

825H

Soil Compactor



Engine

| | | |
|----------------|---------------------------------------------------------|--------|
| Engine Model | Cat [®] C15 with ACERT [®] Technology | |
| Gross Power | 299 kW | 401 hp |
| Flywheel Power | 264 kW | 354 hp |

Weights

| | | |
|------------------|-----------|-----------|
| Operating Weight | 32 734 kg | 72,164 lb |
|------------------|-----------|-----------|

Shipping Specifications

| | | |
|--------|-----------|-----------|
| Weight | 31 200 kg | 68,796 lb |
|--------|-----------|-----------|

825H Soil Compactor

Representing a long-standing commitment to quality and performance, this rugged, powerful machine is designed and built for heavy-duty compaction and dozing operations.

Power Train

- ✓ The 825H uses the Cat C15 diesel engine with ACERT® Technology which is U.S. EPA Tier 3/EU Stage III compliant. Smooth, consistent shifting with fingertip control and electronic controls contribute to increased levels of productivity. **pg. 4**

Operator Station and Controls

Experience a high level of productivity through Command Control steering with integrated transmission controls, fingertip blade controls, a large viewing area and spacious operator station. **pg. 10**

Hydraulics

The 825H uses electro-hydraulics for ease of operation and operator comfort. **pg. 6**

Tamping Wheels and Tips

Tamping wheel tip design and modified chevron pattern offer greater traction, penetration and compaction for high soil compaction production. **pg. 7**

Serviceability

- ✓ Many convenient service features such as hinged service doors, easily accessible scheduled maintenance points, conveniently located sight gauges and a separated cooling system make servicing easy. Service has been improved with new transmission remote pressure taps. **pg. 12**

The Cat 825H Soil Compactor was conceived and designed to surpass any competitor with exciting innovations that exceed customer expectations for performance, reliability and operator comfort.



Structures

Advanced design, materials and robotic welding contribute to increased durability and overall machine strength. **pg. 8**

Blades

Designed for general production dozing, road grading and clean-up Cat blades are durable. **pg. 9**

Optional Features

Various optional features are available to meet all your needs. **pg. 9**

Complete Customer Support

Your Cat dealer is your single, safe source for all your equipment needs. He offers a wide range of services that will fit your operation and keep you working longer with lower costs. **pg. 14**



✓ *New Feature*

Power Train

Delivers top performance and durability in tough applications.



Cat C15 Engine with ACERT® Technology.

The Cat C15 engine is an increased displacement version of the proven Cat 3406 engine. The C15 is U.S. EPA Tier 3/EU Stage III compliant and features a 3.5 percent horsepower increase over the previous 3406. The four stroke engine delivers fuel economy, durability and reliability in the most demanding conditions. High torque rise delivers performance you can feel with greater rimpull, lift force and faster cycle times. Resilient engine mounts dampen vibration for lower sound levels.

Engine Lubrication. Engine lubricating oil is filtered, cooled and supplied by a gear-type pump.

Mechanical Electronic Unit Injector (MEUI™). MEUI is a high-pressure, direct injection fuel system that is virtually adjustment-free. It electronically monitors operator and sensor inputs to optimize engine performance.



Air-to-Air Aftercooler (ATAAC) System.

The ATAAC system provides a separate cooling for the intake manifold air. It routes hot, compressed air from the turbo and cools it with a single pass, air-to-air aluminum heat exchanger. The cooled, compressed air greatly reduced the emissions produces, meeting U.S. EPA Tier 3/EU Stage III requirements.

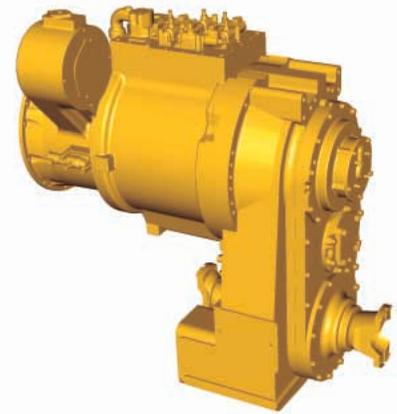
- Airflow matched turbocharger with power rating helps reduce emissions.
- 19 percent more bearing area allows the engine to operate at the maximum cylinder pressure.
- Higher cylinder pressure capability helps reduce fuel consumption and improves high altitude operation and provides reduced emissions.

Cylinder heat exhaust port sleeves reduce heat rejection which results in less heat transfer into the water jacket system and provides high torque rise.

Next Generation Modular Radiator (NGMR). The parallel flow system with six cores standard (seven on the high ambient machine) improves cooling capabilities. Serviceability is also enhanced as there is no top tank to remove. The NGMR uses copper brazed brass tubes and copper fins.

