Sit-Down, Counterbalanced IC, Pneumatic Tire FORTIS® Line

H170-190FT Series

STRONG PARTNERS. TOUGH TRUCKS.™
The H170-190FT Fortis® is more than a new lift truck series. It represents a transformation in how lift trucks are designed, built and acquired. Drawing on Hyster Company’s legacy of strength, durability and toughness, the H170-190FT series means low cost of operations, dependability and owning a unit that’s still going strong long after the day’s work is done.

The H170-190FT is a versatile lift truck designed for indoor and outdoor use, and this truck series is ideally suited for a wide variety of applications such as Lumber, Steel, Concrete, and Car Salvage. These trucks are loaded with power utilizing the Kubota 3.8L EPA Certified Tier 4 interim Turbodiesel engine. The H170-190FT was configured with a new drive axle and cooling system that will take Fortis performance to a whole new level. The new VISTA® mast was designed to accommodate heavy loads and multiple attachment configurations.

Key standard features of the new H170-190FT include:
- Kubota 3.8L EPA Certified Tier 4 interim 110 HP Turbodiesel engine
- DuraMatch™ transmission
  - 3-forward speeds and 2-reverse
  - Controlled power reversal
  - Auto deceleration system
- Oil-cooled wet disc brakes
- Full suspension vinyl seat
- TouchPoint™ E-hydraulic controls
- System Monitoring
Overhead Guard (OHG)
The unique grid-style pattern improves visibility while protecting operators and strengthening the truck’s structure. The front, curved OHG leg design affords greater shoulder clearance for easier operator entry and exit. The optional Cab includes an integral heater, front & rear wiper/washers, removable doors with sliding windows, interior light, air circulating fan, insulating headliner and a full light package.

Hydraulic Controls
The Hyster® Fortis® line of lift trucks utilizes TouchPoint™ mini-levers to provide unsurpassed, low effort, tactile control of all hydraulic functions.

Exclusive VISTA® Mast
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. Six 3-inch full-face load rollers roll on the web and the flange simultaneously.

Tilt Steer Column
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.

Pacesetter VSM™
The computer “brain” of the Fortis® line of lift trucks manages all vehicle systems to optimize performance and significantly increase overall reliability and enhance diagnostic capabilities for maximum uptime.

Hassle-Free Hydraulics
Use of leak-free O-ring face seals helps maximize uptime. In-tank filter increases hydraulic fluid filtration by 60% for particles down to 10 microns, significantly extending component life and creating a cleaner overall operation.

Trucks shown with optional equipment.
**Carriage**
The Fortis H170-190 features a robust 80" hook carriage with excellent visibility and the strength to handle long forks or tough attachment applications.

**Heavy-duty Drive Axle**
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.

**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 your harshest environments.

**Hydrostatic Steer Axle**
The 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.

**Counterweight**
The superior design permits a significant increase in airflow to assist the Fortis line of lift trucks to run cooler, even in extreme temperatures and environments.

**Gull-wing Hood**
Gull-wing hood doors feature gas springs to assist opening, and holds covers in place without prop rods or having to remove panels.

**Brake/Backup Lights**
For superior functionality, the optional Hyster LED brake/backup lights resist vibration and offer extremely long life.

**Fatigue-Reducing Operator Compartment**
Ergonomically designed compartment plays a big role to enhance overall productivity. Entry and exit are made easy by the optimized step height with non-slip step tread, soft touch contoured hand grip and rounded hood. Repositioned foot pedals provide improved floor space, while better engine cooling keeps operators more comfortable. Infinitely adjustable tilt steer column accommodates any size operator. A formed fiberglass liner provides increased noise suppression for a more comfortable ride.
Decrease Downtime By Up To 30%
Approximately 70% of industrial lift truck downtime results from problems with the powertrain, brakes, electrical system, cooling system or hydraulic system. With the H170-190FT, many of these mechanical issues become a thing of the past as design advances have reduced downtime by up to 30%.

Toughest Powertrain
- Pacesetter VSM™ industrial onboard computer monitors and protects the engine powertrain to maximize the H170-190FT series uptime.
- 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.
- 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 your harshest environments.

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.
- Proven tough, Pacesetter VSM industrial onboard computer manages truck operation to maintain world-class dependability to maximize uptime.
- IP66 sealed electrical connectors keep out water and debris, so you can power wash our trucks.
- Smart, one-way routing path for wire harnesses ensures consistent high-quality assembly while increasing durability and simplifying maintenance when needed.

