



High Capacity
Lift Truck



GP-DC/EC Series

19,000–36,000 lbs.

GP190-280DC, GP300-360EC Series

As a leader in materials handling, Yale offers so much more than the most complete line of lift trucks. Yale has invested heavily in people, processes and capital equipment to provide the cornerstones of quality and dependability... innovative design, comprehensive testing, high quality, advanced components and superior manufacturing.

Our Tier 4 Final GP190-280DC and GP300-360EC series feature Cummins QSB 4.5L and Cummins QSB 6.7L engines respectively. This series of trucks is designed with the latest innovations in engine technology, implementing cooled Exhaust Gas Recirculation (EGR) and after-treatment technology using a Diesel Oxidation Catalyst (DOC), a Selective Catalytic Reduction (SCR) system requiring the use of urea, and a dosing unit for precise urea injection.

Nine models are available in these series for use in applications such as concrete, lumber, steel manufacturing, produce and general cargo.

Also available with the Tier 4 final offering are two compact, heavy duty lift trucks with 30,000 lbs. and 33,000 lbs. lifting capacity, featuring a short 114" wheelbase at a 24" load center, the GP300ECS and the GP330ECS trucks respectively. Suited for applications where compactness and high maneuverability are vital, these models round out the Yale offering of our 24" load center trucks.



THE GP-DC/EC Series

Highlights



○ Ergonomics

- Operator comfort
- Broad, slip resistant running boards
- Good visibility
- Low noise

○ Productivity

- Full rated capacities
- Automatic throttle up
- Compact maneuverability
- Yale Vision compatible

○ Low cost of operation

- Integrated systems design
- On-demand hydraulics
- On-demand cooling
- Empty seat engine shutdown
- Traction speed limiter

○ Dependability

- Sturdy mast and carriage design
- Greaseable load rollers
- Cooling package

○ Serviceability

- Longer service intervals
- On-board diagnostics
- Ease of serviceability
- Guaranteed parts availability program

Built to be operator friendly

The Yale® ErgoCab is designed with the productive operator in mind. Operator controls are conveniently placed within the spacious cab for increased comfort and productivity. Mast and attachment control functions are integrated into the armrest for smooth, controlled actuation.

○ Ease of ingress/egress

Low step heights allow easy entry and exit from the truck. Broad, slip-resistant running boards are designed for good traction even under wet and slick conditions.

○ Visibility

Fork tips are easily visible, aided by a low profile carriage and mast sections designed to provide an unobstructed view of fork tips both on ground and at trailer height. Rear, side and corner visibility from the Ergo Cab is greater due to curved tempered glass windshields with no corner posts.

Canted hoses are arranged along the line of sight so the operator sees only one hose and has good visibility of the load at all times.

○ Low noise

The powertrain is mounted on vibration dampeners to reduce noise and vibration, helping to minimize operator fatigue throughout the shift. Minimal noise in the operator's ear (73 dB(A) BITA) enhances operator alertness and boosts productivity.





Mini-lever electro-hydraulic controls with On-demand hydraulics. Joystick controls also available as an option



Broad running boards offer low step height and slip-resistant traction



Foot Directional Control (FDC) pedals are optional



Infinitely adjustable steer column

Ultimate productivity

The GP190-360DC/EC series of trucks is available in several configurations to meet and exceed the customer's expectations in various material handling industries. All models can be configured with front end attachments that provide maximum performance and productivity for custom applications.

Rated capacities

Yale® heavy duty lift trucks offer full rated capacities at required load centers. These trucks are engineered to offer minimal derate for various carriage options.

