IT62H

Integrated Toolcarrier



Engine		
Engine Model	Cat® C7 ACERT™	
Gross Power – SAE J1995	172 kW	230 hp
Net Power – ISO 9249	158 kW	211 hp
• EPA Tier 3, EU Stage III Compliant		

Buckets		
Bucket Capacities	3.25-4.25 m^3	4.25-5.5 yd^3

Weights		
Operating Weight	19 397 kg	42,770 lb
• For 3.25 m^3 (4.25 yd^3) material handling bucket with BOCE		

Operating Specifications		
Static Tipping Load, Full Turn – Bucket	11 730 kg	25,865 lb
• For 3.25 m^3 (4.25 yd^3) material handling bucket with BOCE		

IT62H Integrated Toolcarrier

H-Series Integrated Toolcarriers – Setting A New Standard

RELIABILITY

- Proven Components And Technology Equal Proven Reliability
- Diagnostic Systems Monitor Product Health To Ensure Reliability
- Unmatched Parts Availability And Dealer Support **pg. 4**

DURABILITY

- ACERT™ Technology Maintains Performance, Efficiency And Durability While Meeting Emissions Regulations
- Heavy Duty Components Stand Up To All Operating Conditions
- Strong, Solid Structures Built To Last **pg. 6**

PRODUCTIVITY

- Improved Cycle Times With Load-Sensing Hydraulic System
- Constant Net Horsepower Through The Operating Range
- Aggregate Autodig Automates The Loading Process **pg. 8**

SERVICEABILITY

- Service Centers For Convenient Maintenance
- Exceptional Access To Service Points
- Monitoring Systems And Dealer Support Reduce Unexpected Downtime **pg. 16**

Performance you can feel with the capability to work in the most demanding applications. Unmatched operator comfort and efficiency in a world class cab. Revolutionary electronics and hydraulics for low-effort operation. Increased productivity with lower owning and operating costs.



Courtesy of Machine.Market

VERSATILITY

- Special Machine Arrangements For Specialized Applications
- Quick Coupler And Large Variety Of Cat® Work Tools **pg. 10**

OPERATOR COMFORT

- Easy Entry And Exit
- Excellent Visibility
- Comfortable Environment With Controlled Vibration **pg. 12**

OWNING AND OPERATING COSTS

- Proven Fuel Efficiency
- Superior Maintenance
- Electronic Systems Monitor Product Health And Performance
- Complete Dealer Support **pg. 14**



Courtesy of Machine.Market

RELIABILITY

The Cat® IT62H – Tested And Proven – Ready To Work

- Proven components and technology provide proven reliability
- Electronic systems monitor vital machine components
- Excellent uptime from the best dealer support network in the industry
- Unmatched genuine Cat parts availability

PROVEN RELIABILITY. The IT62H features many of the components designed and proven in previous IT62 models – all contribute to the reliability of the IT62H:

- Frames
- Axles
- Planetary powershift transmission
- Free wheel stator torque converter
- Separated cooling system
- Cab



ACERT™ TECHNOLOGY. Since March 2003, ACERT Technology has been proving itself in on-highway trucks. More recently it has proven itself again in field tests of off-highway equipment.

This technology allows Cat engines to meet durability and reliability expectations without sacrificing fuel economy or performance.



CATERPILLAR DESIGNED COMPONENTS. Components used to build Cat Integrated Toolcarriers are designed and manufactured to Caterpillar quality standards to ensure maximum performance even in extreme operating conditions.

Engine electronic control modules and sensors are completely sealed against moisture and dust. Deutsche connectors and electrical wire braiding ensure that electrical connections resist corrosion and premature wear.

Hoses are engineered and manufactured for high resistance to abrasion, excellent flexibility and easy installation and replacement.

Caterpillar® couplings use o-ring face seals to provide positive sealing for durable leak-free connections.

Heavy duty components reduce the risk of leaks, corrosion and premature wear increasing uptime and helping to protect the environment.

MONITORING PROGRAMS. Monitoring product health is key to maintaining reliability of any equipment. Many programs are available on the IT62H – both as standard and optional features – to help you track machine condition.



Caterpillar Monitoring System. The IT62H is equipped with the Cat Monitoring System (CMS) that keeps watch over the health of your machine. CMS monitors critical engine system functions and will derate the engine to protect itself from damage if needed. Depending on which of the following six critical conditions arise, the CMS monitor or front panel will display warning lights and sound audible alarms.

- High coolant temperature
- High air inlet temperature
- Low engine oil pressure
- High fuel pressure
- Low fuel pressure
- Engine over-speed

Product Link. Product Link is a state-of-the-art satellite technology based product that provides two-way information flow between machine on-board systems and the Caterpillar network operations center. Multiple types of information can be collected and tracked – from machine location and service meter hours, to health and productivity information.

Courtesy of Machine.Market

EquipmentManager. With a subscription to EquipmentManager through the Cat Dealer Storefront the information collected through Product Link can be transmitted to a computer. With fast, easy-to-access machine information, you can optimize asset utilization, reduce security risks, improve maintenance management and implement before-failure repair strategies. The result is more uptime, lower operating costs and a higher overall return on equipment investment.

S•O•S℠ Services. Keep minor repairs from becoming major ones and avoid complete failures. By regularly taking samples from the ports provided, your Cat dealer tracks wear of components and parts, oil performance, and oil condition and uses that data to predict wear-related problems before they happen. Often a simple adjustment or replacement of a part, based on S•O•S reports, can keep a small problem from turning into a major repair – allowing your machine to be running when you need it, not waiting in the shop for service.



DEALER SUPPORT. The Caterpillar global network of independently-owned dealers is the best in the world at providing support to keep your equipment up and running. Known for parts availability and technical expertise, Cat dealers are partners in your business.





Service Capabilities. Cat field service technicians have the experience and tools necessary to service your machine on site. Field service trucks are fully loaded with state-of-the-art tools and diagnostic equipment as well as specifications and schematics for every Cat machine. Technical experts at the dealership and at Caterpillar are available to provide assistance to field service technicians when needed.

When on-site repair isn't enough, Cat dealerships are fully-equipped to service your equipment quickly.

PARTS AVAILABILITY. Caterpillar provides an unsurpassed level of personalized service for your wheel loader. With parts distribution centers throughout the world, most parts can be delivered in 24 hours.

REMANUFACTURED PARTS. Cat engines and major components are designed to be remanufactured and provide multiple life cycles. The Cat Reman program is more extensive than most rebuild programs. Components are actually remanufactured in the factory to original specifications with necessary product updates.

Strict reuse guidelines and unparalleled quality control ensure that reman products provide the reliability and durability that you expect from Caterpillar. Reman products are stocked in distribution centers around the world and are ready to install to minimize downtime, maintain productivity and profitability.

Courtesy of Machine.Market

DURABILITY

Built Strong And Tough

- ACERT™ Technology maintains engine performance, efficiency and durability while reducing emissions
- Heavy duty components withstand all operating conditions
- Strong, solid structures built to last



EPA TIER 3, EU STAGE III COMPLIANT C7 ENGINE. ACERT Technology combines proven systems with innovative new technologies to precisely deliver fuel to the combustion chamber. It maintains engine performance, efficiency and durability while dramatically reducing emissions.

The Cat C7 with ACERT Technology is a 7.2 L displacement, 6-cylinder, electronically governed engine. Electronic fuel injection is provided through the well-proven Caterpillar hydraulically actuated, electronically controlled unit injection (HEUI) system. A wastegate turbocharger, equipped with a titanium wheel for improved durability, combined with air-to-air aftercooling (ATAAC) provides consistent high horsepower with increased altitude capability.