Exceptional Cooling
- Standard Combi-cooler radiator provides 3-row aluminum core for additional transmission oil cooling capacity for the most demanding and intensive applications.
- Soft rubber isolator mounted radiators increase reliability and durability to significantly extend service life.
- A superior counterweight tunnel design coupled with a “pusher” type fan and enhanced shroud design improves airflow and significantly reduces the recirculation of hot air to maximize cooling capabilities.

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, significantly extending component life.
- Smart placement of the control valve and hydraulic lines away from heat sources reduces operating temperature, extending the life of seals and hoses for unbeatable reliability.
Lowering operating costs in all types of applications is what the Hyster® H170-190FT Fortis® series does best. With up to a 30% decrease in downtime, the Hyster H170-190FT Fortis series is an exceptionally smart choice. The H170-190FT series is configured to provide improved efficiency, while enhancing reliability and superior serviceability to reduce your operating costs.

**World-Class Efficiency**
- **Auto Deceleration System** extends brake life by up to 60% by automatically slowing the truck when the accelerator pedal is released.
- **Controlled power reversal feature** virtually eliminates tire spin, increasing tire life by up to 50%. This feature is programmable to match the needs from delicate to more aggressive settings for maximum productivity.
- **Electronic hydraulic control valve** precisely manages hydraulic pressure and flow to supply exactly the right amount of power for each function, reducing fuel consumption.
- **Kubota 3.8L EPA Certified Tier 4 interim Turbodiesel engine** features 500 hour service intervals.
- **Hydraulic oil change interval** extended from 2,000 to 4,000 hours.
- Improved engine options provide excellent performance with advanced combustion technology that enhances fuel economy.

**Advanced Dependability**
- **Toughest Powertrain:** Electronic controlled transmissions reduce shock loading; clutch packs with 3 times the life; 15% stronger gears and shafts; and Hyster oil-cooled wet disc brakes all work to provide unmatched reliability.
- **Industrial Strength Electronics:** CANbus communications, non-mechanical sensors and switches and IP66 rated sealed connections mean electrical problems are a thing of the past.
- **Industrial Cooling:** The H170-190FT series’ superior airflow and heavy-duty cooling systems keep heat in check, while providing world-class dependability in even the harshest of environments.
- **Hassle-free Hydraulics:** Leak-free O-ring face seal fittings at all high pressure connection points, superior filtration (10 micron) system and smart placement of valve and lines take the worry out of hydraulics.

### DOWNTIME IS COSTLY

<table>
<thead>
<tr>
<th>Estimated Costs per Downtime Event:</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Repair Costs (parts &amp; labor)</td>
<td>$500</td>
</tr>
<tr>
<td>Idle Operator Costs</td>
<td>+ $60</td>
</tr>
<tr>
<td>Truck Rental Costs</td>
<td>+ $120</td>
</tr>
<tr>
<td>Administrative Costs</td>
<td>+ $50</td>
</tr>
<tr>
<td><strong>TOTAL COST (per Downtime Event)</strong></td>
<td>$730</td>
</tr>
<tr>
<td><strong>Additional Costs:</strong></td>
<td>+ $</td>
</tr>
<tr>
<td>Lost Productivity and Sales</td>
<td>$??</td>
</tr>
</tbody>
</table>

**Assumptions:**
1. Operator Cost = $15.00/hr.
2. Average Length of Downtime Event = 4 hrs.
Superior Operator Comfort

- Low noise level at the operator’s ear lessens driver fatigue, improving driver satisfaction for an overall increase in productivity.
- Isolated drivetrain minimizes the effect of powertrain vibration and road-born shocks to increase operator comfort all shift long.
- 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.
- An infinitely adjustable steer column and optional full suspension swivel seat assures the right fit for any operator.
- Easy-to-use 3-point entry design of operator compartment uses a large molded hand grip and open non-slip steps with a low step height to minimize muscle/joint strain during entry/exit.
- Adjustable armrest that accompanies the 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.
- Choice of 4 different seats enables a more customizable level of operator comfort by its enhanced design and adjustable features.
- Increased shoulder clearance – a result of the redesigned overhead guard and more floor space – gives operators greater foot room.

Precise, Effortless Operation

- Improved brake pedal layout and the reduced braking requirements of the Auto Deceleration System significantly reduce operator fatigue.
- 12-inch steering wheel with spinner knob improves steering response, increasing control and efficiency while minimizing shoulder strain with only 4 turns lock-to-lock.