ADEM™ IV (Advanced Diesel Engine Management) System. ADEM IV uses a 32-bit computer with sensors throughout the engine to regulate fuel delivery, valve timing and all other engine systems that require input to manage load and performance.

ADEM IV also offers automatic altitude compensation, a cold mode start-up strategy, oil pressure and coolant warnings which result in precise engine speed control, superior cold start capability, low smoke and emissions in all operating conditions.



Transmission. The extreme duty, planetary, powershift Cat transmission features heavy-duty components to handle the toughest jobs. The four planet drives operate in all gears forward and reverse. Electronic controls provide features to enhance productivity, durability and serviceability. The additions of the Electronic Clutch Pressure Control (ECPC) contributes to improved shift quality, reduced torque spikes and overall transmission durability. Control Throttle Shift (CTS) offers smoother shifts and improves clutch and power train life.

Torque Converter. The torque converter uses a high-capacity impeller to handle the the engine's increased torque rise (24 percent) and power.

Heavy-Duty Axles. The fixed front and oscillating (± 9 degrees) rear heavy-duty axles feature strong gears and bearings in both the differentials and heavy-duty final drives for increased durability. Permanently lubricated, maintenance-free U-joints result in fewer parts and improved serviceability. Free floating axles shafts can be removed independently from the wheels and planetary drives.

Spindles and Final Drives. Planetary units can be removed independently from the wheels and brakes. The final drives feature planetary reduction at each wheel, and with torque developed at the wheel, less stress is placed on the axle shafts.

Differentials. Conventional front and optional No-SPIN rear differentials deliver maximum traction in low traction or inconsistent ground conditions.

Service Brakes. Completely enclosed and located on the two front wheels, the service brakes are self-adjusting with modulated engagement and are designed for easy servicing. With two brake pedals, the right pedal controls standard braking while engine deceleration and braking occurs with the left pedal.

Parking Brake. The spring-applied, oil-released, dry drum design parking brake is mounted on the transmission output shaft driveline for manual operation. The Caterpillar® Monitoring System alerts the operator if the transmission is engaged while the parking brake is applied.



Secondary Brake. The secondary brake can be applied manually by the operator. In addition, the Caterpillar Monitoring System alerts the operator if pressure drops and will automatically apply the parking brake.

Cold Start. This feature is improved by not only ADEM IV but also a new larger starter and four higher CCA batteries (1,000 CCA).

Hydraulics

Well-balanced hydraulics deliver precise, low-effort control and trouble-free operation.



Hydraulic System. The hydraulic system provides low-effort blade control. Seat mounted levers send electrical signals to a pilot valve mounted on the front frame, moving the sound, heat and effort caused by the hydraulic valve out of the operator's station.

Command Control Steering. A mechanical feedback system combines with valve ratio to provide quarter-turn, side-to-side steering. Unlike systems that rely on steering wheel velocity to activate steering cylinders, Command Control steering directly links the steering wheel position to articulation. The speed the machine turns is proportional to the steering wheel position. The benefit is precise control, quicker response and dramatically reduced operator motion and effort.

Load Sensing Steering. With load sensing steering, machine performance is maximized because power is directed to the steering system only when the operator steers the machine. This allows more power to be applied to the ground when the machine is not being steered. It also helps decrease fuel consumption since the steering system does not constantly draw on the engine.

Positive Displacement Hydraulic Pumps. All hydraulic pumps are mounted on a single pump drive for improved serviceability.

XT-3™ and XT-6™ Hose. Reliable XT-3 ES and XT-6 ES hoses, along with o-ring face seals and a large capacity life cylinder complete the hydraulic system. Reliable components reduce the risk of leaks and blown lines, helping protect the environment and reducing operating costs.

Tamping Wheels and Tips

The heart of any compaction system.

Chevron Tamping Tip Design.

The modified chevron tamping wheel tip design provides greater ground pressure, more compaction, excellent traction and a smooth ride.

Wheel Tips. There are 13 tips per row and 65 tips per wheel for excellent compaction.

Compaction. Compaction is achieved from the bottom of the lift to the top. The tapered tips walk out of the lift without “fluffing” the soil. The top of the lift is compacted and the surface is relatively smooth and sealed so hauling units are able to maintain a high speed when traveling over the fill. The 825H travel speed allows four forces of compaction: pressure, manipulation, impact and vibration. Since the 825H can also spread fill, the number of spreader tractors may be able to be reduced.

High Density Wheels. Designed with longer and narrower tips, high density wheels provide higher ground contact pressure and provide the ability to achieve more difficult density requirements. They are capable of liquid ballast for additional compactive benefit and self-seating valves can relieve pressure from the ballast. High density tips meet stringent compaction specification requirements. Tip height is 215 mm (8.5 in) and tip width is 168 mm (6.6 in).