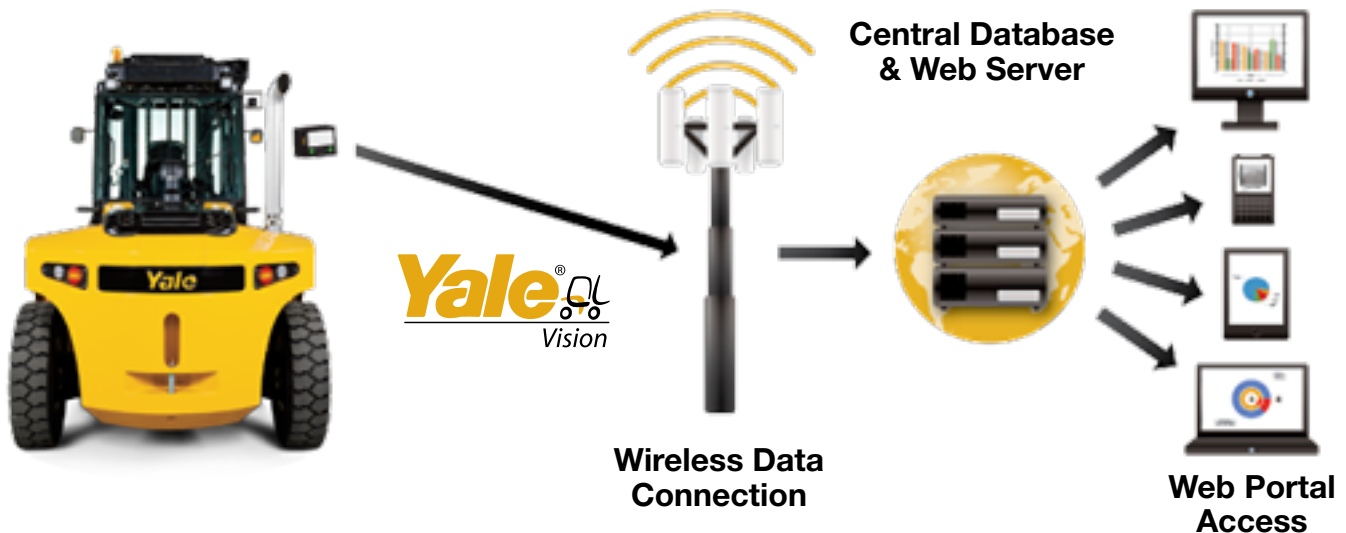
- Full rated capacity up to 28,000 lbs. with a pin type carriage on GP190-280DC trucks.
- Full rated capacity up to 36,000 lbs. with a pin type carriage on GP300-360EC trucks.
- Limited derate for apron sideshift carriages for all models offered.
- Minimal derate (1000 lbs.) for DFSSFP carriages

Automatic throttle-up

Automatic throttle-up provides automatic response to lift inputs from the operator when the lift lever is activated. A single-touch lever or joy-stick controlled rev-up keeps the engine in the most efficient operating range to deliver good fuel economy. Given the improved operator ergonomics, this feature enhances productivity while reducing operator fatigue. The automatic throttle-up feature applies only when the truck is in neutral.

Wireless asset management

Take your fleet operation to the next level with wireless asset management from Yale. Yale Vision provides a scalable solution for fleets. From monitoring truck utilization to limited operator access, Yale Vision allows you to track your fleet at your fingertips.



○ Lift, lower and travel speeds

Yale® GP190-280DC trucks deliver high productivity with 4-mode average speeds of 90 ft/min (0.46 m/s) at rated capacity.

Yale® GP190-280DC lift, lowering and travel speeds.

Travel Speeds	19 mph (30 km/h) with or without load
Lifting Speeds	79 ft/min (0.40 m/s) with load
	89 ft/min (0.45 m/s) without load
Lowering Speeds	98 ft/min (0.50 m/s) with load
	94 ft/min (0.48 m/s) without load

Yale® GP300-360EC trucks deliver high productivity with 4-mode average speeds of 86 ft/min (0.44 m/s) at rated capacity.

Yale® GP300-360EC lift, lowering and travel speeds.