Performance At-A-Glance

- Advanced dash display uses a non-reflective, backlit LCD screen and 21 indicator lights provide performance at-a-glance in all lighting conditions.
- Easy-to-use onboard diagnostics through the advanced dash display provide fast and accurate troubleshooting for first-time fixes.
- Optional premium monitoring package reports air and hydraulic oil filter restrictions and low engine coolant levels.
Increase Throughput and Sales Volume While Reducing Operating Costs

Productivity means moving more of your loads in less time with less cost. The Hyster® Fortis® series has been proven to lead the industry in productivity through performance, ergonomics (operator comfort and control), service, uptime and dependability.

Performance For Your Application

- H170-190FT series with high output engine, performance transmission, hydraulic controls and cooling system allows you to optimize productivity in your application.
- Kubota 3.8L EPA Certified Tier 4 interim TurboDiesel engine features electronically controlled high-pressure common-rail fuel system controls combustion rate to improve fuel efficiency and reduce noise.
- Pacesetter VSM™ industrial onboard computer enables you to adjust and optimize the performance of your H170-190FT trucks.
- Patented DuraMatch™ transmission provides breakthrough features that include the Auto Deceleration System, controlled rollback on ramps, controlled power reversals to move loads more efficiently with less operator fatigue and product damage.
- With the exceptional cooling and its ability for extended drawbar pull, the H170-190FT series will continue to perform when other lift trucks may fail.

Superior Operator Control

- Superior ergonomic features like more foot and leg room, standard TouchPoint mini-lever hydraulic controls, infinitely adjustable steer column, integrated dashboard display, 12-inch steering wheel with spinner knob, Auto Deceleration System, 4 choices of seats and the rear drive handle enable your operator to maximize productivity.

Superior Serviceability

- Easy access, daily service checks easily located and accessed, the integral dashboard display’s onboard diagnostic capabilities and reduced service requirements significantly minimize service times to maximize uptime.

---

**ESTIMATED ANNUAL LIFT TRUCK OPERATOR COSTS**

<table>
<thead>
<tr>
<th>Costs Related To Fatigue</th>
<th>Average Annual Cost Per Lift Truck Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absenteeism¹</td>
<td></td>
</tr>
<tr>
<td>Turnover²</td>
<td></td>
</tr>
<tr>
<td>Lift Truck and Property Damage³</td>
<td></td>
</tr>
<tr>
<td>Workers Compensation⁴</td>
<td></td>
</tr>
<tr>
<td>Productivity/Lost Sales</td>
<td></td>
</tr>
<tr>
<td></td>
<td>$6,862</td>
</tr>
</tbody>
</table>

**Potential Savings Level**

<table>
<thead>
<tr>
<th>Average Annual SAVINGS Per Lift Truck Operator</th>
</tr>
</thead>
<tbody>
<tr>
<td>Savings at 10% - 20%</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>

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¹ Absentee cost based on national average as published in Facility Management safety study, 2003.

² Average turnover cost according to U.S. Dept. of Labor 2002, 30% of income at $15/hour for 2,000 hours per year.

³ Lift Truck and Property Damage based on data from NMHG Fleet Services.

⁴ Workers Compensation costs are average costs for high and low fatigue environments according to 2004 Shiftwork Practices Survey.
EXTRAORDINARY SUPPORT

The Fortis® line of lift trucks represents a breakthrough in how Hyster® lift trucks are being designed, built and acquired. But even the toughest, most durable machine with moving parts will need service at some point. As your strong partners, we are committed to delivering extraordinary aftermarket support to the H170-190FT series that includes a parts availability program which is the fastest and most comprehensive in the industry today – to keep your materials moving at the speed of business today and tomorrow.

Objective:
• To provide world-class product support unparalleled in the industry.

Performance Plus™ Parts Guarantee:
• Off-the-shelf availability guarantee on the parts commonly required in the first two years of use.
• Simply stated, if “Performance Parts” are not available from your local Authorized Hyster Dealer within 1 business day from the date of order – they are free.*
• Please contact your local Hyster Dealer for the details.

Industry’s Best Warranty:
• One year/2,000 hours on full truck.
• Two years/4,000 hours on powertrain.

Best In Class Serviceability:
• Designed to be one of the fastest and easiest lift trucks to service.
• State-of-the-art on-board and PC-based diagnostics available.
• Significantly reduced regular service requirements.

