



**STRONG PARTNERS.  
TOUGH TRUCKS.™**



## S135-155FT SERIES

SIT-DOWN, COUNTERBALANCED, IC, CUSHION TIRE

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



## POWER TO HANDLE YOUR TOUGHEST APPLICATIONS

The Hyster® S135-155FT Fortis® lift truck series represents a transformation in how lift trucks are designed, built and acquired. Drawing on the Hyster legacy of strength, durability and toughness, the Fortis® concept means low cost of operations, dependability and owning a unit that's still going strong long after the day's work is done.

The S135-155FT series is configured to provide the right lift truck for your application. Our truck packages, with multiple powertrain combinations from which to choose, help ensure that your cost of operations will be lowered. Each configuration offers improved efficiency, advanced dependability and simple serviceability.



## ➤ WANT TRUCKS YOU CAN RELY ON SHIFT AFTER SHIFT?

Approximately 70% of industrial lift truck downtime results from problems with the powertrain, brakes, electrical system, cooling system or hydraulic system. With the S135-155FT, many of these mechanical issues become a thing of the past as design advances have reduced downtime by up to 30%.



### HASSLE-FREE HYDRAULICS

- Leak-free O-ring face seal fittings reduce leaks for enhanced reliability.
- A 10-micron high-performance in-tank filtration system captures 99.5% of hydraulic system debris, and increases hydraulic fluid filtration by 60%.
- Smart placement of the control valve and hydraulic lines away from heat sources reduces operating temperature, extending the life of seals and hoses.
- Electronic hydraulic control valve precisely manages hydraulic pressure and flow to supply exactly the right amount of power for each function, reducing fuel consumption.
- Optional load-sensing on-demand hydraulic system delivers oil flow only when required, using less fuel and producing less heat while extending system life.

### TOUGHEST POWERTRAIN

- Transmission gears and shafts are up to 15% stronger to handle even the most demanding duty cycle.
- Electronically controlled powershift transmissions have state-of-the-art clutch packs that are stronger and larger and provide up to 3 times the life.
- Kubota turbo diesel engine provides advanced combustion technology that enhances fuel economy.
- Diesel radiators for diesel powertrains feature air to air intercoolers to increase efficiency and reduce emissions.
- The elastomeric-mounted, Hyster-designed, cast ductile iron steer axle with transverse, double-acting hydraulic cylinder, tapered roller spindle support bearings and non-adjustable tie rods provide maximum durability and superior steering control for easy maneuvering and low maintenance.
- The drivetrain is fully isolated through the use of elastomeric mounts for the engine and transmission.
- The full floating design of the planetary drive axle lets the axle housing, not the shafts, carry the weight of the load, enhancing dependability and reliability for a longer service life.
- Emissions system features a diesel oxidation catalyst (DOC) that captures and oxidizes particulate matter (soot). The Kubota 3.8L DOC engine provides maintenance-free emissions—no need to add fluids or remove filters for cleaning.

### INDUSTRIAL STRENGTH ELECTRONICS

- CANbus communications network reduces wiring complexity, providing superior dependability.
- Non-mechanical, Hall Effect sensors and switches are designed to outlast the life of the truck.
- IP66 sealed electrical connectors keep out water and debris, so you can powerwash your trucks.
- Smart, one-way routing path for wire harnesses ensures consistent high-quality assembly while increasing durability and simplifying maintenance when needed.

## EXCEPTIONAL COOLING

- Combi-cooler radiator provides 4-row aluminum core for additional transmission oil cooling capacity.
- Soft rubber isolator mounted radiators extend service life.
- The counterweight tunnel design coupled with a "pusher" type fan and enhanced shroud design improved airflow and significantly reduces the recirculation of hot air.
- Optional on-demand cooling system:
  - Reduces overheating.
  - Automatically reverses fan direction every 20 minutes to clear radiator of debris.
  - Extends overall truck service life by keeping major components running in their optimum temperature ranges.

## DEPENDABLE BRAKES

- Auto Deceleration System extends brake life by up to 60% by automatically slowing the truck when the accelerator pedal is released. (DuraMatch™)
- A programmable controlled power reversal feature virtually eliminates tire spin, increasing tire life by up to 50%.
- Self-adjusting and self-energizing, standard oil-cooled wet disc brakes provide excellent stopping power and extremely long service life. Brakes are completely sealed from water and dirt, making them ready for harsh environments.