Electronic Controller. The engine is governed by the ADEM™ A4 electronic control module. The controller continually adjusts engine output based on load demand using a series of sensors located on the machine and engine.

HEUI™ System. The HEUI™ system has been at work in Cat engines across the product line with a proven track record of consistent, durable, reliable performance.

Engine Block and Pistons. The gray, cast iron engine block is made of the same material as the cylinder heads. Wall diameters are thicker than in previous designs while adjustments have been made to reduce sound levels and increase rigidity. One-piece all-steel pistons are housed within a wet, replaceable cast iron cylinder liner constructed of high-strength, heat-treated castings. Steel-forged connecting rods are larger in diameter and are connected to the crankshaft with two bolts.

Cylinder Head. The cylinder head is a one-piece design that incorporates cross-flow design to facilitate air movement. This allows the engine to breathe cooler, cleaner air with less effort.

RADIATOR. Brazed aluminum construction provides a stronger joint for maximum durability and resistance to leaks. The 6-fins-per-inch, square-wave core design decreases the chance of blockage and plugging.



POWERSHIFT TRANSMISSION. The IT62H continues to use heavy-duty powershift transmission technology proven on previous models and currently used up through the largest wheel loader built by Caterpillar – the 994F.

The planetary powershift transmission features heavy-duty components to handle the toughest applications. Built-in electronic controls enhance shift quality, productivity and durability.

Control Throttle Shifting. Control Throttle Shifting regulates engine speed during high-energy directional changes for smoother shifting and longer component life.

Electronic Clutch Pressure Control. Electronic Clutch Pressure Control (ECPC) system modulates clutches individually to improve shift quality, component life and operator comfort. Adjustment is simplified with all solenoid valves externally mounted on top of the transmission housing.

AXLES. The IT62H axles are designed by Caterpillar for durability in all operating conditions. The front axle is rigidly mounted to the frame to support the weight of the wheel loader and withstand internal torque loads as well as external forces encountered throughout operation.

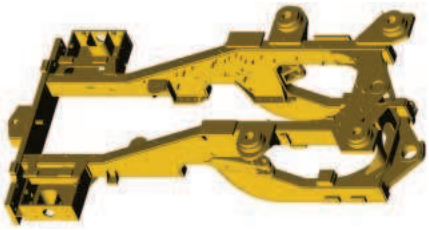
The rear axle is designed to allow ± 13° oscillation. All four wheels remain on the ground over uneven terrain providing excellent stability and traction.

Courtesy of Machine.Market



Integrated Braking System. The Cat exclusive Integrated Braking System reduces axle oil temperatures and improves transmission neutralizer smoothness. IBS has a direct impact on durability of the axles and brakes especially in applications involving long distances and/or heavy braking.

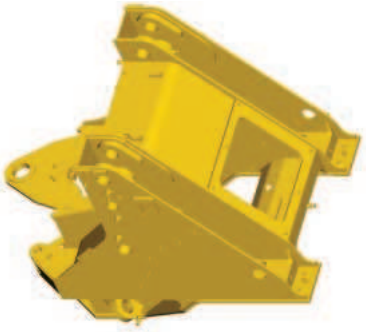
STRUCTURES. The articulated frame design of the IT62H features a durable box-section engine frame and rigid four-plate loader tower that is robotically welded. Robotic welding creates frame joints with deep plate penetration welds and excellent fusion for maximum strength and durability.



Engine End Frame (EEF). A full box-section engine end frame with hitch plates at the front end provides a strong, rigid structure that resists twisting and impact loads. The result is an extremely solid mounting platform for the engine, transmission, axle, ROPS and other accessories.



Spread Hitch. The distance between the upper and lower hitch plates is an important contributor to machine performance and component life. The Caterpillar spread hitch design provides excellent load distribution and bearing life. Both the upper and lower hitch pins pivot on double tapered roller bearings – improving durability by distributing both vertical and horizontal loads over a larger surface area. The wide opening also provides excellent service access.



Non-Engine End Frame (NEEF). The non-engine end frame provides a solid mounting base for the front axle, lift arms, lift cylinders and tilt cylinders. The fabricated, four-plate loader tower absorbs the forces associated with loading, twisting and penetration.



Counterweight. The one-piece counterweight is integrated into the IT62H design and styling. This 4389 lb (1991 kg) counterweight incorporates the rear lights into the top of the structure.



8-Bar Linkage. This linkage provides parallel lift to keep the load level throughout the lift cycle – particularly important when using forks. Parallel lift allows the operator to concentrate on placing the load, instead of retaining it. Visibility to the work tool is excellent.

Larger tilt cylinders and a more robust linkage design improve breakout force and overall rackback capability. Rotary sensors for the lift circuit let the operator electronically set detent positions from the cab.

Courtesy of Machine.Market

PRODUCTIVITY

Work Smart And Move More

- Hydraulics are easy to control with low effort
- Maximum fuel efficiency and flexibility in idle speeds
- Consistent horsepower regardless of conditions
- Standard and optional features that maximize productivity



LOAD SENSING HYDRAULICS. The IT62H features a load sensing hydraulic system that automatically adjusts to operating conditions to provide only the hydraulic flow requested by the operator for improved fuel efficiency.

With the new M3PC Priority Proportional Pressure Compensation Valve, implement control is improved over the previous system – raise/lower and rack back/dump can be operated simultaneously and fine modulation is repeatable for improved productivity.

Operators will notice enhanced ease of operation, more rimpull into the pile and a 20% increase in lift force.

A two-pump hydraulic system provides one pump dedicated to the hydraulic system, the other to the steering system. This ensures full flow to both steering and implements – guaranteeing power when and where it is needed.



Electrohydraulic Implement Controls. Electrohydraulic implement controls on the IT62H provide the operator with in-cab programmable kickouts to prevent material spillage – improving productivity. The implement control console features an optional Forward/Neutral/Reverse switch allowing fast, easy directional changes to reduce cycle times.

Soft detents allow the implement lever to return to center after actuation instead of being held in place. Once the operator activates the detent, the lever is released and the work tool will automatically move to the kickout position and the lever will return to center.

An optional single lever control also provides soft detents.

CONSTANT NET HORSEPOWER. On many competitive machines, gross horsepower is constant, meaning that net engine power available for actual work will vary based on demands made from parasitic sources, such as air conditioning or cooling fans.

The Cat C7 engine is electronically configured to provide constant net horsepower at full parasitic load enhancing productivity and improving fuel efficiency.

On-Demand Fan. With electronic control of the variable speed on-demand fan, temperature levels of the engine coolant, transmission oil, hydraulic oil and air inlet manifold are constantly monitored. This data is used to control and maintain fan speed at the level necessary to maintain normal system temperatures. Controlled fan speed improves fuel efficiency, lowers noise levels and reduces radiator plugging.

Separated Cooling System. Many competitive loaders use cooling systems that pull air in from the sides, through the engine compartment and exhaust it out the rear of the machine. The IT62H cooling system is isolated from the engine compartment by a non-metallic shield. The hydraulically driven, variable speed fan draws in clean air from the rear of the machine and exhausts it out the sides and top of the hood. The end results are optimal cooling efficiency, increased fuel efficiency, less radiator plugging and reduced operator sound levels.



PLANETARY POWERSHIFT TRANSMISSION. The electronic planetary powershift transmission with automatic shift capability is designed and built by Caterpillar. The very responsive, full-power speed and directional changes provide excellent cycle times and productivity.