Most Experienced Dealer Network:
• Over 230 dealer locations in North America.
• Dealers average over 30 years of materials handling experience.
• Over 2,500 trained service technicians.
• Rental fleet of over 14,000 lift trucks.

*Contiguous 48 states of the U.S.A. only
HEAD CLEARANCE (see chart above)

---

<table>
<thead>
<tr>
<th>Seat Type</th>
<th>Standard OHG*</th>
<th>Optional Cab*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full-Suspension</td>
<td>38.0 (965.2)</td>
<td>38.0 (965.2)</td>
</tr>
<tr>
<td>Swivel Full-Suspension</td>
<td>38.0 (965.2)</td>
<td>38.0 (965.2)</td>
</tr>
</tbody>
</table>

Seat in depressed position*

Circled dimensions correspond to the line numbers on the tabulated chart inside the Technical Guide. Dimensions are in inches (millimeters).
### H170-190FT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Parameter</th>
<th>H170FT</th>
<th>H175FT</th>
<th>H190FT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power Train - Engine</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Type</td>
<td>3.8L EPA Certified Tier 4 (i)</td>
<td>3.8L EPA Certified Tier 4 (i)</td>
<td>3.8L EPA Certified Tier 4 (i)</td>
</tr>
<tr>
<td><strong>Transmission Type</strong></td>
<td>Electronic Powershift</td>
<td>Electronic Powershift</td>
<td>DuraMatch™</td>
</tr>
<tr>
<td><strong>Load capacity (lbs/kg)</strong></td>
<td>17,000 (7,681)</td>
<td>17,500 (8,000)</td>
<td>19,000 (8,613)</td>
</tr>
<tr>
<td><strong>Load center (in)</strong></td>
<td>24 (600)</td>
<td>36 (900)</td>
<td>24 (600)</td>
</tr>
<tr>
<td><strong>Drive Power Type</strong></td>
<td>Gas, Diesel, LPG</td>
<td>Diesel</td>
<td>Diesel</td>
</tr>
<tr>
<td><strong>Operation - Seated Rider</strong></td>
<td>Seated Rider</td>
<td>Seated Rider</td>
<td>Seated Rider</td>
</tr>
<tr>
<td><strong>Step Height from ground to running board</strong></td>
<td>12.6 (321)</td>
<td>12.6 (321)</td>
<td>12.6 (321)</td>
</tr>
<tr>
<td><strong>Step Height (seated intermediate steps when running board and floor)</strong></td>
<td>10.1 (256)</td>
<td>10.1 (256)</td>
<td>10.1 (256)</td>
</tr>
<tr>
<td><strong>Tire Pressure</strong></td>
<td>Pneumatic</td>
<td>C-rims, S-supercross</td>
<td>Pneumatic</td>
</tr>
<tr>
<td><strong>Number of wheels, front/rear (X = driven)</strong></td>
<td>4X/2</td>
<td>4X/2</td>
<td>4X/2</td>
</tr>
<tr>
<td><strong>Facility lift height (Round Down)</strong></td>
<td>29b (741)</td>
<td>29b (741)</td>
<td>29b (741)</td>
</tr>
<tr>
<td><strong>Lift height, w/LBR (TOF) (Round Down)</strong></td>
<td>32b (818)</td>
<td>32b (818)</td>
<td>32b (818)</td>
</tr>
<tr>
<td><strong>Load center</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Load center in (mm)</strong></td>
<td>219 (5565)</td>
<td>219 (5565)</td>
<td>219 (5565)</td>
</tr>
<tr>
<td><strong>Electronic Powershift</strong></td>
<td>Electronic Powershift</td>
<td>Electronic Powershift</td>
<td>DuraMatch™</td>
</tr>
<tr>
<td><strong>Engine Certification</strong></td>
<td>Kubota</td>
<td>Kubota</td>
<td>Kubota</td>
</tr>
<tr>
<td></td>
<td>3.8L Diesel</td>
<td>3.8L Diesel</td>
<td>3.8L Diesel</td>
</tr>
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<td><strong>Load center in (mm)</strong></td>
<td>219 (5565)</td>
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<tr>
<td></td>
<td>3.8L Diesel</td>
<td>3.8L Diesel</td>
<td>3.8L Diesel</td>
</tr>
<tr>
<td><strong>Load center in (mm)</strong></td>
<td>219 (5565)</td>
<td>219 (5565)</td>
<td>219 (5565)</td>
</tr>
</tbody>
</table>