## EASE OF SERVICEABILITY

- Pacesetter VSM continuously monitors fluid levels and powertrain, reducing daily service checks and preventing major repairs.
- Kubota turbo diesel engine features 500 hour service intervals.
- Easy-to-remove one-piece floor plate (no tools required).
- Engine cover is made of a durable, crack-resistant, thermoset polyester resin reinforced with fiber glass. Hinged at the rear, it offers service access to the engine compartment with an opening angle of 85 degrees.
- Optional EZXchange™ bracket swings out from over the top of the counterweight and the gas-spring assisted fuel cylinder lowers into a reclined and locked position, providing a stable platform for quick, easy LP tank replacement.



## SUPPORTING CUSTOMERS WITH WORLD-CLASS PARTS & SERVICE

Four Parts Distribution Centers strategically located around the world provide a full range of original equipment and aftermarket parts that help maintain our customers' uptime. In fact, our Guaranteed Availability Program ensures that parts that are normally required in the first 2 years of operation will be available from your Hyster® parts dealer within 24 hours or they are free.\* We also take that commitment into the field with the Hyster CERTECH® Certification training program. This technical training program provides both systems level as well as product-specific education to ensure lift trucks are repaired right the first time.

\* Contact your local dealer for program details.

## ➤ WELL-DESIGNED ERGONOMICS BOOSTS PRODUCTIVITY

➤➤ The unique grid-style overhead guard pattern improves visibility while protecting operators and strengthening the truck's structure. The front, curved leg design affords greater shoulder clearance for easier operator entry and exit.

➤➤ Rear drive handle mounted on overhead guard leg (optional) provides an excellent hand hold for reverse driving while giving ready access to the auxiliary horn button for use when approaching cross-aisles and pedestrian traffic areas.

➤➤ The standard swing-out bracket frees the LP tank from over the counterweight to simplify changeout.

➤➤ Low noise level at the operator's ear lessens driver fatigue, improving driver satisfaction for an overall increase in productivity.

➤➤ Choice of 5 different seats enables a more customizable level of operator comfort by its enhanced design and adjustable features.

➤➤ Advanced dash display uses a non-reflective, backlit LCD screen, and 21 indicator lights provide performance at-a-glance in all lighting conditions. An optional premium monitoring package reports air and hydraulic filter restrictions and low engine coolant levels.

➤➤ Entry and exit are made easy by the optimized step height with non-slip step tread, soft touch contoured hand grip and rounded hood.

➤➤ Isolated drivetrain minimizes the effect of powertrain vibration and road-born shocks to increase operator comfort all shift long





« The infinitely adjustable tilt steer column accommodates operators easily. Assisted by a gas-spring and an easy-to-reach lever, obtaining your preferred position is simple. The standard 12-inch steering wheel with integrated spinner knob reduces fatigue while providing more knee room. And it goes lock-to-lock in just 4 turns for superior efficiency, maneuverability and control.

« Exclusive VISTA™ Mast features high strength hot-rolled steel mast channels and flush-faced design improve capacity retention at high lifts. Compact cast steel cross members optimize visibility and rigidity.

« The Hyster® Fortis® line of lift trucks offers two configurations that employ cowl mounted levers or TouchPoint mini-levers to provide you unsurpassed, low effort, tactile control of all hydraulic functions.



« Adjustable armrest that accompanies the optional TouchPoint e-hydraulic control moves with the seat and telescopes forward/vertical in one simple movement to provide greater flexibility in achieving a more custom position.

« Brake pedal layout increases floor space. Reduced braking requirements of the Auto Deceleration System reduce operator fatigue. (DuraMatch™)

## ➤ CUSTOMIZABLE PERFORMANCE

### WHAT IF YOU COULD OPTIMIZE YOUR PERFORMANCE TO YOUR APPLICATION?

- S135-155FT series options of high output engines, performance transmissions, hydraulic controls and cooling system allow you to customize your truck to optimize the productivity in your application.
- Both engine choices provide enhanced fuel efficiency so you can get more loads moved on a single tank.
- Pacesetter VSM industrial on-board computer enables you to adjust and optimize the performance of your S135-155FT trucks.
- Patented DuraMatch™ transmission provides breakthrough features that include the Auto Deceleration System, controlled rollback on ramps, and controlled power reversals help you to move loads more efficiently with less operator fatigue and product damage.
- With the exceptional cooling and its ability for extended draw bar pull, the S135-155FT series will continue to perform when competitors' lift trucks may fail.

