



**STRONG PARTNERS.  
TOUGH TRUCKS.™**

# H170-190FT SERIES

**SIT-DOWN, COUNTERBALANCED, IC, PNEUMATIC TIRE**

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## H170-190FT SERIES

The H170-190FT Fortis® is more than a 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 owning an asset 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, ideally suited for a wide variety of applications such as lumber, steel, concrete, and car salvage. These trucks offer two Kubota diesel engines to optimize the powertrain to the needs of the application.



## > 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%.

### TOUGH POWERTRAIN

- Pacesetter VSM continuously monitors fluid levels and powertrain, reducing daily service checks and preventing major repairs.
- 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.

### 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.

### HEAVY DUTY MAST

- Masts are available in 2-stage limited free lift (LFL) and 2- or 3-stage full free lift (FFL) VISTA™ masts.
- Nested-channel design and full-radius, angled load rollers provides increased capacity at height while affording shorter overall length.
- The heavy duty mast option provides a solution for users in extreme applications that require heavy attachment use or frequently move maximum loads.

### 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.
- An air-to-air intercooler enhances power and fuel efficiency.



## SERVICE AND MAINTENANCE

- Unmatched service access: Gull-wing hood door design offers superior service access to the engine compartment.
- Daily checks are easily accessed and performed.
- State-of-the-art onboard diagnostics reduce repair time and minimize expensive parts swapping.
- Kubota 3.8L DOC engine provides maintenance-free emissions—no need to add fluids or remove filters for cleaning.
- 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.

*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.*



## WORLD-CLASS EFFICIENCY

- Hyster® Variable Power Technology™, available on the Kubota 3.8L high output turbo diesel engine, provides adjustable performance modes that allow customers to boost productivity or fuel economy to fit their specific application requirements.
- 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 Final DOC Turbodiesel Engine features 500 hour service intervals and provides excellent performance with advanced combustion technology that enhances fuel economy.
- The Kubota 3.8L DOC engine features a diesel oxidating catalyst for maintenance free emissions.
- Extended transmission and hydraulic fluid change intervals.



## > ERGONOMICS

The Fortis® series features an ergonomically designed compartment that plays a big role to enhance overall productivity. Superior ergonomic features like ample leg room, 2 choices of hydraulic controls, an infinitely adjustable steer column, integrated dashboard display, 12-inch steering wheel with spinner knob, Auto Deceleration System, 4 choices of seats and optional rear drive handle and EZXchange bracket enable your operator to maximize productivity.

### FATIGUE-REDUCING OPERATOR COMPARTMENT

- 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.
- 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 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.
- 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.
- 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.



*TouchPoint E-hydraulic mini-lever controls*



*Optional cab shown*



*Ergonomically designed operator compartment*



# CUSTOMIZED PERFORMANCE <

The H170-190FT series is configured to provide the right lift truck for your application. Our truck packages with multiple powertrain combinations to choose from assure your cost of operations will be lowered. Each configuration offers improved efficiency, advanced dependability and simple serviceability.

- The high output engine, performance transmission, hydraulic controls and cooling system allows you to optimize productivity in your application.
- Both the Kubota 3.8L EPA Certified Tier 4 Final DOC Turbodiesel Engine and optional Kubota 3.8L EPA Certified Tier 4 Final High Output Turbodiesel Engine feature an electronically controlled, high-pressure common-rail fuel system that 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 competitor's lift trucks may fail.

Available on the Kubota 3.8L high output turbo diesel engine, **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 H170-190FT 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.

## WHICH ENGINE IS RIGHT FOR YOUR APPLICATION?


Engine Type	Fuel Type	Horsepower	Torque at rated RPM	EPA Emissions Compliant	Service levels	Maintenance-free emissions	Cast iron block and cylinder heads	Deep skirt engine block	Turbo charged	Air to air intercooler	Replaceable exhaust valve seat inserts	4-valves per cylinder	Diesel oxidation catalyst	Diesel particulate filter	Selective Catalytic Reduction (SCR) system	Maximum Productivity
Kubota 3.8L High Output (82kW)	Diesel	110 @ 2400 RPM	373 (275) @ 1600 RPM	•	500	•	•	•	•	•	•	•	•	•	•	•
Kubota 3.8L DOC (55kW)	Diesel	74 @ 2200 RPM	227 (309) @ 1400 RPM	•	500	•	•	•	•	•	•	•				





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