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**Certification:** These Hyster lift trucks meet design specifications of Part II ANSI B56.1-1993, as required by OSHA Section 1910.178(a)(2) and also comply with Part II ANSI B56.1-1993. For further information on this dimension, please contact your local Hyster dealer.
# MAST DIMENSIONS

## H170-190FT MAST DIMENSIONS

<table>
<thead>
<tr>
<th>Maximum Fork Height (TOF)</th>
<th>Overall Lowered Ht. w/ Load Backrest</th>
<th>Overall Lowered Ht. w/o Load Backrest</th>
<th>Overall Extended Height w/ Load Backrest</th>
<th>Overall Extended Height w/o Load Backrest</th>
<th>Free-Lift (TOF) H170FT with NL</th>
<th>Free-Lift (TOF) H175FTS with NL</th>
<th>Free-Lift (TOF) H190FTS with NL</th>
<th>Approximate Total Wt. of Standard Equipped Truck w/ Load Backrest</th>
<th>Approximate Total Wt. of Standard Equipped Truck w/o Load Backrest</th>
</tr>
</thead>
<tbody>
<tr>
<td>140 (3565)</td>
<td>117 (2962)</td>
<td>117 (2962)</td>
<td>187 (4725)</td>
<td>187 (4725)</td>
<td>4 (105)</td>
<td>4 (105)</td>
<td>24361 (11050)</td>
<td>26592 (12062)</td>
<td>25395 (11519)</td>
</tr>
<tr>
<td>179 (4565)</td>
<td>137 (3462)</td>
<td>137 (3462)</td>
<td>226 (5725)</td>
<td>226 (5725)</td>
<td>4 (105)</td>
<td>4 (105)</td>
<td>24591 (11155)</td>
<td>26822 (12167)</td>
<td>25395 (11519)</td>
</tr>
<tr>
<td>219 (5665)</td>
<td>155 (3962)</td>
<td>155 (3962)</td>
<td>266 (6725)</td>
<td>266 (6725)</td>
<td>4 (105)</td>
<td>4 (105)</td>
<td>24822 (11259)</td>
<td>27053 (12271)</td>
<td>25856 (11728)</td>
</tr>
<tr>
<td>181 (4615)</td>
<td>167 (4262)</td>
<td>167 (4262)</td>
<td>240 (6077)</td>
<td>240 (6077)</td>
<td>56 (1440)</td>
<td>56 (1440)</td>
<td>25216 (11438)</td>
<td>27447 (12450)</td>
<td>26250 (11907)</td>
</tr>
<tr>
<td>234 (5965)</td>
<td>185 (4727)</td>
<td>185 (4727)</td>
<td>288 (7302)</td>
<td>288 (7302)</td>
<td>74 (1890)</td>
<td>74 (1890)</td>
<td>25528 (11579)</td>
<td>27759 (12591)</td>
<td>26561 (12048)</td>
</tr>
</tbody>
</table>

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† Lift heights over 219” (5563 mm) maximum fork height are considered highlifts and require reduced capacity and restricted back tilt.

Total approximate weights listed include mast, standard carriage, load backrest extension.

RL = Rated Load  
NL = No Load
### STANDARD EQUIPMENT

- Complete truck equipped with:
  - Kubota 3.8L EPA Certified Tier 4 interim engine
  - DuraMatch™ transmission
    - Electronic inching
    - Electronic shift control
    - Auto deceleration system
    - Controlled power reversal
    - Controlled roll back on ramps
  - 3 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 219" (5,565 mm)
  - 80" (2,030 mm) wide hook-type carriage with 48" (1,219) tall load backrest extension
  - 47.2" (1,200 mm) long hook type standard taper pallet forks
  - 5 degrees forward and 9 degrees backward mast tilt
  - 3-function hydraulic control valve
  - Integrated dashboard display includes:
    - LCD Display
    - Fuel level
    - 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
  - Full-suspension vinyl seat
  - Electronic horn
  - Adjustable steer column
  - Rubber floor mat
  - Air intake with precleaner
  - Integral tie downs
  - Operator restraint system
  - Combi-cooler radiator
  - Single pedal inch brake
  - TouchPoint™ hydraulic mini-levers with fully adjustable armrest
  - Side view mirrors
  - Operator presence system
  - 100" (2,531 mm) Tall overhead guard
  - 12 months / 2,000 hours manufacturer’s warranty
  - 24 months / 4,000 hours manufacturer’s powertrain warranty
  - Operator’s manual
  - UL Classification D

