNED FOR YOU

- A full-suspension, fully adjustable driver's seat with an operator presence system.
- An adjustable steering column, power-assisted steering and lever controls, push-button parking brake and conveniently positioned gauge cluster.
- Wide-angle mirrors inside cab; outside mirrors on front fenders.
- The optional air conditioning system with manual temperature control and air circulation fan is integrated into the heating and ventilation system.
- Proportional controls for the spreader rotation function and Powered Pile Slope (PPS optional).

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 4 or 5 high.
- 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.
- Rearward sloping counterweight enhances 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 ensure 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.





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.



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

ON-BOARD DIAGNOSTICS

CANbus on-board diagnostics with fuses centrally located in the side console make for easy servicing and troubleshooting. Error codes are provided on an LCD display for quick and effective identification of service items while enabling rapid implementation of remedies, reducing downtime and reducing the mean time for repairs.



Battery Maintenance

LONG SERVICE INTERVALS

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

AUTOMATIC GREASING SYSTEM

An optional automatic greasing system is available on the base truck and outer boom. Additional auto-greasing capability is available for the inner boom and spreader.



Oil Maintenance

HYSTER TRACKER

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 utilization to limiting operator access, Hyster Tracker allows you to track your fleet at your fingertips.

➤ MORE LOADS MOVED PER HOUR

AUTOSHIFT TRANSMISSION

Hyster® ReachStackers feature the Spicer Off-Highway TE series powershift 4 speed auto-shifting transmission equipped with APC 200 electronic controllers.

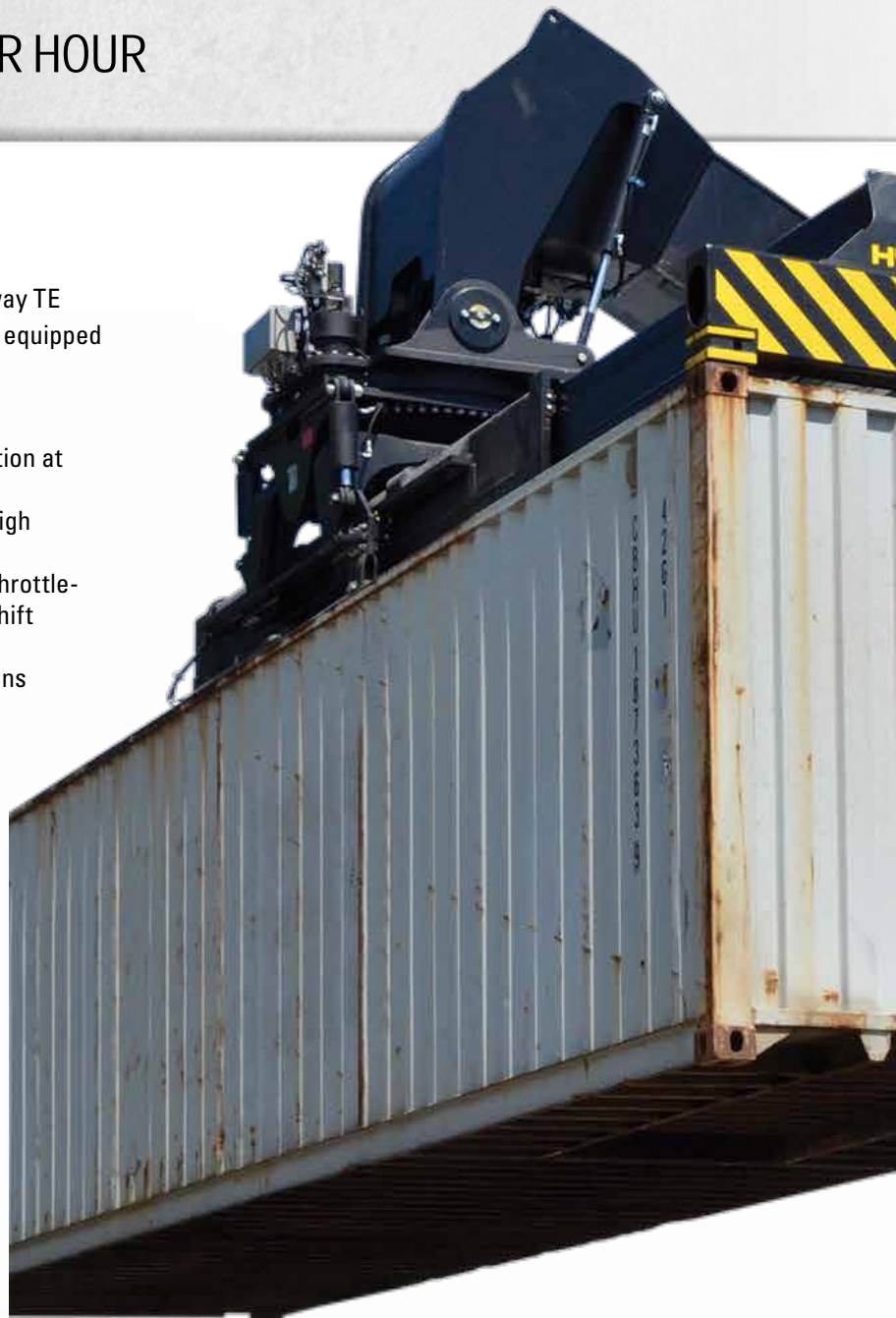
- Fully electronically controlled.
- Forward/reverse lockout prevents change of direction at high speeds.
- Transmission protection system protects against high temperature and high/low oil pressure.
- “Soft-shift” characteristic features an electronic throttle-back function during gear change that eliminates shift shock on the driveline.
- Auto-shifting transmissions are paired with Cummins engines to provide inching capability and better control.

COMPETITIVE LIFT SPEEDS

Hyster® RS46 trucks deliver high productivity with 4-mode average speeds for lifting and lowering under laden and unladen conditions of 81 fpm (0.41 m/sec)—very fast in the industry.

REACHSTACKER SPREADERS

- Hyster® ReachStackers feature spreaders with vertical 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 ensure that twistlocks are fully engaged on all 4 corners prior to lifting a container.
- Twistlock module features indicator lights (1 red, 2 orange and 1 green) on the spreader and in the cab to ensure safe and productive operation.
- An optional powered pile slope (PPS) feature enables mechanical sideways articulation to handle containers from or onto a sloping surface.
- A container counter is on the spreader.



Twistlock module with indicator lights



Tool Changer



Tilt Spreader

INNOVATIVE TRUCKS ENGINEERED TO MEET THE MOST DEMANDING APPLICATIONS

For more than 80 years, Hyster has been conquering the world's most demanding applications. In the 1920's 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 — gasoline, LPG, diesel and electric — 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.



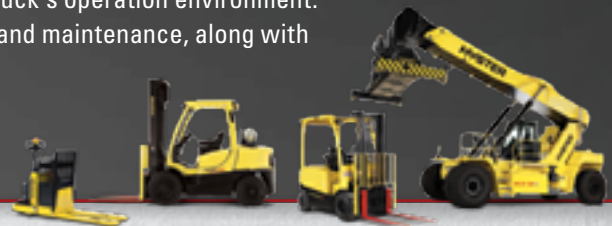
Special Products Engineering Department (SPED) — Different materials require different handling. That's why we can work with you to customize your lift trucks. From strobe lights to specially made forks, SPED has the tools to help you get the job done right.



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.



Hyster Company
P.O. Box 7006
Greenville, North Carolina
27835-7006
Part No. RS46/B
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Visit us online at www.hyster.com or call us at **1-800-HYSTER-1**.

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