Hyster Company has always produced some of the best pneumatic trucks in the 19,000–36,000 pound range. Hyster is forging a new trail with a truck that will set the bar even higher. The H190-360HD₂ truck series takes the ‘tried and true’ features of its predecessor and makes them even better. Your customers depend more upon you than ever before. Your job has become more demanding and the H190-360HD₂ is up to the task. The Hyster® H190-360HD₂ Series is the family workhorse lift truck that won’t let you down.
Our all-season temperature controlled cab (optional) features a heater & defroster, circulation fan and an optional air-conditioner to keep you comfortable from the heat of the summer to the coolest of winter shifts.

Whether you like an open operator compartment or an enclosed cab, we have you covered on the H190-360HD lift truck series. The tinted tempered glass of the ComforCab II™ helps minimize the sun’s glare while driving or handling loads in either direction. And for those really hot, sunny days the optional air-conditioner and built-in ‘sunshades’ in the cab module help keep you cool. Best of all, the curved front and rear glass of the ComforCab II maximizes your line of sight.
Fatigue-Reducing Operator Compartment
The operator compartment and controls are ergonomically designed to help reduce operator fatigue and improve productivity. The operator compartment is large and uncluttered, allowing the operator ample room for auxiliary options. It features a spacious environment, an adjustable suspension seat with integrated armrest and low effort controls, adjustable steering wheel, and power-assisted steering and brakes. The cab’s structural design creates excellent all-around visibility.

ComforCab II
The optional enclosed ComforCab II features curved front and rear tempered glass panels for excellent visibility. The door handle is mounted low to allow the operator to open the door from ground level. Ten strategically placed air vents and an optional high-output air conditioning system, makes the operator’s workspace comfortable, promoting operator productivity.

Cooling System
The Quad-cooler radiator assembly consists of four separate aluminium cooler cores for engine coolant, engine charged air, hydraulic oil and transmission oil. Cooling cores can be removed individually for service. The hinged cover is gas-spring assisted to provide easy access for service and is louvered for maximum air flow.

Counterweight
The superior design of the downward sloping counterweight allows for excellent rearward visibility. Lights are recessed in the counterweight for maximum protection.

Hydrostatic Steer Axle
The Hyster designed, ‘sandwich’ type steer axle with transverse, double-acting hydraulic cylinder, tapered roller spindle bearings and non-adjustable tie rods provide maximum durability and superior steering control for easy maneuvering. Load sensing steering provides precise steering control at all times regardless of engine RPM.

Serviceability
The cab tilts to the right side for service access using the standard hand operated hydraulic pump or the optional electrically operated pump. All models have a common gull wing hood design. A gas spring assures ease of opening the hood and keeps it securely in place when open. Tilting the cab, coupled with the easy-lifting hoods, provides access to the entire powertrain for service or repair, but is not required for daily checks.

Electrical System
CANbus communications reduces wiring complexity while smart wire routing keeps wiring away from heat sources. Sealed electrical connectors help eliminate contamination caused by water, dirt and debris.
Mast
The mast features high strength hot-rolled steel channel sections for strength and durability. Generous channel overlap reduces deflection. Mast rollers are pre-lubed and sealed for long life. All mast hoses utilize O-Ring face seal fittings to reduce leaks.

Hydraulic Controls
Two levers offer control of the lift and tilt of the mast, while additional levers or switches are offered for control of other hydraulic functions. As an alternative, Hyster offers a joystick option for control of hydraulic functions.

Power on Demand Hydraulic System
With the load-sensing hydraulic system, the hydraulic fluid is only pumped when the system is required to do work. At low load conditions, drivers won’t need to rev the engine to receive fast hydraulic speeds. This system leads to reduced fuel consumption, lower hydraulic oil temperature, and extends the life of all hydraulic components.

Carriages
The H190-360HD2 series comes with a variety of carriage and front end options to accommodate a wide range of customer applications. The standard pin type carriage features excellent visibility and the strength to handle long forks or tough attachment applications. Other carriage options include the fork positioner, Apron style sideshift, Apron style sideshifting fork positioner, and the dual function sideshifting fork positioner.

Brakes
Two heavy duty brake systems are available for the H190-360HD2 series. The standard air brakes offer a proven, reliable system that is easy to service and simple to adjust. For more demanding and intensive applications, the optional wet disc brakes are available for all models.

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.

Frame
The unitized design and welded steel construction of the frame was developed for long term durability. Three frame configurations are offered to meet the various capacities.
Hyster engineers have moved the dash display to the right side, giving you the clearest view possible. Your upward vision is virtually free from obstruction, due to the unique overhead guard design. And you’ll get no distortion looking through the curved front and rear glass. That’s especially handy with the optional interior roller-type sunshade. Want the fresh air all year? The open driver compartment is available as the standard truck configuration.