Standard Tips. Standard tips are used in typical soil compaction applications where compaction specification requirements are 95-100 percent Standard Proctor. Tip height is 188.3 mm (7.4 in) and tip width is 224 mm (8.8 in).

Symmetrical Tamping Tip Pattern.

Equal compaction is forward or reverse is the result of the symmetrical tamping tip pattern. Tips are full perimeter and replaceable. The tip is welded to a base assembly, which then is welded directly to the drum.

Cleaner Bars. Each wheel has two cleaner bars to keep the drums free of carryover dirt, regardless of rolling direction so efficiency is maximized.

Adjustable Cleaner Bar Tip.

The adjustable cleaner bar tips are heat-treated and direct hardened, cutting edge steel to increase wear life, which translates into lower operating costs.

Structures

Advanced design and materials provide superior strength to the purpose built structures.



Structure Construction. Combines the use of robotic welding on up to 90 percent of the 825H, while castings are used in several areas to increase strength by helping to spread the loads and reduce the number of parts. This provides highly consistent welds with deep plate penetration and excellent plate fusion. The benefits are increased durability and fatigue strength. The computer controlled machining ensures the alignment of pin bore, axle pad, cab mount and transmission/engine components.

Box Section Engine End Frame.

Designed to resist twisting and torsional forces, the box section engine end frame provides a solid foundation for the axles, engine and transmission.

Front Frame. The two-plate front frame provides maximum structural strength during compaction and dozing applications.

Spread Hitch Design. The spread hitch design improves load distribution by reducing loads to the hitch bearings. The large center hitch design improves hydraulic line routing and makes service access easier.

Upper and Lower Hitch Pins. The hitch pins pivot on double-tapered roller bearings. Box-style sections in the hitch pins and crossmember assembly improve frame structure strength. Increased diameter lower hitch pins add to the robust design.

Engine and Transmission Mounts. A rubber isolation mount design reduces noise and vibration.

Blades

Multiple box-section construction with heat treated moldboard and DH-2 steel edges and end bits contribute to long blade life.

Straight Blade. The straight blade is standard on the 825H.

Outside Mounted S-Blade. The S-Blade features multiple box-section construction, including heat treated moldboard and DH-2 steel cutting edges and engine bits for long life. The outside mounting is a stronger design because stresses are put on the frame rather than the blade so blade flexing is reduced. It also allows for higher lift and a wider blade can be used than with an inside mounted design.

Operator Controls. Lift, tilt and tip are standard. The controls are conveniently located to the right of the operator.

Applications. The 825H excels at compacting, boosting scrapers, backfilling and spreading fill.



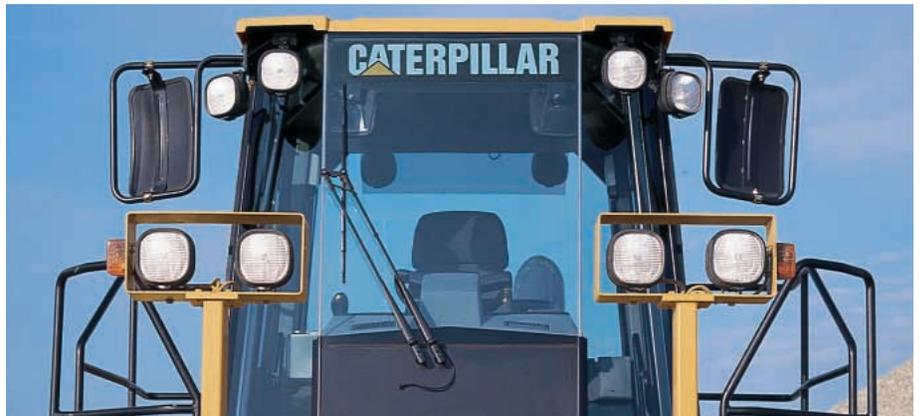
Optional Features

Available options can augment the 825H and meet your needs.



Optional Sliding Cab Window. Located in the right and left doors are optional sliding windows to provide access to outside air without opening the door.

Floodlights and Auxiliary Light Package. Located on the 825H exterior, floodlights are super damp and will last up to seven times longer than previous lights. An auxiliary light package with the cab (two facing forward and two facing rearward) is available.



Fast Fuel Fill. The fast fuel fill is used during peak periods when high production is needed and little downtime can be afforded for fueling. Fuel is pumped into the tank through a filling nozzle at a rate of 378 L (100 gal) per minute. As fuel enters the tank, air is forced out

through an open vent. When the tank is full, the vent closes and the filling nozzle automatically shuts off.

Sound Suppression. Sound suppression panels available for the engine compartment help reduce noise.

Operator Station and Controls

Ergonomically designed for operator comfort with low-effort controls increases efficiency and productivity.