Courtesy of Machine.Market

VARIABLE SHIFT CONTROL.
Match transmission shifting patterns to machine application requirements. Variable Shift Control (VSC) improves shift quality and fuel efficiency in certain applications by allowing the transmission to upshift at lower engine RPMs.

RIDE CONTROL. The optional Ride Control System improves ride, performance and load retention when traveling over rough terrain. Operators gain confidence moving at higher speeds in load and carry operations decreasing cycle times and increasing productivity.



Courtesy of Machine.Market

VERSATILITY

Built For Your Operation

- Special machine arrangements provided from the factory
- Quick couplers and variety of buckets and work tools for many applications

SPECIAL MACHINE ARRANGEMENTS. When you have a specialized operation, you need a specialized wheel loader to be productive. The following machine arrangement is available for the IT62H:

Industrial Loader. Heavy duty guarding and special features designed specifically for industrial applications, such as waste and scrap handling, allow the IT62H to withstand the harshest of conditions. Work tools designed specifically for these applications can be added to the machine.

WORK TOOLS AND QUICK COUPLERS. A variety of buckets, work tools and couplers are available from the factory or from your Caterpillar dealer to customize the IT62H for your operation.



Quick Couplers. Quick couplers provide unmatched versatility for wheel loaders. The hydraulic model allows an operator to change attachments in seconds without leaving the cab. On the manual model, the operator must lock the pins.

Buckets. Various types and sizes of buckets are available to match Cat integrated tool carriers to any job, anywhere, any time.

Coal Buckets. Coal buckets maximize productivity in loading and stockpiling coal and other materials of similar density.

General Purpose Buckets. General purpose buckets provide good all-around performance for stockpiling, rehandling, excavating and bank loading. A heavy duty general purpose bucket can be used for more aggressive applications.



Material Handling Buckets. The material handling bucket is a flat-floor bucket used for handling stockpiled materials such as aggregates or other easy-to-load materials requiring moderate breakout force.

Multi-Purpose Buckets. Multi-Purpose Buckets have a unique four-way action that can load, strip topsoil, bulldoze, clamp pipe or large chunks of concrete, clean up debris, and many other tasks.

Rock Buckets. Rock buckets are designed for face or bank loading in mining or quarry applications. The straight-edge rock bucket provides higher breakout force and increased dump clearance. The spade-edge rock bucket offers increased penetration in certain applications.

Side Dump Buckets. Side Dump Buckets dump both to the front and to the side of the machine, an advantage when working in tight quarters, such as street work, tunnel construction and building levees.

Waste Buckets. Waste buckets are designed for long life in the harsh world of refuse applications. This high-capacity bucket is well-suited for loading, sorting and other transfer station work.

Woodchip and Clean-Up Buckets. Woodchip and high-capacity clean-up buckets are available for forestry and millyard applications.



Ground Engaging Tools (GET). Several GET options are available from Caterpillar for the IT62H buckets. A cast corner adapter is incorporated into the design of the buckets that allows a tooth to be placed on the extreme corner for protection against base bucket wear.

Reversible bolt-on cutting edges (BOCE) and a bolt-on half-arrow cutting edge are also available for the IT62H buckets.

The Cat K Series™ tooth system features an easier-to-install tip and provides very secure tooth retention. No special tools are required for installation and removal.

Courtesy of Machine.Market



Forks. From pallet forks up through specialized logging arrangements, loader forks are available for a wide range of jobs.

Core Forks. Superior design makes Cat core forks the logical choice for plywood mills and millyards.

Grapple Forks. Grapple forks with kickout offer many high-performance log-handling features such as easy loading, increased dump clearance and improved sorting ability.

Logging Forks. Logging forks are designed for heavy-duty applications – loading and unloading trucks, sorting, decking and feeding the mill.

Lumber and Log Forks. Lumber and log forks are ideal for a wide range of jobs – loading, decking and sorting lumber, logs or palletized material.

Millyard Forks. Used for unloading, sorting, decking and feeding logs to the mill, millyard forks maximize loader efficiency in millyard applications.



Pallet Forks. When used with a quick coupler, pallet forks increase the versatility of the machine; ideal for handling a variety of materials.

Other Work Tools. Caterpillar offers a constantly increasing array of work tools to add value and functionality to Cat integrated toolcarriers.



Material Handling Arms. Material Handling Arms move pipe, concrete blocks, highway dividers and other construction materials quickly and precisely.

Loader Rakes. Loader Rakes are durable, high-capacity tools for land clearing and site clean up. Rakes are available with or without top clamps and in quick coupler and pin-on models.

Angle Blades. Angle blades, available in both manual and hydraulic versions, equip Cat machines to sidecast soil, plow snow, pioneer roads and move debris and rocks.

Angle Brooms. Hydraulic and manual angle brooms are ideal for clearing parking lots, industrial plants, millyards, airport runways, streets, driveways and lanes.

Special Application Brooms. Special application brooms are built to handle tough sweeping situations found in sewer and pipeline, governmental and coal seam applications.

Snow Removal. Hydraulic and manual reversing plows and trip-edge reversing plows are available for the IT62H integrated toolcarriers. Quick reversing action plows are ideal for clearing snow on mountain roads, airports, large parking lots, plant facilities and rural or urban roads. V-plows penetrate drifts and throw snow both directions to quickly clear a path through heavy accumulations.

Courtesy of Machine.Market

OPERATOR COMFORT

Work Comfortably And Efficiently

- Comfortable operation
- Excellent visibility
- Easy entry and exit
- Controlled vibration

OPERATING ENVIRONMENT. The IT62H maintains the distinction of offering the largest, most ergonomic cab in its class.



Seat. The Cat C-500 Series Comfort air suspension seat, standard in the IT62H, is built strong and durable and is 6-way adjustable to accommodate all-sized operators. The cast one-piece back and seat pan prevent protrusions under the cushions. The seat features an automotive-style lumbar support for maximum comfort. The right hand armrest with integrated implement controls adjusts for comfortable, convenient operation. A heated seat option is available for additional comfort.

VISIBILITY. The IT62H provides excellent visibility to both the front and rear of the machine. Distortion-free flat glass stretches to the floor of the cab for excellent visibility to the bucket. Wet-arm wipers on both front and back keep the windows clean in any condition. The cab roof has channels that direct rain off the corners of the cab keeping windows clear. An overhang on all sides protects the operator from glare.

Rear Vision Camera. An optional rear vision camera is available to clearly monitor movement behind the wheel loader.



Lighting Packages. Optional lighting packages are available for roading or low-light applications. The optional High Intensity Discharge (HID) lights provide exceptional lighting for night work. A rotating beacon is available as a safety feature.



ENTRY AND EXIT. An open ladder design keeps debris build-up on the steps to a minimum. The ladder is at a 5° forward incline for easy entry and exit.

Platforms are wide allowing ease of movement to the front or rear of the machine. The main cab door opens a full 180° and latches in place to allow safe navigation to the rear of the machine.The right side door opens 10°, or completely for secondary exit simply by pulling a pin. A full-length ladder on the right side facilitates safe exit if needed.

VIBRATION. Caterpillar understands that wheel loaders work in some of the harshest environments. By controlling normal machine vibrations, operator efficiency and productivity are improved. From the ground up, the Cat IT62H is designed with many features, both standard and optional, that reduce vibration.

- The oscillating rear axle follows the contour of the ground while allowing the cab to stay steady.
- The cab is attached to the frame with iso-mounts designed to reduce shock loads from the ground.
- The articulation joint is equipped with two neutralizer valves that prevent frame-to-frame contact.
- Cylinder dampening slows the bucket as it reaches the limits of travel, preventing machine jarring.
- Ride Control is an option designed to reduce jolting and bouncing during load and carry operations. An accumulator acts as a shock absorber to reduce machine pitching and provide a smoother ride over rough terrain.
- Electronically controlled, automatic kickouts prevent the jerking and bouncing associated with abrupt cylinder stops.
- Air suspension seat-mounted implement controls reduce vertical vibrations that come up through the floor.