### OPERATOR CONTROL

Superior ergonomic features like more foot and leg room, 2 choices of hydraulic controls, infinitely adjustable steer column, integrated dashboard display, 12-inch steering wheel with spinner knob, Auto Deceleration System, EZXchange™ tank bracket (optional), 5 choices of seats and the rear drive handle enable your operator to maximize productivity.



## HYSTER® VARIABLE POWER TECHNOLOGY™

Optional Hyster® Variable Power Technology™ provides adjustable performance modes that allow customers to maximize productivity or fuel economy to fit their specific application requirements. With selectable performance modes, the S135-155FT series can be tailored to achieve a balance of enhanced performance and superior fuel economy, or to boost productivity during peak business periods when moving more loads is integral to the success of your operation.



## AT-A-GLANCE FEATURES

### STANDARD EQUIPMENT

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PSI industrial 4.3L, V-6 emissions compliant engine

Electronic powershift transmission

- Hydraulic inching
- Electronic shift control
- 2 speeds forward, 2 speeds reverse

Oil-cooled wet disc brakes

MONOTROL® pedal

2-Stage limited free-lift (LFL) VISTA™ mast with maximum fork height of 133" (2400 mm)

48.0" (1219 mm) wide hook-type carriage with 48.0" (1219) tall load backrest extension

48.0" (1219 mm) long forks

6 degrees forward and 10 degrees backward mast tilt

3-function hydraulic control valve

Integrated dashboard display includes:

LCD display:

- Fuel level (gasoline or diesel only)
- Hour meter
- Coolant temperature
- Clock
- Messages

Service indicator lights:

- Alternator
- Transmission oil temperature
- Engine oil pressure
- Brake fluid level

– Fasten seat belt

– Low fuel level

– Engine malfunction

– System malfunction

– Park brake

– Coolant temperature

– Forward, reverse and neutral direction indicators

Hydrostatic power steering

Non-suspension vinyl seat

No-cinch seat belt

Electronic horn

Adjustable steer column

Rubber floor mat

High air intake

Integral tie downs

Operator restraint system

Combi-cooler radiator

Single pedal inch brake

Hyster Stability System (HSS®)

Cowl-mounted hydraulic control levers

Swing out LPG tank bracket

Pressure sensing low LPG fuel sensor

91" (2302 mm) tall overhead guard

12 mo. / 2,000 hr. manufacturer's warranty

36 mo. / 6,000 hr. manufacturer's powertrain warranty

Operator's manual

UL Classification LP

### OPTIONAL EQUIPMENT

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3.8L Kubota turbo diesel engine

- Maintenance-free emissions system
- Hyster® Variable Power Technology™ with two performance modes

DuraMatch™ transmission

- Auto deceleration system
- Controlled power reversal feature
- Controlled roll back on ramps
- 3 speeds forward, 2 speeds reverse
- Higher travel speed and gradeability

Powertrain protection system

Premium monitoring

High air intake with pre-cleaner

Accumulator

Keyless start (with auxiliary key switch)

Optional short height overhead guard

Powertrain protection system

Paper applications kit

Vented hood

Heavy duty engine modification

Swing-out, drop-down EZXchange™ LPG tank bracket

Optical sensing low LPG fuel sensor (DuraMatch™)

Return to set tilt

TouchPoint electro-hydraulic mini-lever controls

- fully adjustable armrest
- on-demand hydraulic system

Rear drive handle with horn button

Full suspension seat - vinyl or cloth

Swivel full-suspension seat - vinyl or cloth

On-demand cooling system

High-visibility non-cinch seat belt with or without interlock

Impact monitor

Load weight display

Operator pre-shift checklist

Lever shift directional control

Seat side directional control mounted on TouchPoint

e-hydraulic control armrest

Dual-inch brake pedals

Operator password protection

Audible reverse activated 82-102 dB(A) self-adjusting alarm

Visible amber strobe light - continuously activated, overhead guard mounted

Parts publications - printed or CD, serial number specific

UL Classification LPG, D, DS

Various light packages with halogen or high intensity LED's

Non-marking smooth tires

# 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.



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

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