The H190-360HD₂ series’ Power on Demand load sensing hydraulic system with lever controls (standard) or optional joystick, give you unrivaled load control and an ease of operation you can’t get anywhere else. By reducing lever efforts without a sacrifice of control, you will complete your work shift with less strain, dramatically increasing productivity throughout the day. All hydraulic controls are mounted in the fully adjustable right-hand armrest putting every function actuation within a fingertips reach.

The Power on Demand hydraulic system features a variable displacement hydraulic pump to deliver just the right amount of oil needed to do the job, especially at idle engine speeds. A high-performance pump option is also available providing industry leading lift speeds.

A premium ZF WG161 transmission is available providing increased travel speed and drawbar pull performance for added productivity in the toughest applications.

REWARD PRODUCTIVITY

Whether it’s the standard vinyl covered cushion seat, or optional deluxe cloth covered version with or without heated seating, the full-suspension seat is contoured to maximize your comfort. With an adjustable backrest angle separate from the seat, and armrests, your Hyster seat features a weight sensitive adjustable spring rate. The seat’s integral armrests/hip restraints provide an excellent arm or handhold to minimize torso strain when operating in a rearward position. All seats come fitted with an operator warning buzzer system that will sound if the parking brake is not applied.

The optional ComforCab II has a 3-speed fan and high capacity heater as standard, with 10 air outlet vents for all around comfort. A replaceable paper air filter element filters the air from the outside. The optional two-speed air conditioner will keep you cool when the temperature is rising. Or you can order the optional circulation fan for even more air. Keeping the ComforCab II a consistent temperature is easy, since doors create an air-tight seal when closed.
SUPERIOR OPERATOR COMFORT

Once again, Hyster reasserts industry leadership with the H190-360HD2 lift truck’s optional ComforCab II operator compartment. The HD2 series’ leading edge blend of ergonomics and technology helps keep you focused on the task at hand... materials handling.

The entire compartment is mounted on elastomeric rubber mounts isolating and minimizing the productivity robbing effects of road-borne shocks and vibrations. Its uncluttered, spacious floor is covered with a high-density rubber mat, decreasing sound inside the optional enclosed ComforCab II down to an amazingly low 76 dB(A) level. That’s slightly less than the average sound level of music playing in your living room.

The combination of a tilt and telescoping steering column and an adjustable full-suspension seat places your operator in the utmost comfort. In addition, the right-side armrest’s adjust-ability allows even the most demanding operator to place the truck’s controls within easy reach. Control is second to none since the low effort, load sensing power steering is standard equipment. The benefit of over 80 years of Hyster Company’s heritage shows through clearly.
At Hyster we strive to do our part in a “cleaner” environment while providing a durable product. That is why Hyster has paired up with Cummins to offer the next generation of engine. The H190-360HD2 trucks have a 6.7 Liter Cummins QSB industrial diesel engine with turbocharger and intercooler.

Two powertrain options are available to allow the customer to best match the truck to their application and requirements. The standard powertrain features the TE-10 3-speed autoshift transmission and time-proven air brakes. The optional premium powertrain includes the ZF WG161 3-speed autoshift transmission with oil cooled wet disc brakes for maximum durability.

The Quad-Cooler contains four separate cooling cores (engine, transmission, charge air cooler and hydraulic system). The cores are horizontally stacked and are individually replaceable. The integrated hydraulic cooler maintains normal system operating temperatures at ambient temperatures of 122°F.

A resistive electric grid preheats intake air to dramatically increase cold weather startability. No need to slow down with the shift on the fly 3-speed powershift transmission. The use of torque control allows for precise inching. Large durable multi-disc clutch packs and high flow transmission cooling help keep the temperature down. The fully electronic autoshift control system makes this a smooth truck to operate.
The Power on Demand variable displacement hydraulic system extends the life of the entire system through reduced oil temperatures by pumping oil only when it’s needed. When hydraulics are not in use, the additional engine power is available for acceleration, or increased drawbar pull. The available premium ZF WG161 transmission provides an extreme duty solution with an extremely long service life while providing higher travel speeds and additional drawbar pull over the standard TE-10.

Extended service intervals keep the truck out in the yard and away from the service shop. Hydraulic system fluid service life can extend to 6,000 hours with periodic sample testing, while a comprehensive filtration system traps particles down to 5 micron. Oil cooled wet disc brakes provide the most cost effective solution for high service life, even under the toughest work conditions with multi-shifts.