Courtesy of Machine.Market

STEERING SYSTEM. The conventional steering configuration offers a low-effort hand metering unit hydraulic steering system. Load sensing steering directs power through the steering system only when needed. When not steering, more engine power is available to generate rimpull, breakout force, lift force, and results in reduced fuel consumption. The steering column tilts for maximum operator comfort.

The transmission is controlled by the shift lever located on the left side of the steering column. To upshift or downshift, the operator rotates the knob on the end of the shift lever. For directional shifts, the lever is moved forward or backward.





CONTROLS. The main control panel on the IT62H is located high on the right ROPS post – keeping everything within reach of the operator while maintaining visibility to the ground. Keeping all switches and controls conveniently placed allows better efficiency and improved productivity all while minimizing operator fatigue. The front dash panel is conveniently laid out for easy monitoring of gauges and operation of controls.

Courtesy of Machine.Market

OWNING AND OPERATING COSTS

The IT62H – Best Value For Your Operation

- More return for your integrated toolcarrier investment through proven Cat fuel efficiency
- Sight gauges, grouped maintenance points, easy engine access, ecology drains, maintenance-free batteries – all simplify daily maintenance
- Electronic monitoring systems track product health to avoid unscheduled costly repairs
- Unsurpassed parts availability reduces downtime
- Excellent resale value provided by genuine Cat quality, outstanding dealer service and unmatched dealer support programs
- Caterpillar Financial Services and Cat dealers understand your business

FUEL EFFICIENCY. Many manufacturers tout fuel consumption as one of the determining factors for machine acquisition, but fuel consumption is only part of the story. Productivity must also play a part in the decision. Even more importantly, how fuel consumption and productivity interact – fuel efficiency – should be considered.

IT62H Fuel Efficiency. Customer testing of the IT62H is showing an improvement in fuel efficiency over the IT62G Series II. This fuel savings is achieved through the integration of the Caterpillar proportional-flow load sensing hydraulic system, Engine Idle Management System software, Variable Shift Control and ACERT™ Technology.

ACERT™ Technology Fuel Economy. Based on Caterpillar testing, the fuel economy of Cat engines with ACERT Technology is 3 to 5 percent better than current competing technologies. This fuel economy is directly related to the complete combustion of fuel due to the integration between the electronic control that monitors conditions, the air management system that controls air volume and the fuel injection system that delivers just the right amount of fuel as needed.

Free Wheel Stator Torque Converter (FWSTC). The free wheel stator torque converter improves power train efficiency in load and carry operations which contributes to the improved fuel efficiency of the IT62H.



ENGINE IDLE MANAGEMENT SYSTEM. The Engine Idle Management System (EIMS) maximizes fuel efficiency and provides flexibility in managing idle speeds for specific application requirements. Four idle control speeds are available.

Hibernate Mode. Idle speed drops after a preset time to provide lower fuel consumption, reduced sound levels and lower emissions.

Work Mode. Adjust working idle speeds according to customer preference and operating conditions.

Warm-Up Mode. Keep the engine at a consistent temperature in cold conditions.

Low Voltage Mode. Prevent battery drain due to high electrical loads from attachments and accessories.



MAINTENANCE. Proper maintenance of your integrated toolcarrier can help control expenses and lower your owning and operating costs. The IT62H provides unmatched serviceability by offering:

- Hydraulic service center
- Electric service center
- Well-protected, easily visible sight gauges
- Ground level maintenance points
- Easy access to engine compartment
- Ecology drains for simple and clean fluid drainage
- Brake wear indicators for ease of inspection
- Maintenance-free batteries
- Extended oil and filter change intervals
- Airborne debris-resistant, swing-out grill provides more efficient airflow

MONITORING SYSTEMS. Monitoring product health simplifies maintenance planning and reduces costs.

Caterpillar Monitoring System. The Caterpillar Monitoring System (CMS) tracks critical machine systems to alert the operator to potential need for service. Three levels of warning allow the operator to assess the situation more accurately.

Courtesy of Machine.Market

Product Link. With Product Link owners can collect and track multiple types of information – from machine location and service meter hours, to health and productivity information.

EquipmentManager. With a subscription to EquipmentManager information from Product Link can be transmitted to a computer. Return on equipment investment is optimized through maintenance management and improved uptime.

Machine Security System. Stolen equipment equates to lost production and increased costs. Eliminate machine theft and unauthorized usage with the Cat Machine Security System (MSS). MSS is integrated into the machine's electronic system and can protect most brands of equipment by requiring a uniquely coded key to start the machine.

S•O•S Services. Managing component life and machine availability decreases downtime while improving your productivity and efficiency. S•O•S Services can help you do that. Regular fluid sampling is used to track what is going on inside the equipment. Wear-related problems are predictable and easily and quickly repairable. Maintenance can be done according to your schedule, resulting in increased uptime and flexibility in maintenance and repair before failure.

PARTS AVAILABILITY. Caterpillar provides an unsurpassed level of personalized service for your wheel loader. With parts distribution centers worldwide, most parts can be delivered in 24 hours. Easy access to parts reduces downtime.

RESALE VALUE. Owning quality equipment is a very important factor in maintaining resale value. Cat not only supplies quality equipment but also provides product and dealer support to maintain the reliability and durability of your machine.



Customer Support Agreements. A Customer Support Agreement (CSA) is any arrangement between you and your Cat dealer that helps you lower your total cost per unit of production. CSAs are flexible, allowing them to be tailored to your business. They can range from simple Preventive Maintenance Kits to sophisticated Total Cost Performance Guarantees. Having a CSA with your Cat dealer allows you more time to do what you do best – run your business.

Caterpillar Equipment Training Solutions. A thorough understanding of machine systems and a high level of skill in operation helps achieve maximum efficiency and improves return on investment. Caterpillar Equipment Training Solutions programs help provide operators with high levels of proficiency and confidence. Contact your Cat Dealer for more information on Caterpillar Equipment Training Solutions programs.

Caterpillar Financial Services Corporation. Cat Financial understands your business, your industry and the challenges you face. That's why they can provide payment plans to fit your unique needs – and to help you achieve your goals.

Courtesy of Machine.Market

SERVICEABILITY

Easy To Maintain – Easy To Service

- Grouped service points and sight gauges for easy daily maintenance
- Convenient access to engine compartment for excellent serviceability
- Swing-out grill and cooling cores for easy cleaning
- Electronic systems to monitor product health



HYDRAULIC SERVICE CENTER. Transmission oil and hydraulic filters are located in the Hydraulic Service Center, behind the hinged, right-side access ladder. The hydraulic oil tank can be drained from this location using the access port.

- Hydraulic filter change interval at 500 hours
- Transmission filter change interval at 1000 hours



ELECTRIC SERVICE CENTER. Batteries, relay panel and an optional tool box are conveniently located below the left-side access platform. The engine shutdown switch is housed with the relay panel. A compartment integrated into the access platform contains the hood tilt actuation switch, master switch and jump-start receptacle.



GROUND LEVEL GREASE POINTS. Grease fittings are grouped on the right side of the machine in two convenient locations – in a service compartment just below the right-side service platform, and a bank located just off the non-engine end frame. These locations facilitate easy lubrication of vital components located throughout the machine.