Right and Left Rear-Hinged Doors.

A walk-through operator's station comes from right and left doors that can be fully opened and latched for easy entry and exit.

Sound Levels. A thick, non-metallic floor, along with outside the cab hydraulics and a separated cooling system contribute to a quiet work environment.

1 Viewing Area. The internal ROPS and bonded front glass eliminate the distracting metal frames to help increase the viewing area. The angled hood and larger windows allow the operator to see objects closer to the machine.

2 Cat Comfort Series Seat. The six-way adjustable seat provides comfort by reducing the pressure on the lower back and thighs while offering unrestricted arm and leg movement. Air suspension adds to the overall comfort level by smoothing the ride over rough terrain.

3 Blade Control and Joystick. The pod is situated at an 18 degree angle for natural wrist positioning. The controller offers a sturdy handle for multiple hand positions. The actuation button for the blade tip function is located on the joystick, providing total blade control.

Storage Space. The cab features room for a lunch cooler, insulated bottle, cup and other personal items. A coathook is also provided.

Radio Ready. A 12-volt, 15-amp converter, speakers, antenna, all wiring and brackets for a communications or entertainment radio is provided.

4 Caterpillar Monitoring System.

Gauges on the left side of the dash monitor fuel level, engine coolant, hydraulic oil and torque converter oil temperatures.

The center panel contains the tachometer/speedometer.

On the right side panel, a three-level warning system provides full-time monitoring of key functions. The system alerts the operator of immediate or impending problems with air inlet temperature, brake oil pressure, electrical system low voltage, engine oil pressure, engine overspeed, fuel filter status, parking brake status, steering oil pressure and transmission filter status.

12-Volt Power Supply. Radios, phones and laptop computers can be powered from the cab with the 12-volt, 15-amp power supply provided. A laptop computer can run Cat Electronic Technician (ET) software to access the enhanced engine, transmission and blade control system diagnostics.

Service Brakes. Standard braking is offered with the right pedal. The brakes are completely enclosed and located on the two front wheels with stopping capability provided to all four wheels through full-time, all-wheel driveline. The brakes are self-adjusting with modulated engagement.

5 Decelerator Pedal. Engine deceleration for the first 50 percent of travel is followed by the brakes engaging. This left pedal enables the operator to slow down when the throttle lock is engaged and return to throttle lock without pressing a button.

6 Throttle Lock. Similar to cruise control in an automobile, throttle lock allows the operator to preset the engine speed for operator and machine efficiency.

Air Conditioning. Blended air provides immediate temperature changes, clears windows with ease and improves operator comfort. The system is located behind the operator's seat and uses R134a refrigerant.

Ventilation Ducts and Vents.

More airflow is directed to the operator and windows, while post-mounted vents direct air to the rear windows.

Serviceability

Having easy daily maintenance is the way to get it done.



Caterpillar Monitoring System.

Diagnostics are provided that allow technicians to review a machine's operation and quickly troubleshoot problems. Operating parameters, diagnostic codes and out-of-range gauge readings are displayed through the diagnostic connector. There are also pressure taps for easy hydraulic system checks.

Service Access. Scheduled maintenance points are well within reach. A remote grease fitting is provided to lubricate the lift cylinder yoke. Removable tread plates in the platform give access to less commonly serviced components.

Daily Maintenance. Lockable ground level service doors give quick access to engine oil fill and dipstick, coolant sight gauge, rear frame grease fittings, relay panel and electrical breakers. All four maintenance-free batteries are secure in a built-in battery box located in the right rear frame. U-joints are lifetime lubricated, leaving the slip joint as the only driveline component needing grease.



Filter Access. The left platform offers access to the primary filter, while the engine oil filter is accessed from the right platform.

Air Filter Restriction Sight Gauge.

This can be viewed from the cab or platform.

Transmission Oil Fill Tube. The tube is located beneath the platform area and the transmission oil dipstick sight gauge is located next to the fill tube for easy maintenance.

500 Hour Oil Change Interval.

Uptime and production are increased by doubling the time between oil and filter changes without requiring increased oil sump capacity.

Separated Cooling System. The fan and radiator are isolated away from the engine for a quieter running machine. NGMR reduces radiator repair time. The new metal engine enclosure is completely redesigned for greater durability and to provide easy access for daily maintenance and inspection.

Hinged Hydraulic Oil Cooler. This can be swung open 30 degrees without special tools.

Hinged Air Conditioning Condenser. This swings open 30 degrees and coupled with the swing-out oil cooler, allows the cooling system to be cleaned quickly and easily.

Operator Station. In about 45 minutes, the operator station can be removed or replaced without having to disconnect hydraulic lines. Quick disconnect couplings allow fast disconnect of the air conditioning unit without releasing refrigerant.