Travel Speeds	16 mph (26 km/h) with or without load
Lifting Speeds	71 ft/min (0.36 m/s) with load
	81 ft/min (0.41 m/s) without load
Lowering Speeds	98 ft/min (0.50 m/s) with load
	94 ft/min (0.48 m/s) without load

○ Short wheelbase option

When a more compact truck is needed with the same capabilities, the short 114" wheelbase model is an excellent option. 30,000 and 33,000 lbs capacity models are available with an outside turning radius (OTR) suitable for the most compact operating conditions where space is limited and the maneuverability of trucks is paramount.

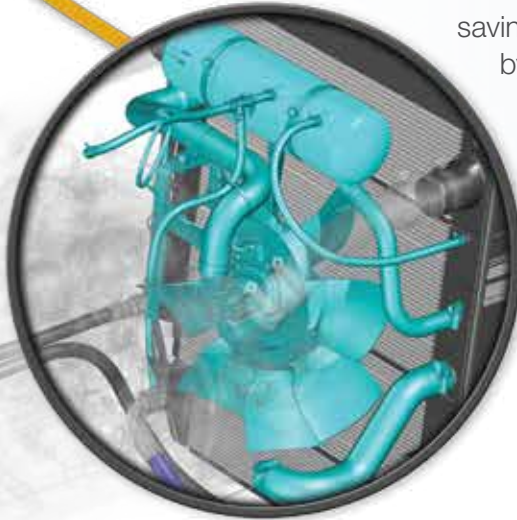
The short wheelbase model trucks are available via SPED* with all the features of the standard wheelbase models including masts, carriages and fork options.

* Contact Yale application engineering for details.



Low cost of operation

The purchase price of a lift truck is only a small part of its overall cost. Yale understands that your lift truck's total cost of ownership is the largest portion of dollars spent on your operations including such elements as periodic maintenance, unscheduled repairs, fuel and tires. Yale has collaborated with our suppliers to provide significant cost savings, world-class serviceability and unparalleled dependability by delivering trucks with substantial operating cost savings over the competition.



On-demand cooling reduces fuel consumed



Integrated powertrain and after-treatment design

□ On-demand cooling

This feature provides cooling on-demand to match the required cooling expectations. A proportional viscous drive cooling fan draws power only when cooling is required. This is unlike direct drive fans which draw high levels of power at all times. This feature reduces accessory loads on the powertrain, consumes less fuel and lowers noise levels.

□ On-demand hydraulics

This optional feature is designed to deliver flow only when required. A variable displacement pump, capable of more oil displacement even at low pump speeds, means the engine runs at lower speeds thereby extending the life of components while operating quieter. The system consumes up to 10% less fuel than a typical fixed displacement hydraulic system while generating less heat*. The life of hydraulic components including filters, hoses and seals is extended with less component wear.

□ Integrated systems design

The well-integrated powertrain features a Cummins 6.7L QSB engine paired with a ZF WG 161 transmission. This powertrain solution is optimized to provide maximum performance and outstanding fuel economy.

The Tier 4 Final after-treatment package offers cooled Exhaust Gas Recirculation (EGR), a Selective Catalytic Reduction system (SCR) for NOx reduction, a Diesel Oxidation Catalyst (DOC) for Particulate Matter (PM) removal, and a Diesel Exhaust Fluid (DEF) dosing module.

Innovative ECO Modes control maximum engine RPM and throttle response to provide the required balance of performance and fuel savings:

- Hi-P provides maximum performance and good fuel economy.
- e-Lo provides minimum fuel consumption without losing productivity.