REMOTE PRESSURE TAPS. Pressure taps for the steering and hydraulic systems, transmission (optional) and brakes are grouped behind an access panel just below the right-side service platform.



S•O•S SERVICES. Sampling valves on the IT62H allow quick access to engine, transmission and hydraulic oils for S•O•S analysis. Oil change intervals and other services can be optimized according to your work schedule, reducing downtime and managing expenses.

SIGHT GAUGES. Well-protected, yet easily visible sight gauges for the transmission, hydraulic oil and radiator coolant allow easy daily checks while reducing the risk of contaminants entering the systems.

BRAKE WEAR INDICATORS. Axles are equipped with standard brake wear indicators, allowing a technician to easily determine when it is necessary to service the brakes.

Courtesy of Machine.Market



ENGINE COMPARTMENT ACCESS. The non-metallic hood on the IT62H has been redesigned and restyled from previous models. Side and top panels are stronger due to more robust reinforcement ribs – the change in contour also adds to rigidity of the hood.

A single mechanical lift cylinder with manual back-up opens the hood. The tilting hood provides excellent access to the engine compartment, and if necessary, the entire hood can be removed with the built-in lift points.

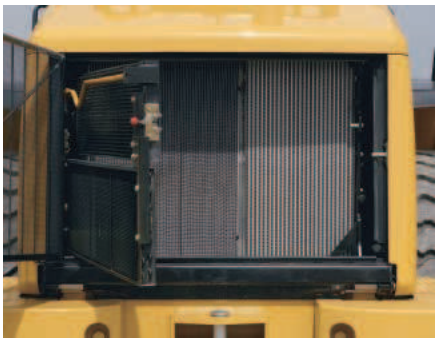
With the hood closed, quick checks of engine oil levels and the coolant sight gauge can be completed through the side service doors.

Panels located behind the tires lift up and can be removed for additional access. Roading fenders hinge from the rear and swing out allowing easier access to the engine compartment.



ELECTRIC PRIMING PUMP. An electric fuel priming pump located on the primary fuel filter base eliminates the need to pre-fill or manually prime filters after a change, eliminating engine contamination.

ECOLOGY DRAINS. Engine, transmission and hydraulic oils can be easily drained with standard-equipment ecology drains. An axle oil ecology drain is optional.



COOLING SYSTEM. Cooling system access for clean-out and maintenance is outstanding. The perforated and corrugated grill minimizes debris build-up and swings out for easy cleaning and access to the cooling cores.

The full-width air conditioning condenser and oil cooler cores swing out 45° to allow easy cleaning of the rear radiator face. Access panels on either side of the radiator support structure provide access to the front face of the radiator and ATAAC cores for easy cleaning.

CAB. The entire operator station can be removed in about 45 minutes and is easy to re-attach. Quick disconnects are used so no wires need to be cut and no refrigerant is lost.

Cab cleaning is made easy with channels on the cab floor and no threshold at the door – the floor can be swept or mopped out easily.

COMPLETE CUSTOMER SUPPORT. Cat field service technicians have the experience and tools necessary to service your loader on site. Technical experts at the dealership and Caterpillar can provide additional assistance to field service technicians as needed.

When on-site repair isn't enough, Cat dealerships are fully equipped to service your loader quickly.

Courtesy of Machine.Market

Engine

Engine Model	Cat® C7 ACERT™	
Gross Power – SAE J1995	172 kW	230 hp
Net Power – ISO 9249	158 kW	211 hp
Net Power – SAE J1349	156 kW	209 hp
Net Power – 80/1269/EEC	158 kW	211 hp
Peak Torque (Net) @ 1,400 RPM	907 N·m	669 ft-lb
Bore	110 mm	4.33 in
Stroke	127 mm	5 in
Displacement	7.2 L	439 in^3

- EPA Tier 3, EU Stage III Compliant
- These ratings apply at 1,800 rpm when tested under the specified standard conditions.
- Rating for net power advertised based on power available when the engine is equipped with alternator, air cleaner, muffler and on-demand hydraulic fan drive at maximum fan speed.

Weights

Operating Weight	19 397 kg	42,770 lb

- For 3.25 m^3 (4.25 yd^3) material handling bucket with BOCE

Buckets

Bucket Capacities	3.25-4.25 m^3	4.25-5.5 yd^3
Max Bucket Capacity	4.25 m^3	5.5 yd^3

Operating Specifications

Breakout Force	159 kN	35,775 lb
Static Tipping Load, Full Turn – Bucket	11 730 kg	25,865 lb
Static Tipping Load, Full Turn – Forks	8310 kg	18,324 lb

- For 3.25 m^3 (4.25 yd^3) material handling bucket with BOCE
- For 1524 mm (60 in) forks

Transmission

Forward 1	7 km/h	4.3 mph
Forward 2	13 km/h	8.1 mph
Forward 3	22.6 km/h	14 mph
Forward 4	38 km/h	23.6 mph
Reverse 1	7.6 km/h	4.7 mph
Reverse 2	13.9 km/h	8.6 mph
Reverse 3	24.5 km/h	15.2 mph
Reverse 4	40 km/h	24.9 mph

- Maximum travel speeds (23.5-25 tires).

Hydraulic System

Bucket/Work Tool System – Pump Output	270 L/min	71 gal/min
Steering System Pump Type	Piston	
Hydraulic Cycle Time – Raise	6 Seconds	
Hydraulic Cycle Time – Dump	2.1 Seconds	
Hydraulic Cycle Time – Lower, Empty, Float Down	2.6 Seconds	
Hydraulic Cycle Time – Total	10.7 Seconds	

- Implement System (Standard), Piston Pump – Rated at 2,100 rpm and 1,000 psi (6900 kPa).
- Cycle time with rated payload

Brakes

Brakes	Meets required standards.

- Meet OSHA, SAE J1473 OCT90 and ISO 3450-1985 standards.

Axles

Front	Fixed front	
Rear	Oscillating +/- 13°	
Maximum Single-Wheel Rise and Fall	470 mm	18.5 in

Courtesy of Machine.Market

Tires

Tires	Choose from a variety of tires to match your application.

- Choice of:

23.5R25, L2, VSW

23.5R25, L2, VUT D2A

23.5R25, L2, XTLA

23.5R25, L3, VMT

23.5R25, L3, XHA

23.5R25, L5, XMINE

750/65R25, L3, XLD

23.5-25, L2, SGGL

- NOTE: In certain applications (such as load and carry) the loader's productive capabilities might exceed the tires' tonnes-km/h (ton-mph) capabilities. Caterpillar recommends that you consult a tire supplier to evaluate all conditions before selecting a tire model. The 23.5-25 size range and other special tires are available on request.

Cab

ROPS/FOPS	Meets SAE and ISO standards.

- Caterpillar cab with integrated Rollover Protective Structure (ROPS) are standard in North America and Europe.
- ROPS meets SAE J1040 APR88 and ISO 3471:1994 criteria.
- Falling Objects Protective Structure (FOPS) meets SAE J231 JAN81 and ISO 3449:1992 Level II criteria.
- The operator sound pressure level measured according to the procedures specified in ISO 6394:1998 is 72 dB(A) for the cab offered by Caterpillar, when properly installed and maintained and tested with the doors and windows closed.
- Hearing protection may be needed when operating with an open operator station and cab (when not properly maintained or doors/windows open) for extended periods or in noisy environments.
- The sound pressure level is 111 dB(A) measured according to the static test procedure and conditions specified in ISO 6395:1998 for a standard machine configuration.