Engine Shutdown Switch. This switch is located inside the left radiator screen door for simple access and extended switch life.



Bolt-on Bumper. The angle of departure is improved from 18 degrees to 20 degrees by shortening the overall machine length.

Battery Box. Maintenance-free batteries are located in the battery box located in the right side bumper for convenient access.

Tool Box. The tool box is located in the left side bumper to provide additional protection against harsh work environments.

Remote Transmission Pressure Taps. New to the 825H, transmission (ECPC) pressure taps are located behind the cab, under the platform for easy access.

Complete Customer Support

Caterpillar dealers are there to help you keep your machines up and running for maximum productivity.

Machine Selection. Make detailed comparisons of the machines under consideration before purchasing. Cat dealers can estimate component life, preventive maintenance cost and the true cost of lost production.

Purchase. Look past initial price. Consider the financing options available as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long run.

Customer Support Agreements. Cat dealers offer a variety of product support agreements and work with their customers to develop a plan that best meets specific needs. These plans can cover the entire machine, including attachments, to help protect the customer's investment.

Product Support. You will find nearly all parts at our dealer parts counter. Cat dealers use a worldwide computer network to find in-stock parts to minimize downtime. Save money with genuine Reman parts. You receive the same warranty and reliability as new products at cost savings of 40 to 70 percent.

Operation. Improving operating techniques can boost your profits. Your Cat dealer has training video tapes, literature, application and equipment training courses and other ideas to help you increase productivity.



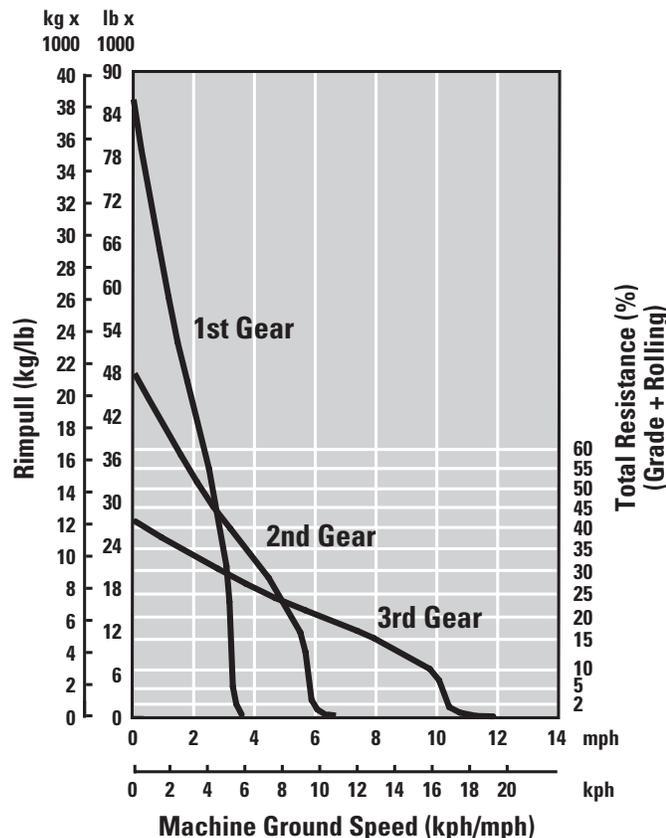
Maintenance Services. More equipment buyers are planning for effective maintenance before buying equipment. Choose from your Cat dealer's wide range of maintenance services at the time you purchase your machine. Repair option programs guarantee the cost of repairs up front. Diagnostic programs such as S-O-SSM and Coolant Sampling and Technical Analysis help you avoid unscheduled repairs.

Replacement. Repair, rebuild or replace? Your Cat dealer can help you evaluate the cost involved so you can make the right choice.

Engine

| | | |
|----------------|--------------------------------|---------------------|
| Engine Model | Cat C15 with ACERT® Technology | |
| Gross Power | 299 kW | 401 hp |
| Flywheel Power | 264 kW | 354 hp |
| ISO 9249 | 264 kW | 354 hp |
| SAE J1349 | 261 kW | 350 hp |
| EEC 80/1269 | 264 kW | 354 hp |
| Bore | 137 mm | 5.4 in |
| Stroke | 171 mm | 6.7 in |
| Displacement | 15.2 L | 928 in ³ |

- Engine ratings apply at 1,800 rpm when tested under the specific standard condition for the specified standard.
- Power ratings conditions based on standard air conditions at 25° C (77° F) and 99 kPa (29.32 in Hg) dry barometer, using 35° API gravity fuel having an LHV of 42 780 kJ/kg (18,390 Btu/lb) when used at 30° C (86° F) [reference a fuel density of 838.9 g/L (7.001 lb/gal)].
- Net power advertised is the power available (at the flywheel) when the engine is equipped with air cleaner, muffler, alternator and hydraulic fan drive.
- No derating required up to 3050 m (10,000 ft) altitude.
- Engine is U.S. EPA Tier 3/EU Stage III emissions compliant.