The Hyster hydrostatic steer axle is as tough as they come. It's maintenance free and that's not easy with the beating it takes. Its durable spindles are supported by pre-lubricated tapered roller bearings which resist shock and wear. Periodic adjustment is eliminated by its fixed length tie rods. Adjustable steer axle stops can be adjusted to extend tire wear, when extreme maneuverability isn’t required, to dramatically improve steer tire life.

The Power on Demand variable displacement hydraulic system extends the life of the entire system through reduced oil temperatures by pumping oil only when required. The O-Ring Face Seal fittings used throughout this series help ensure that hydraulic connections are sealed to prevent leaks. The air intakes on the HD2 truck series will reduce the need for filter replacements.

When it comes to slowing down, you have your choice of air brakes with air system drier or optional wet disc brakes. Both styles of brake systems feature a full floating axle assembly design, allowing its housing, not the shafts, to carry the weight of the load, for greater durability. Either system gives you positive consistent stopping and superb inching capabilities. All hydraulic and air systems have been constructed to minimize the number and length of lines and connections to avoid potential leak sources.
Adjust the standard 3-way adjustable contoured full suspension seat where you want it. Then refine your position further with the multi-position tilt and telescoping steer column adjustments. The H190-360HD₂ truck’s hydraulically assisted steering minimizes effort required to get into and out of tight spaces. The HD₂ series’ hydraulic levers are always at your fingertips. Performance data is ready at-a-glance. And the MONOTROL® pedal is at the ready, to provide you single touch foot-pedal control of travel speed and direction. This unique Hyster feature frees your hands to do other tasks, making maneuvering easier and saving you time. And if you prefer, an optional direction control lever with forward, neutral and reverse is available with range control.

Inching and braking are not the same. On the H190-360HD₂ lift truck series you have two pedals, one located on either side of the steering column. The left-hand side pedal provides you braking and inching capabilities by partially disengaging transmission clutch packs. Fully depressing this pedal engages the brakes. The brake pedal is on the right-hand side of the column.

**PERFORMANCE AT-A-GLANCE**

The H190-360HD₂ lift truck series’ console, located on the right-side of the operator, houses the instrumentation and electronics package. Soft-touch controls give you the confidence to complete a full day’s worth of work, and then some. We also moved the state-of-the-art multifunction display panel to the right-side console. With 16 warning lights, 5 gauges and a dual function LCD, your operator has a clear, true reading of how your machine is performing.
Exceptional All-around Visibility

You have no dash or cowl to obscure your line of sight when operating an H190-360HD\textsuperscript{2} series truck. Hyster Company’s exclusive mast optimizes your field of vision for better load handling. Your vision through the overhead guard is exceptional. Air intake and exhaust pipes are located in parallel to minimize rearward visibility obstructions. The rounded form of the hood, fenders and counterweight design allow you to see objects sooner, dramatically increasing your rearward visibility.

Large wide-angle side view mirrors mounted in the upper front left and right corners of the ComforCab II provide you a clear look behind.
Imagine having ready access to the engine and vital functions of the truck without straining or tying yourself in knots. The answer is the side tilting ComforCab II of the Hyster® H190-360HD®. The cab, mounted on 4 rubber isolators pivots over to the right-side of the truck, giving you complete access to all the major components.

Hyster lift trucks make their name with what they do for your operations. But it doesn’t hurt to have a little styling along the way. The rounded form of the operator compartment, hood, fenders and counterweight are testimony of the H190-360HD® truck series’ combination of form and functionality. The rear fenders include unique rear light clusters that improve component durability. The low-profile counterweight offers improved visibility, while the hood design provides improved service access. The rear hood is hinged for ease of radiator access and maintenance.
All engine, transmission and other service check points are conveniently situated for quick maintenance. The daily service checks can be completed in less than 10 minutes and do not require the cab to be raised. The hardest decision you will have to make as an owner of an H190-360HD₂ series truck is electric or manual tilt.

The H190-360HD₂ series’ standard tilting operator compartment feature is manually actuated or you can choose the optional electric (pushbutton) version.