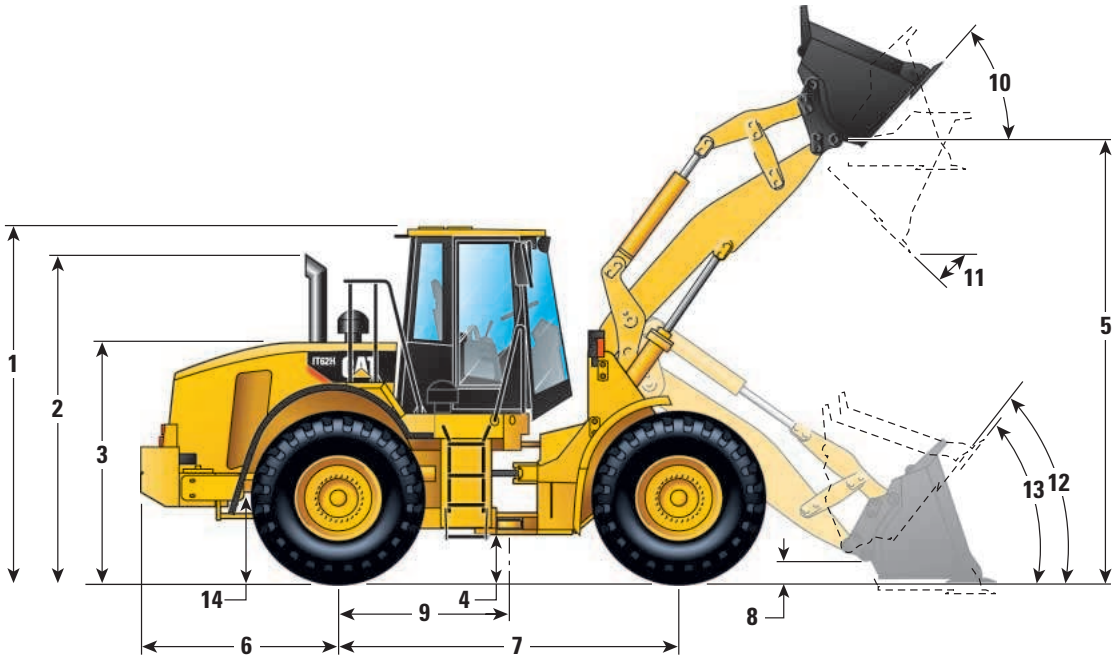
Service Refill Capacities

Fuel Tank – Standard	314 L	83 gal
Cooling System	42 L	11 gal
Crankcase	30 L	7.9 gal
Transmission	34 L	9 gal
Differentials and Final Drives – Front	36 L	9.5 gal
Differentials and Final Drives – Rear	36 L	9.5 gal
Hydraulic Tank	110 L	29 gal

Courtesy of Machine.Market

Dimensions – Material Handling Bucket

All dimensions are approximate.



1	Height to top of ROPS	3452 mm	11'4"
2	Height to top of exhaust pipe	3369 mm	11'1"
3	Height to top of hood	2462 mm	8'1"
4	Ground clearance with 23.5R25 (see Tire Options chart for other tires)	412 mm	1'4"
5	B-Pin height – standard	4123 mm	13'6"
6	Center line of rear axle to edge of counterweight	2000 mm	6'7"
7	Wheelbase	3350 mm	11'0"
8	B-Pin height @ carry – standard	315 mm	1'0"
9	Center line of rear axle to hitch	1675 mm	5'6"
10	Rack back @ maximum lift	57.7°	
11	Dump angle @ maximum lift	49.4°	
12	Rack back @ carry	51.5°	
13	Rack back @ ground	44.2°	
14	Height to center line of axle	748 mm	2'5"

Tires

Tread width for 23.5-25 is 2140 mm (7'0")

	Width over tires		Change in vertical dimensions		Change in operating weight		Change in static tipping load	
	mm	inches	mm	inches	kg	lb	kg	lb
23.5R25 VSW BS L2 Radial	2862	113	6	0.2	20	44	14	31
23.5R25 VUT D2A BS L2 Radial	2866	113	10	0.4	–41	–90	–29	–64
23.5R25 XTLA MX L2 Radial	2801	110	7	0.3	–112	–247	–79	–174
23.5R25 VMT BS L3 Radial	2851	112	3	0.1	124	273	88	194
23.5R25 XHA MX L3 Radial	2784	110	0	0.0	0	0	0	0
23.5R25 XMINE MX L5 Radial	2807	111	26	1.0	872	1,923	619	1,365
750/65R25 XLD MX L3 Radial	2879	113	7	0.3	460	1,014	326	719
23.5-25 SGGL FS L2 Bias	2834	112	14	0.6	–472	–1,041	–335	–739

Courtesy of Machine.Market

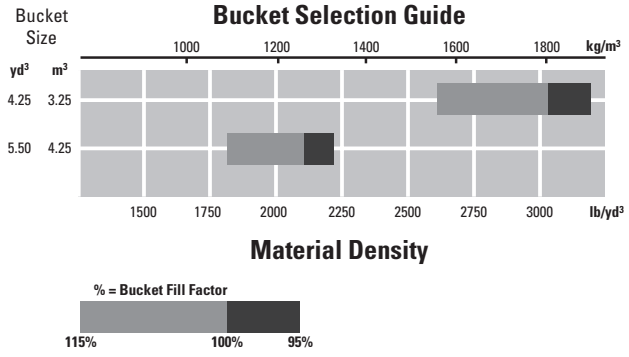
Operating Specifications

		Material Handling Buckets			
Bucket		**Bolt-On Edges**	**Teeth**	**Teeth and Segments**	**Bolt-On Edges**
Rated Bucket Capacity (§)	m^3	3.25	4.25	4.25	4.25
	yd^3	4.25	5.50	5.50	5.50
Struck Capacity (§)	m^3	2.61	2.61	2.61	2.61
	yd^3	3.41	3.41	3.41	3.41
Width (§)	mm	2885	2885	2885	2885
	ft/in	9'6"	9'6"	9'6"	9'6"
Dump Clearance at Full Lift	mm	2785	2730	2730	2840
and 45° Discharge (§)	ft/in	9'2"	8'11"	8'11"	9'4"
Reach at Full Lift	mm	1227	1317	1317	1227
and 45° Discharge (§)	ft/in	4'0"	4'4"	4'4"	4'0"
Reach with Lift Arm	mm	2767	2909	2909	2767
Horizontal and Bucket Level (§)	ft/in	9'1"	9'7"	9'7"	9'1"
Digging Depth (§)	mm	71	41	71	71
	in	2.80	1.61	2.80	2.80
Overall Length	mm	8498	8649	8649	8498
	ft/in	27'11"	28'5"	28'5"	27'11"
Overall Height with Bucket	mm	5579	5579	5579	5579
at Full Raise	ft/in	18'4"	18'4"	18'4"	18'4"
Turning Radius – Outside Corner of	mm	6727	6771	6771	6727
Racked Bucket, Carry Position (§)	ft/in	22'1"	22'2"	22'2"	22'1"
Static Tipping Load Straight *	kg	13 245	12 891	12 734	12 692
	lb	29,602	28,425	28,078	27,986
Static Tipping Load	kg	11 730	10 866	10 709	10 689
Full 40° Turn	lb	25,865	23,960	23,613	23,569
Breakout Force ** (§)	kN	159	190	175	176
	lb	35,775	42,750	39,375	39,600
Operating Weight * (§)	kg	19 397	19 179	19 344	19 249
	lb	42,770	42,290	42,654	42,444

* Static tipping loads and operating weights shown are based on standard machine configuration with 23.5R25 tires, full fuel tank, coolants, lubricants, air conditioner, ride control and operator.