Transmission

| | | |
|-----------|----------|----------|
| Forward 1 | 5.3 kph | 3.3 mph |
| Forward 2 | 9.3 kph | 5.8 mph |
| Forward 3 | 15.6 kph | 9.7 mph |
| Reverse 1 | 6.1 kph | 3.8 mph |
| Reverse 2 | 10.6 kph | 6.6 mph |
| Reverse 3 | 17.2 kph | 10.7 mph |

- Travel speeds based on two percent rolling resistance and 29.5-25 L-3 tires.

Wheels

| | | |
|------------------|---------|----------|
| Drum Width | 1125 mm | 3.7 ft |
| Drum Diameter | 1299 mm | 4.3 ft |
| Outside Diameter | 1677 mm | 5.5 ft |
| Wheel Weight | 1766 kg | 3,893 lb |

Hydraulic System

| | | |
|-----------------------------|-------------------|----------------|
| Relief Valve Setting | 24 125 kPa | 3,500 psi |
| Lift Cylinder Bore × Stroke | 95.25 mm × 711 mm | 3.7 in × 28 in |

Axles

| | |
|-------|----------------|
| Front | Fixed |
| Rear | Oscillating ±9 |

Brakes

| | |
|-----------|------------------------|
| Standards | Meet SAE/ISO 3450:1996 |
|-----------|------------------------|

Cab

| | |
|-----------|-----------------------------|
| ROPS/FOPS | Meets SAE and ISO standards |
|-----------|-----------------------------|

- Integrated Rollover Protective Structure (ROPS)/Falling Object Protective Structure (FOPS) are standard in North America, Europe and Japan.
- ROPS meets SAE J1394, SAE J1040 APR88, ISO 3471-1:1986 and ISO 3471:1994.
- FOPS meets SAE J231 JAN81 and ISO 3449:1992 Level II.

Sound Performance

| | |
|-----------|------------------------------------------|
| Standards | Meets ANSI/SAE, SAE and ISO requirements |
|-----------|------------------------------------------|

- The operator sound exposure Leq (equivalent sound pressure level) measured according to the work cycle procedures specified in ANSI/SAE J1166 OCT98 is 78 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 period or in noisy environment.
- The exterior sound pressure level for the standard machine measured at a distance of 15 m (49.2 ft) according to the test procedures specified in SAE J88 JUN86, mid-gear-moving is 81 dB(A).
- The sound power level is 114 dB(A) measured according to the dynamic test procedure and conditions specified in ISO 6395:1988/AMD.1:1996 for a standard machine configuration.
- For "CE" marked configurations, the labeled sound power level is 109 dB(A) measured according to the test procedures and conditions specified in 2000/14/EC.

Blades

| | | |
|---------------------------------------|---------|----------|
| Moldboard Length | 4390 mm | 14.4 ft |
| Height, Including Cutting Edge | 1034 mm | 3.4 ft |
| Maximum Depth of Cut | 312 mm | 1.02 ft |
| Maximum Lift Above Ground | 932 mm | 3.06 ft |
| Blade Tip Angle – Total | 13.5° | |
| Blade Tip Angle – Forward | 6.9° | |
| Blade Tip Angle – Back | 6.6° | |
| Blade Tilt Angle – Right – Mechanical | 4.3° | |
| Blade Tilt Angle – Left – Mechanical | 4.3° | |
| Blade Tilt Angle – Right – Hydraulic | 5.6° | |
| Blade Tilt Angle – Left – Hydraulic | 5.6° | |
| Blade Tilt Angle – Right Full | 10° | |
| Blade Tilt Angle – Left Full | 10° | |
| Total Tilt Adjustment | 787 mm | 2.6 ft |
| Width Over End Bits | 4628 mm | 15.18 ft |

Weights

| | | |
|------------------|-----------|-----------|
| Operating Weight | 32 734 kg | 72,164 lb |
|------------------|-----------|-----------|

Service Refill Capacities

| | | |
|----------------------------------------|-------|----------|
| Fuel Tank | 603 L | 159 gal |
| Cooling System | 83 L | 21.9 gal |
| Crankcase | 34 L | 9 gal |
| Transmission | 62 L | 16.4 gal |
| Differentials and Final Drives – Front | 90 L | 23.8 gal |
| Differentials and Final Drives – Rear | 90 L | 23.8 gal |