Pulling the ‘notched holding device’ lever allows it to slide free as the hydraulic cylinder extends, raising the compartment. Once open, you have complete access to the hydraulic system, transmission and engine.
STANDARD EQUIPMENT

• Cummins QSB 6.7 Turbo Diesel Engine
  – Tier 3 Emissions Compliant
  – 155 Peak Horsepower
• Spicer Off-Highway TE-10 3-Speed Auto Shifting Transmission
• Air Brakes with Air System Dryer
• Pin Type Carriage with Mechanical Fork Locks
• Planetary Drive Axle
• Pneumatic Premium Super-Lug Tires
• Power-on-Demand Load-Sensing Hydraulic System featuring:
  – Variable Displacement Pump Technology
  – Standard Hydraulic Performance
• 3 Function Hydraulic Control Valve with 3 Levers
• Mast Tilt: 15° Forward / 12° Back
• UL Classification D
• Open Operator Compartment with Integral Overhead Guard featuring:
  – Seat-Side Hydraulic Control
  – MONOTROL® Pedal
  – Multifunction Display Panel
  – Interior Wide Angle Side-view Mirrors
  – Telescoping & Tilting Steering Column
  – Floor Mat
  – 24-12V DC Converter
  – Isolated Mounting for Low Noise and Vibration
  – Handrails for Operator Entry and Exit
  – Steering Wheel without Spinner Knob
• Electronic Horn (105 dBA)
• Mechanical, Full Suspension Vinyl Seat with Integrated
  – Adjustable Armrest and Seat Belt
• Operator Restraint System
• Operator Presence System
• Integral Air Intake PreCleaner
• Overhead Exhaust
• 24V Electrical System
• 70 Amp Alternator
• Manual Tilt Operator Compartment for Service Access
• 2 LED Stop / Tail / Back-up Lights
• Non-Locking Fuel Cap
• Literature Packet - English
  – Operator’s Manual
  – Service Manual
  – Parts Manual
• Warranty
  – 12 Months / 2,000 Hours Manufacturer’s Warranty
  – 36 Months / 5,000 Hours Manufacturer’s Transmission Warranty

OPTIONAL EQUIPMENT

• ZF Industries WG161 3-Speed Power Shift Transmission
• ZF Industries WG161 3-Speed Power Shift with HD Drive Axle Wheel Ends
• Wet Disc Brakes
• Power-on-Demand Load-Sensing Hydraulic System featuring:
  – Variable Displacement Pump Technology
  – High Performance Hydraulic System
• Hydraulic Control and Valve Group
  – Hydraulic Control 4-5-6 function lever
  – Hydraulic Control 6 function joystick
• Masts/Tilt
  2 STAGE Vista Mast:
  – 15° Forward / 12° Back
  – 20.5° Forward / 7° Back
  – 5° Forward / 12° Back
  – 5° Forward / 6° Back
  3 STAGE Vista Mast:
  – 15° Forward / 10° Back
  – 5° Forward / 6° Back
• Carriages
  – Pin Type Carriage with Mechanical Fork Locks (w/o fork positioner)
  – Pin Type Fork Positioner - Simultaneous Fork Control
  – Pin Type Fork Positioner - Individual Fork Control
  – Pin Type Sideshift
  – Pin Type Dual Function Sideshift Fork Positioner
  – Pin Type Apron-Style Sideshift Fork Positioner - Simultaneous Fork Control
  – Pin Type Apron-Style Sideshift Fork Positioner - Individual Fork Control
• Tires
  – Pneumatic-Shaped Soft-Ride Solids
  – Michelin XZM Radial
• Enclosed Cabin with or without Air Conditioning includes:
  – Seat-Side Hydraulic Control Levers
  – Multifunction Display Panel
  – Interior Wide Angle Side-view Mirrors
  – Telescoping & Tilting Steering Column
  – Floor Mat
  – 24-12V DC Converter
  – Front, Top & Rear Wipers
  – Heater
  – Re-circulation Fan
• Seats
  – Mechanical, Full Suspension Cloth Seat
  – Air Ride, Full Suspension Vinyl or Cloth Seat with High Backrest
  – Deluxe Air Ride Full Suspension Cloth Seat
  – Deluxe Air Ride Full Suspension Heated Cloth Seat
• Engine Air Intake
  – Exhaust Aspirated PreCleaner (includes secondary element)
  – Sy-Klone Spinner Type Heavy Duty Air Intake Pre-Cleaner
• Powered Tilt Operator Compartment
• Various Light Kits
• Hydraulic Accumulator
• Lifting Eyes
• Engine Block Heater-110V
• Automatic Engine Shutdown
• Load Dependent Traction Speed Limiter
• Traction Speed Limiter
• Steer Wheel Lug Protection Rings
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 a 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. Plus, partnering with today’s best-known suppliers to the lift truck industry, we stand behind our replacement parts with one of the strongest warranties in the industry.

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 shorter 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.

Innovations
Hyster Company’s heritage of continuous product refinement is our commitment to you. We will continue to create materials handling equipment that will increase your operation’s productivity, putting more to your bottom line. As a result, we’ve developed innovations like hydrostatic steering, return-to-center steering, electronic fuel injection, the MONOTROL® directional control pedal, VISTA® masts and the ULTIMA II™ multi-function control handle. These are features you’ll only find with Hyster lift trucks.

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.

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