** Measured 102 mm (4.0") behind tip of cutting edge with bucket hinge pin as pivot point in accordance with SAE J732C.

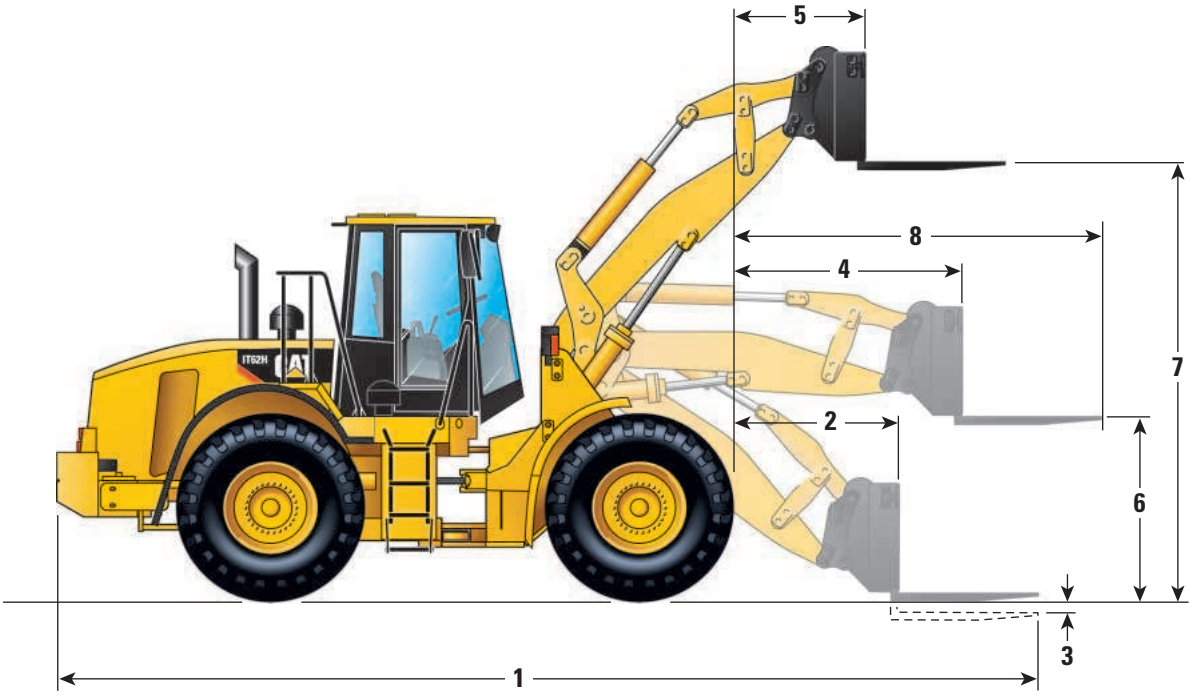
(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.



Courtesy of Machine.Market

Dimensions – Pallet Fork

All dimensions are approximate.



Fork tine length	mm in	1524 60"
1 Overall length, fork level on ground	mm ft/in	9116 29'11"
2 Carriage reach, fork level on ground	mm ft/in	1404 4'7"
3 Tine height, minimum lift, fork level	mm in	82 4"
4 Carriage reach, lift arm and fork level	mm ft/in	1948 6'5"
5 Carriage reach, maximum lift, fork level	mm ft/in	1090 3'7"
6 Tine height, lift arm and fork level	mm ft/in	1757 5'9"
7 Tine height, maximum lift, fork level	mm ft/in	3817 12'6"
8 Overall reach, lift arm and fork level	mm ft/in	3472 11'5"
Static tipping load, straight with lift arm and forks level	kg lb	9373 20,667
Static tipping load, full 40º turn with lift arm and forks level	kg lb	7945 17,519
Operating weight * (§)	kg lb	19 008 41,913

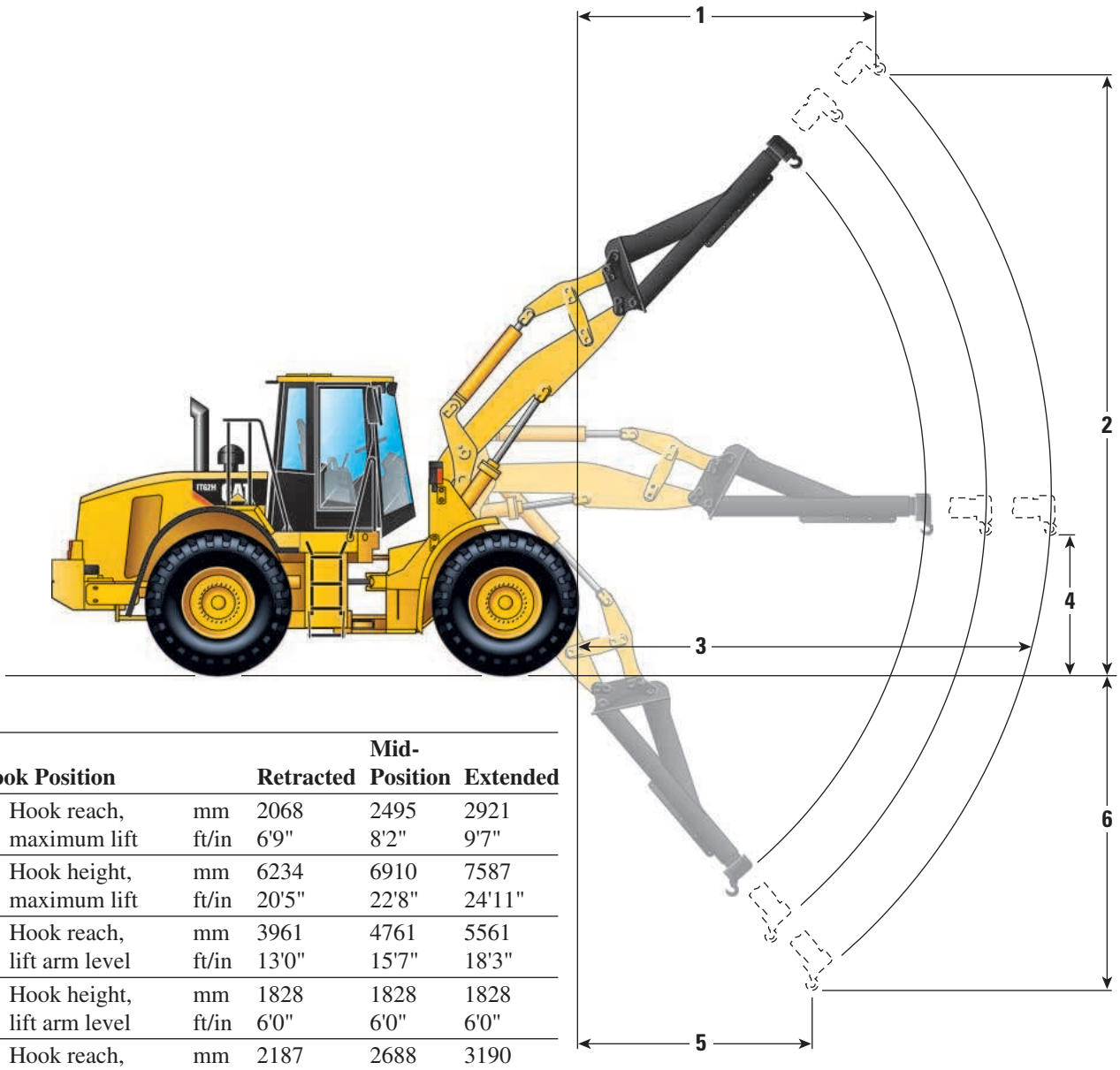
* Static tipping loads and operating weights shown are based on standard machine configuration with 23.5R25 tires, full fuel tank, coolants, lubricants, air conditioner, ride control and operator.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

Courtesy of Machine.Market

Dimensions – Material Handling Arm

All dimensions are approximate.