### OPTIONS

- Powertrain protection system
- Premium monitoring
- Accumulator
- Keyless start (with auxiliary key switch)
- Return to set tilt
- Rear drive handle with horn button
- Full suspension seat - cloth
- Swivel full-suspension seat - vinyl or cloth
- Impact monitor with immediate or delayed shutdown
- Load weight display
- Operator pre-shift checklist
- Dual-inch brake pedals
- Operator password protection
- Audible Reverse activated 82-102 dB(A) self-adjusting alarm
- Visible amber LED strobe light - continuously activated, overhead guard mounted
- Various light packages:
  - Two front and one rear halogen work lights
  - Two front and one rear LED work lights
  - Two front, one rear halogen work light and two LED brake/tail/back-up lights
- Cab includes the following:
  - Front and rear
  - Wiper
  - Full light package
  - Integral heater
  - Defogger
  - Removable doors
  - Operator dome light
  - Fan
- Parts publications - printed or CD, serial number specific
- UL Classification D, DS
- Operator cabin
Engine is compatible with Biodiesel to a rating of B5 (5% bio, 95% diesel)

3.3L Turbocharged & Intercooled engine produces

Equipped with an Exhaust Gas Recirculation (EGR) system to reduce emissions and a Diesel Particulate Filter (DPF) to capture and oxidize particulate matter (soot)

Turbocharger with wastegate

Oil-cooled wet disc brakes provide extremely long service life and are protected from dirt and moisture

Hydraulically boosted single circuit master cylinder with sealed fluid reservoir and magnetic fluid level sensor

Ratchet-type, hand-activated parking brake lever allows controlled application

DuraMatch™: Electronic shift control, neutral start switch, 3 speeds forward/2 speeds reverse; Auto Deceleration System, electronic inching, controlled power reversal, controlled roll back on ramps

COOLING SYSTEM

All models feature square-wave anti-clog Combi-cooler

All radiators utilize cross-flow aluminum cores, pusher type fans and permanently lubricated water pumps

“Knife-edge” type fan shrouds that direct air flow through the counterweight air passages

15 psi operating system pressure

Combi-cooler contains an externally mounted transmission oil cooler to aid in heat dissipation

HYDRAULIC SYSTEM

Manual Hydraulic Control Valve & Electro-Hydraulic Controls Available

Hydraulic lift system relief operates at 3400 psi (23.4 Mpa)

Tilt and auxiliary systems have 2,200 psi (15.5 Mpa) relief pressure in all valve variations

Hydraulic system is protected by a replaceable 10-micron element in-tank filter assembly

Hydraulic breather filter includes an anti-splash baffle and is rated at three micron

0-Ring face seal fittings with captive O-Ring grooves are used on all high pressure connections

Emergency lowering valve allows load to be lowered in the event of battery power loss

100 Mesh suction line strainer

STANDARD FEATURES AND OPTIONS

Masts are available in 2-stage limited free lift (LFL) and 2- or 3-stage full free-lift (FFL) VISTA® masts.

Carriages are hook-type, ITA Class IV mounting. Overall width without load backrest extension (LBE) is 78” (1,981 mm); with LBE is 78.5” (1,991 mm). Maximum outside-to-outside edge fork spacing is 73.9” (1,876 mm).

H170-190FT lift trucks feature:

73.9” (1,876 mm).

110HP

CRUSADE® mast to 171.5” (4,356 mm) maximum fork height

86” (2,184 mm) hook-type carriage with 47.2” (1,200 mm) long forks

48” Tall load backrest extension (LBE)

TRANSMISSION

• MONOTROL

• Optimal entry step height on both sides of the truck

• Automotive style foot controls with single braking/ inching pedal (dual pedals are optional)

• Integrated dashboard display is backlit, allowing easy visibility under all lighting conditions

• Grid-style overhead guard offers superb visibility at extended heights

• 3-Stage full free-lift (FFL) VISTA® mast to 171.5” (4,356 mm) maximum fork height

• 86” (2,184 mm) hook-type carriage with 47.2” (1,200 mm) long forks

• 48” Tall load backrest extension (LBE)