Dimensions

| | | |
|---------------------------------------------------|---------|----------|
| Center Line of Rear Axle to Edge of Counterweight | 2687 mm | 8.8 ft |
| Width Over End Bits | 4628 mm | 15.2 ft |
| Width Over Drums | 3650 mm | 11.98 ft |
| Blade Height Straight | 1034 mm | 3.39 ft |

Operating Specifications

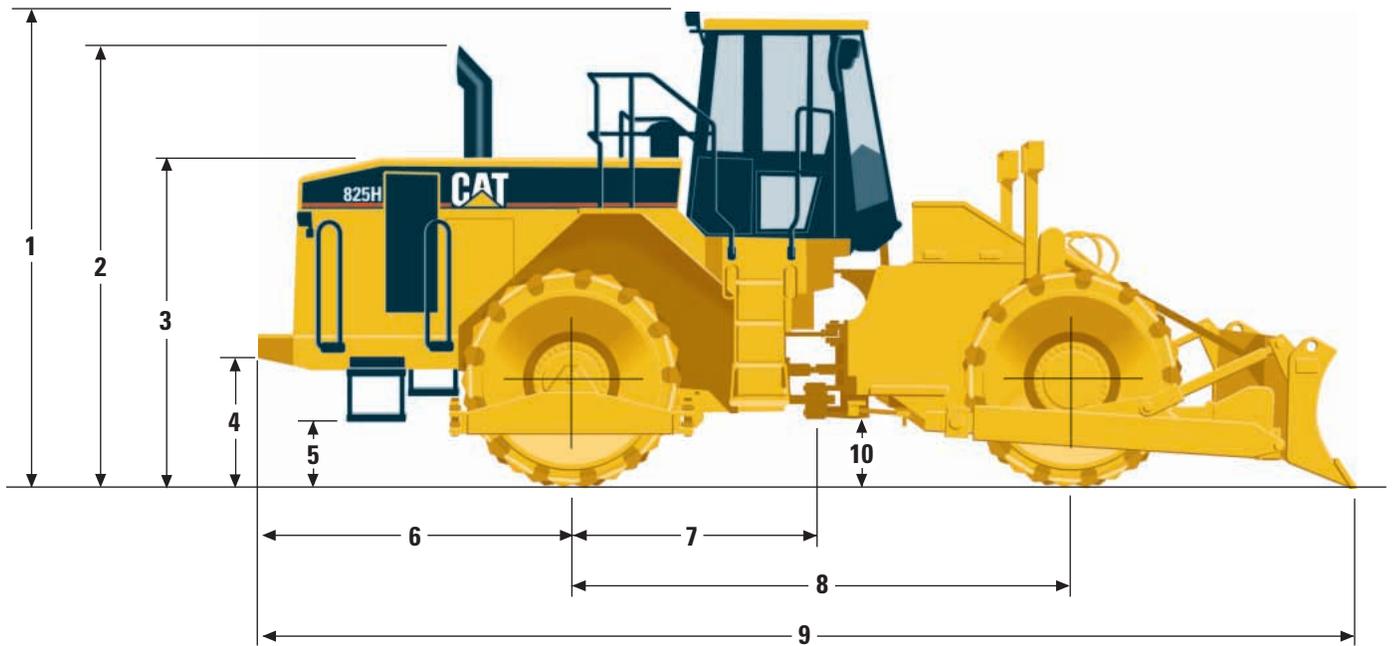
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|--------------------------------|---------|---------|
| Turning Radius Blade – Outside | 7417 mm | 24.3 ft |
| Turning Radius Blade – Inside | 3362 mm | 11 ft |

Shipping Specifications

| | | |
|--------|-----------|-----------|
| Weight | 31 200 kg | 68,796 lb |
| Height | 3755 mm | 12.32 ft |
| Width | 4390 mm | 14.4 ft |

Dimensions

All dimensions are approximate.



| | | | |
|----------|-------------------------------|---------|---------|
| 1 | Height to Top of Cab | 3755 mm | 12.3 ft |
| 2 | Height to Top of Exhaust Pipe | 3647 mm | 12 ft |
| 3 | Height to Top of Hood | 2692 mm | 8.8 ft |
| 4 | Height to Rear Bumper | 941 mm | 3.1 ft |
| 5 | Height to Bottom of Ladder | 502 mm | 1.6 ft |

| | | | |
|-----------|-------------------------------------------------|---------|---------|
| 6 | Center Line of Rear Axle to Edge of Rear Bumper | 2687 mm | 8.8 ft |
| 7 | Center Line of Rear Axle to Hitch | 1850 mm | 6.1 ft |
| 8 | Wheelbase | 3700 mm | 12.1 ft |
| 9 | Length with Blade on Ground | 8443 mm | 27.7 ft |
| 10 | Ground Clearance | 414 mm | 1.4 ft |