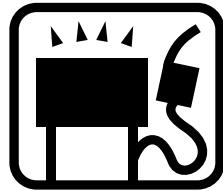
** Results will vary based on application, physical environment, fuel quality, etc.*

Fuel Economy Estimates

GP190-360DC/EC Series

Fixed Displacement
Hydraulic System

9,000
GAL/YR



Power On-Demand
Hydraulic System

8,100
GAL/YR

Estimated Annual Fuel Savings

SAVE \$2,250 per year*

Save 10% in fuel so you save
 $0.1 * 9000 \text{ gal/yr} * \$2.50/\text{gal} = \$2,250/\text{year}.$

Typical 3000 hrs/yr with on-demand hydraulic system and \$2.50/gal fuel price

This series offers up to **25% lower fuel consumption** than other leading competitive products with **10% saved** due to **On-Demand hydraulics**.

Based on results of validation testing conducted May 2015.

○ Empty seat engine shutdown

This cost-reducing feature shuts down the truck when the operator is out of the seat for extended periods of time, thereby limiting idle hours on the truck. Empty seat engine shutdown is programmable to activate within a 3–15 minute window after an operator leaves the seat. Factory preset to 15 minutes, the setting is conveniently adjustable by the customer with minimal tools.

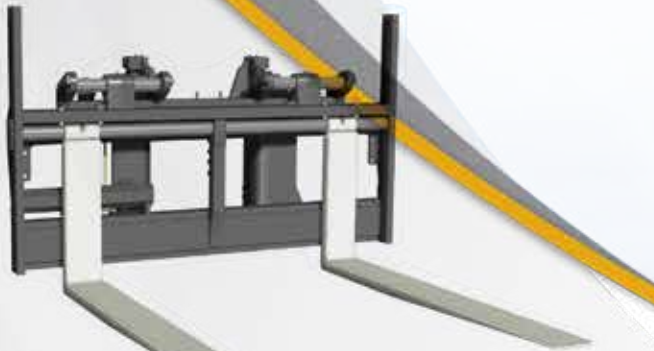
○ Traction speed limiter

An optional traction speed limiter reduces speeds and helps drivers to operate the truck in an optimal manner with regard to application site limitations. While an unconditional traction speed limiter sets the maximum speed*, the loaded traction speed limiter restricts speeds to a set point when a specified load weight is sensed on the forks. Settings are factory pre-set to 8mph and activated at 10% rated load, and are adjustable by your Yale® dealer.

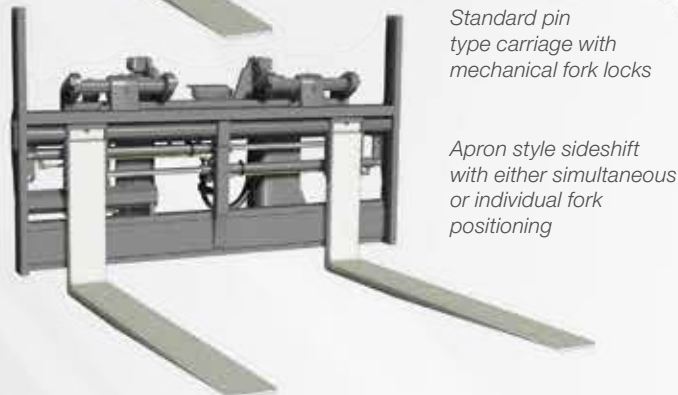
* Less speed means lower fuel consumption

Dependability

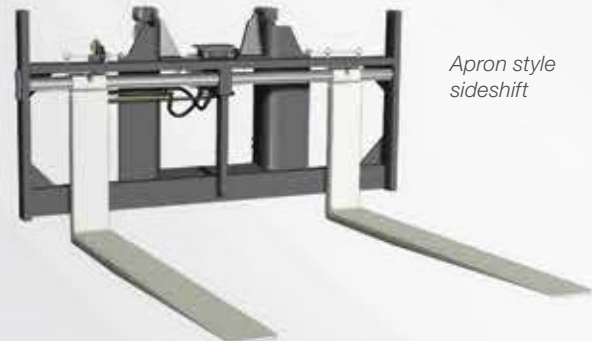
Yale® lift trucks are designed and manufactured to be among the most dependable trucks in the industry today. Our rugged powertrain offers durability with computer-controlled engine and transmissions, robust clutch packs and stronger gears and shafts.