STEER AXLE / STEER SYSTEM

Equal-area, double-ended, hydrostatic steering cylinder is mounted in cast ductile iron axle frame

Elastomeric axle mounts absorb shock and allow lubrication free articulation

Axle assembly utilizes synthetic boots and seals to retain lubricants and shield components against destructive grit and reduce lube points

Wheel hubs rotate on large, tapered roller bearings

Top spindle bearings lubricated through easy access lube fittings

Hydrostatic steer system provides smooth, precise steering with only 4 turns lock-to-lock

STANDARD FEATURES AND OPTIONS

Capacities

Model H170FT: 17,000 lbs. at 24” (8,000 kg at 600 mm) load center

Model H175FT: 17,500 lbs. at 36” (8,000 kg at 900 mm) load center

Model H178FT: 19,000 lbs. at 24” (9,000 kg at 600 mm) load center

Rated Capacities are for Trucks Equipped with:

• 5-Stage free lift (FFL) VISTA® mast to 171.5” (4,356 mm) maximum fork height

• 86” (2,184 mm) hook-type carriage with 47.2” (1,200 mm) long forks

• 48” Tall load backrest extension (LBE)

FORKS
H170-190FT lift trucks feature: 2.5” x 6” x 48” to 96” (60 x 150 x 2438 mm) long pallet forks.

Special attachments, equipment or accessories not listed above may be available through Applications Engineering for specific application requirements.
It’s not just about the lift trucks.
Any company worth its weight knows success has just as much to do with the support before and after the sale as the sale itself. We pride ourselves on being more than just a lift truck manufacturer. Through our Dealer Network, we’re also fleet managers, parts suppliers, capital procurement specialists and trainers. You’ll find that when it comes to service, we do it all.

Hyster Fleet Services
As much as we’d like for your entire fleet to be Hyster, we know that’s not always the case. But just because you also operate other brands doesn’t mean we can’t manage your lift truck maintenance and replacement plan. We can analyze your current fleet or provide summary of your fleet history and a cost-effective proposal for replacement and scheduled maintenance of all your vehicles. Once this initial review is complete, we’ll continue to monitor your fleet to ensure it’s performing optimally.

UNISOURCE™ Parts Program
In addition to providing fleet management for a variety of brands, we can also serve as your source of parts for all your lift trucks. With the Hyster UNISOURCE parts and service program, we offer approximately 2 million part number crosses for most brands of materials handling and other in-plant mobile equipment. UNISOURCE also has remanufactured parts that provide the same quality and guarantee but at a lower price. And we can deliver parts to you in less than 24 hours, any day of the week. How’s that for convenience?

Rental Products
At Hyster Company, we’re always looking for ways to help you keep your productivity up. Through the Hyster Dealer Network, you can access rental equipment for the times when leasing or buying isn’t a practical option. Your local Hyster Dealer has access to over 14,000 units that are available for short- or long-term rental. Whether you need one truck to substitute for a vehicle that’s being serviced or several lift trucks to accommodate seasonal changes in your business, we’ll help you maintain output in a cost-effective manner.

Hyster Capital
We know that financing new additions to your fleet can sometimes be challenging. That’s why your Hyster Dealer has a long list of ways for you to fund your purchase. We are skilled in arranging 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 better service and competitive rates, ensuring you receive the value you deserve.

Special Products
Engineering Department (SPED)
In a perfect world, every application could be handled with a standard lift truck. However, in the real world, different materials require different handling. That’s why Hyster Company’s Special Products Engineering Department works with you to customize your lift trucks. From strobe lights to specially made forks, SPED can provide you with the tools you require to get the job done right.

* May be subject to an additional charge. Contact your local authorized Hyster Dealer for more information.

Automated Warehouse Solutions
As society’s technological capabilities advance, we strive to find practical applications. One of our most recent innovations in that pursuit is our development of automated warehouse solutions. We can help you determine if your operation would benefit from this type of system, which improves inventory accuracy, warehouse productivity and safety records, as it reduces maintenance and overtime.

Operator and Service Training
Hyster Company recognizes that proper training is a key element of a profitable company. That’s why your local authorized Hyster Dealer offers a training program for your lift truck operators as well as those who maintain your vehicles. Proper education in running and servicing lift trucks cuts down on the number of repairs and risk of injuries due to accidents while increasing productivity. All of our trainers are professionals with experience in materials handling.

Visit us online at www.hyster.com/americas or call us at 1-800-HYSTER-1.