Standard Equipment

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

ELECTRICAL

- Alarm, back-up
- Alternator (95-amp)
- Batteries, maintenance-free (four 1,000 CCA)
- Diagnostic connector
- Electrical system (24-volt)
- Lighting system, halogen (front and rear)
- Lockable master disconnect switch
- Starter, electric (heavy-duty)
- Starting receptacle for emergency starts

OPERATOR ENVIRONMENT

- Air conditioner (contains R-134a refrigerant)
- Blade control lock system
- Cab, pressurized and sound suppressed
 - Internal four-post rollover protective structure (ROPS/FOPS), radio ready (communication/entertainment) includes antenna, speakers and converter (12-volt, 15 amp), 12-volt power port, tinted glass
- Cigar lighter (12-volt, 15-amp) and ashtray
- Coat hook
- Command Control steering
- Electro-Hydraulic tilt/tip controls
- Fingertip shift controls (steering wheel mounted)
- Gear selection display
- Heater and defroster
- Horn, electric
- Action alert system, three category
 - Instrumentation, gauges:
 - Engine coolant temperature
 - Fuel level
 - Hydraulic oil temperature
 - Speedometer/Tachometer
 - Torque converter oil temperature
- Instrumentation, warning indicators
 - Air inlet temperature
 - Brake oil pressure
 - Electrical system, low voltage
 - Engine oil pressure
 - Engine overspeed
 - Fuel filter status
 - Parking brake status
 - Steering oil pressure
 - Transmission filter status
- Light, cab (dome)
- Lunchbox and beverage holders
- Mirrors, rearview (externally mounted)
- Seat, Comfort Series (cloth), air suspension
- Seat belt, retractable, 76 mm (3 in) wide
- Transmission gear indicator
- Wet-arm wipers/washers (front and rear)
 - Intermittent front wiper

POWER TRAIN

- Brakes, full hydraulic, enclosed, wet-disc
- Cat axles, outboard final drives
- Demand fan, hydraulic
- Electronic fuel priming pump
- Engine, Cat C15 MEUI with ACERT[®] Technology, ATAAC, ADEM[™] IV controller
- Muffler, sound-suppressed
- Precleaner, engine air intake
- Radiator, Next Generation Modular Radiator (NGMR)
- Separated cooling system
- Starting aid (ether)
- Switch, transmission neutralizer lockout
- Throttle lock
- Torque converter, impeller clutch
- Transmission, planetary, autoshift (3F/3R)

OTHER STANDARD EQUIPMENT

- Caterpillar o-ring face seals couplings and XT[™] hoses
- Coolers
 - Engine oil, hydraulic oil and transmission oil
- Doors, service access (locking)
- Engine, crankcase, 500 hour interval with CH-4 oil
- Grouped Electronic Clutch Pressure Control, remote mounted pressure taps
- Hitch, drawbar with pin
- Hood, metallic with lockable service doors
- Muffler (under hood)
- Oil sampling valves
- Steering, load sensing
- Vandalism protection caplocks
- Venturi stack

BULLDOZERS

- Bulldozer is not included in standard equipment

WHEELS

- Tamping wheels
- Cleaner bars with teeth

ANTIFREEZE

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

Optional Equipment (with approximate change in operating weight)

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

| | kg | lb |
|------------------------------------------------------------------|------|--------|
| Bulldozer Arrangement | | |
| Includes hydraulic lift cylinders and lines, push arms and dozer | 5289 | 11,660 |
| Electrical | | |
| Lights, cab auxiliary | 3 | 7 |
| Fast Fuel Adapter | 4 | 9 |
| Fenders, front and rear roading | 604 | 1,333 |
| Guards, Drive Shaft | | |
| Use with counterweight | 20 | 44 |
| Use without counterweight | 58 | 127 |
| Operator Environment | | |
| Mirror, internal (panoramic) | 5 | 10 |
| Mirror, internal (rearview) | 3 | 7 |
| Radio, AM/FM, weatherband, cassette | 2 | 4 |
| Sliding cab window | 13 | 28 |
| Visor, front | 5 | 10 |
| Wiper, intermittent (rear) | 1 | 2 |

| | kg | lb |
|----------------------------------|-----|-----|
| Starting Aids | | |
| Heater, engine coolant | 2 | 4 |
| Heater, 220-volt | 1 | 3 |
| Miscellaneous Attachments | | |
| Oil change, high speed | 1 | 3 |
| Precleaner, turbine/trash | 14 | 30 |
| Product Link | 1 | 3 |
| Sound suppression | 103 | 227 |
| Special application end bits | 15 | 32 |
| Antifreeze | 0 | 0 |
| Wheels | | |
| High density compaction wheels | 86 | 189 |
| High Impact | 354 | 780 |

825H Soil Compactor

AEHQ5616-01 (6-05)
Replaces AEHQ5616

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