Standard pin type carriage with mechanical fork locks



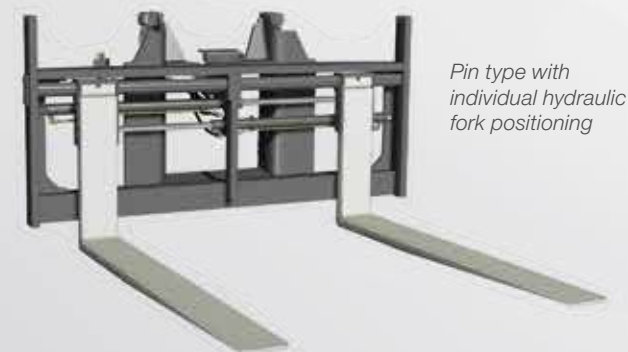
Apron style sideshift with either simultaneous or individual fork positioning



Apron style sideshift



Dual function sideshift fork positioning (DFSSFP)



Pin type with individual hydraulic fork positioning



□ **Sturdy mast and carriage design**

Several 2-stage mast options are available for the GP190-360DC/EC series, providing masts designed for both pin type and apron style carriage mounting options with individual and simultaneous fork positioning.*

Sturdy mast design is common throughout the capacity range, realizing less mast deflection than comparable products with overhead tilt.

Carriages are designed to have minimum capacity derate on sideshifting carriages. This ensures that the truck is able to provide full rated capacity under all operating conditions.

* Less carriage options are available with provision for base carriages enabling 3rd party supplier attachments

○ Greaseable load rollers

Greaseable load roller bearing and stub shafts are standard on all Yale® GP190-360DC/EC series trucks. The greaseable design allows the bearings to be lubricated, removing wear particles from the roller body and helping to reduce roller bearing failures. The double row cylindrical bearing profile provides enhanced load distribution, resulting in longer bearing life.

New bearings on the GP190-280DC offer a 46% increase in dynamic load capacity, and a 123% increase in static load capacity. New bearings on the GP300-360EC offer a 37% increase in dynamic load capacity, and a 133% increase in static load capacity. A hole on the mast allows easy access to grease the inner mast channel load roller bearings.



○ Drive axle

Yale and AxleTech have teamed up to provide a heavy duty drive axle with wet disc brakes to provide long life and outstanding performance in rugged operating conditions. The design also enables longer service intervals on fluid changes.

The new axle design provides a 36% improvement in spindle strength over the prior design and a 6% improvement in wheel end torque capacity in GP190-280DC models.

Similar design improvements from the prior model provide a 22% improvement in spindle strength and a 10% improvement in wheel end torque capacity in GP300-360EC models.

○ On-demand cooling

The standard load-sensing on-demand hydraulic system is engineered to deliver flow only when required. A variable displacement pump, capable of more oil displacement even at low pump speeds, means that the engine runs at lower speeds, extending the life of components while operating more quietly. The system uses less fuel than a fixed displacement hydraulic pump while producing less heat. Oil and filters last longer; hoses, seals and components also wear less and last longer.

The quad-cooler radiator features four separate cooler cores, packaged so that cool air (not preheated air) is channeled across the cores. Cool overhead air is drawn in for more efficient cooling than in stacked radiator configurations. Louvered cooling fins allow maximum air flow to the radiator.

Service made simple

Yale® lift trucks are designed to be extremely easy to service. Dual gull wing hoods provide quick access to key components, and daily checks do not require tilting the cab. For access to critical hydraulic components, a tilting cab—available in both manual and powered tilt configurations—lends access in seconds. A large access bay allows easy radiator cleaning and servicing. A hydraulic sight gauge enables at-a-glance fluid level checks.