Hook Position		Retracted	Mid-Position	Extended
1 Hook reach, maximum lift	mm	2068	2495	2921
	ft/in	6'9"	8'2"	9'7"
2 Hook height, maximum lift	mm	6234	6910	7587
	ft/in	20'5"	22'8"	24'11"
3 Hook reach, lift arm level	mm	3961	4761	5561
	ft/in	13'0"	15'7"	18'3"
4 Hook height, lift arm level	mm	1828	1828	1828
	ft/in	6'0"	6'0"	6'0"
5 Hook reach, minimum lift	mm	2187	2688	3190
	ft/in	7'2"	8'10"	10'6"
6 Hook height, minimum lift	mm	1915	2539	3163
	ft/in	6'3"	8'4"	10'5"
Static tipping load, straight	kg	7330	6292	5506
	lb	16,163	13,874	12,141
Static tipping load, full turn	kg	6276	5388	4715
	lb	13,839	11,881	10,397
Operating weight * (§)	kg	18 472	18 472	18 472
	lb	40,731	40,731	40,731

* Static tipping loads and operating weights shown are based on standard machine configuration with 23.5R25 tires, full fuel tank, coolants, lubricants, air conditioner, ride control and operator.

(§) Specifications and ratings conform to all applicable standards recommended by the Society of Automotive Engineers, including SAE Standard J732C governing loader ratings.

Courtesy of Machine.Market

Standard Equipment

Standard equipment may vary. Consult your Caterpillar dealer for details.

ELECTRICAL
- Alarm, back-up
- Alternator, 80-amp brushless
- Batteries, Maintenance free (2) 1400 CCA
- Ignition key; start/stop switch
- Lighting system, halogen (6 total)
- Main disconnect switch
- Receptacle, starting, 24-volt
- Starter, electric, heavy-duty
- Starting and charging system (24-volt)

OPERATOR ENVIRONMENT
- Bucket/work tool function lockout
- Cab, pressurized and sound-suppressed ROPS/FOPS
  - Radio-ready (entertainment) includes antenna, speakers and converter (12-volt, 10-amp)
- Cigar lighter and ashtray (12-volt)
- Coat hook (2) with straps
- Computerized monitoring system
  - Instrumentation, gauges:
    - Digital gear range indicator
    - Engine coolant temperature
    - Fuel level
    - Hydraulic oil temperature
    - Speedometer/tachometer
    - Transmission oil temperature
  - Instrumentation, warning indicators:
    - Air inlet heater
    - Axle oil temperature
    - Electrical, alternator output
    - Engine inlet manifold temperature
    - Engine oil pressure
    - Fuel level
    - Fuel pressure, hi/low
    - Hydraulic oil level
    - Parking brake
    - Primary steering oil pressure
    - Service brake oil pressure
    - Transmission filter bypass
- Controls, electrohydraulic, lift and tilt function
- Heater and defroster
- Horn, electric (steering wheel/console)
- Light, dome (cab)
- Lunchbox, beverage holders and personal tray
- Mirror, rearview (internally mounted)
- Seat, Cat Comfort (cloth) with air suspension
- Seat belt, retractable, 51 mm (2") wide
- Steering column, adjustable angle
- Wet-Arm wipers and washers, front and rear
  - Intermittent front wipers
- Window, sliding (left and right side)

POWER TRAIN
- Brakes, full hydraulic enclosed wet-disc with Integrated Braking System (IBS) and brake wear indicator
- Driveline, extreme service (front)
- Engine, Cat C7 with ACERT Technology and ATAAC
- Fan, radiator, electronically controlled, hydraulically driven, temperature sensing, on demand
- Filters, fuel, primary/secondary
- Filters, engine air, primary/secondary
- Fuel priming pump (electric)
- Fuel/water separator
- Muffler, sound suppressed
- Precleaner, engine air intake
- Radiator, unit core
- Starting aid, air inlet heater
- Switch, transmission neutralizer lockout
- Torque converter, free wheel stator
- Transmission, automatic, planetary powershift (4F/4R)
- Variable Shift Control (VSC)

OTHER
- Automatic work tool positioner
- Counterweight
- Couplings, Caterpillar O-ring face seal
- Doors, service access (locking)
- Ecology drains, engine, transmission and hydraulics
- Fenders, steel (front and rear)
- Guard, crankcase
- Hitch, drawbar with pin
- Hood, non-metallic, power tilting
- Hoses, Caterpillar XT™
- Hydraulic oil cooler
- Hydraulics, two-function, pilot controls
- Kickout, lift and tilt, automatic (in-cab adjustable)
- Linkage, 8-bar, parallel lift
- Oil sampling valves
- Product Link ready
- Quick coupler, hydraulically actuated
- Remote diagnostic pressure taps
- Service center, electrical and hydraulic
- Sight gauges:
  - Engine coolant
  - Hydraulic oil
  - Transmission oil level
- Steering, load sensing
- Vandalism protection caplocks

TIRES, RIMS, WHEELS
- A tire must be selected from the mandatory attachments section. Base machine price includes an allowance based on a premium radial tire.

ANTIFREEZE
- Premixed 50% concentration of Extended Life Coolant with freeze protection to –34°C (–29°F)

Courtesy of Machine.Market

Optional Equipment

Optional equipment may vary. Consult your Caterpillar dealer for details.

Air conditioner
Buckets and work tools
Bucket Ground Engaging Tools (GET) – see Cat dealer for details
Camera, rear vision
Cooler, axle oil
Cooling, high-ambient (with or without air conditioning)
Differentials
  Limited slip, front or rear
  NO-SPIN, rear
Drain, axle ecology
Fan, auto-reversing
Fender extensions, front and rear
Fenders, narrow
Fenders, roading
Guard, axle seal
Guard, front window, wide or small mesh
Guard, power train
Heater, engine coolant, 120- or 240-volt
Hydraulic arrangement, three-valve
Joystick control, two- or three-valve
Lights, directional
Lights, high intensity discharge (HID)
Lights, roading
Light, warning beacon
Lights, work, cab-mounted
Machine Security System
Mirrors, external
Mirrors, heated external
Mirrors, heated external, folding
Open canopy
Precleaner, turbine
Precleaner, turbine/trash
Product Link
Radio, AM/FM Weatherband (CD)
Radio, CB-ready
Remote pressure taps, transmission
Ride Control System, two- or three-valve
Seatbelt, 76 mm (3") wide
Starting aid, ether
Steering, secondary
Switch, lift lever FNR (steering wheel machines)
Sun visor, front
Tool box
Special Machine Arrangements
  Industrial Loader Arrangement

Courtesy of Machine.Market

Notes

Courtesy of Machine.Market

Notes

Courtesy of Machine.Market

IT62H Integrated Toolcarrier

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at **www.cat.com**

© 2007 Caterpillar
All Rights Reserved
Printed in U.S.A.

Materials and specifications are subject to change without notice.
Featured machines in photos may include additional equipment.
See your Caterpillar dealer for available options.

CAT, CATERPILLAR, their respective logos, ACERT, "Caterpillar Yellow" and the POWER EDGE trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ5677-01 (5-07)
Replaces AEHQ5677

CATERPILLAR®