○ On-board diagnostics

Centrally located fuses on the side console, along with CANbus on-board diagnostics in an automotive style layout, make for easy servicing and troubleshooting. Error codes on an LCD display provide quick and effective identification of service needs while enabling rapid implementation of remedies, helping to reduce downtime.

○ Longer service intervals

Major engine and drivetrain components are engineered to operate on 500-hour service intervals. Hydraulic fluid changes operate on a 3,000 hour service interval and can be adjusted up to 6,000 hour service intervals with proper fluid sampling. Extended hydraulic oil change intervals help to ensure that the truck remains in operation with longer mean times between oil changes or servicing.

Interior cabin filter change



□ Easy access to cooling system

The hinged hood pivots at wide angles to provide easy access to the cooling system. Ample space in front of the cooler cores enables effective maneuvering of service tools and equipment during service checks. The quad-cooler radiator with four separate cooler cores is easier to clean than if the cores were stacked.



Hinged hood gives access to radiator cooler

Supporting customers

With world-class parts and service

Our Guaranteed Availability Program (G.A.P.) ensures that parts that are normally required in the first 2 years of operation will be available from your Yale® parts dealer within 24 hours or they are free. With four Parts Distribution Centers strategically located around the world, we provide a full range of original equipment and aftermarket parts that maintain our customers' uptime.*

We also take that commitment into the field with Yale's ProTech® Certification training program, available to our dealers' technicians. The ProTech® technical training program provides both systems level as well as product specific education to ensure lift trucks are repaired right the first time.



**Consult your local dealer for G.A.P. program rules.*

The Yale experience

With Yale, you know you're getting more than just a truck. You're getting the complete Yale experience. It's the promise we make that goes beyond our products, and our commitment to support you with the best service in the industry.



Dealer Network - Yale customers have direct access to the best forklift products and services through our extensive, independent dealer network, featuring 340 worldwide dealer locations (225 in the Americas) with an average of more than 25 years of experience in materials handling.



Financial Services - Yale Financial Services specializes in financing your lift truck needs. Our programs make it easy to acquire the use of a lift truck or an entire fleet.



Fleet Management - 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.



Innovations - One size doesn't always fit all. Yale has engineered a variety of truck modifications to meet the ever-changing needs of its customers and their changing applications. In addition to standard and optional truck features, Yale offers an impressive list of special truck enhancements designed to increase your productivity.



Operator Training - Proper education in operating lift trucks minimizes the risk of injuries due to accidents while increasing productivity. Yale offers OSHA compliant materials that support the training of qualified operators.



Replacement Parts - Your authorized Yale® Lift Truck dealer offers genuine Yale® parts and quality parts for other makes (PREMIER™ Parts) as well as service programs - all designed to keep your trucks running efficiently and cost-effectively.



Rental - Long-term rental can provide flexibility for equipment and term tailored to your operation, fixed cost, maintenance and maximum uptime without major capital investment. Coupled with Yale® dealers' extensive short term rental fleets, businesses can meet peak production or seasonal requirements while keeping their fleets sized for their everyday needs.



□ Delivering total customer satisfaction

Yale's unique relationship with our customers is a product of our total customer satisfaction commitment combined with world-class manufacturing. Yale's goal is to anticipate the needs of every customer and address them with lift trucks that deliver the performance, value and dependability our customers demand.



For more information, or to find your nearest Yale® dealer, go to Yale.com.



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Truck performance may be affected by the condition of the vehicle, how it is equipped and the application. Consult your Yale® Industrial Truck Dealer if any of the information shown is critical to your application.

Specifications are subject to change without notice. This truck meets all applicable mandatory requirements of ANSI B56.1 Safety Standard for Powered Industrial Trucks at the time of manufacture.

Classified by Underwriters' Laboratories, Inc., as to fire and electric shock hazard only for Type E industrial trucks.

Manufactured in our own ISO 9001 and 14001 Registered Facilities

2275E 7/2016 All trucks shown with optional equipment.