

160

MOTOR GRADER



Base Power (1st Gear) - Net
Operating Weight - Typically Equipped
Blade Width

165 kW (221 hp)
20 660 kg (45,547 lb)
4.2 m (14 ft)

CAT[®]

160

MOTOR GRADER

The Cat® 160/160 AWD Motor Grader delivers power, efficiency, and operating finesse to the job. Joystick controls provide ergonomic comfort for the operator. This high-performance machine minimizes emissions with the latest control technologies, without loss of productivity.



INTEGRATED TECHNOLOGIES

Using Cat Grade technologies can increase your overall productivity with better accuracy, reduced rework, and lower costs.

UP TO 10% FUEL SAVINGS

While using Eco mode without loss of productivity.

MORE TRACTION ON SLOPES

All-wheel drive (AWD) option assists with traction and maneuvering the machine, so you can work in any environment.

LATEST FEATURES



Cab Modernization

1. Continuously improved user interface allows for intuitive navigation, minimizing performance interruption with the easy-to-use 10-inch touchscreen menu.
2. Integrated high-definition (HD) rear vision camera.
3. Display-initiated Remote Flash.
4. Operator may choose to have rear vision camera on all the time or have it show in display automatically when machine is put in reverse gears.
5. Larger cross slope screen.
6. Planned Maintenance (PM) alert sync in display.
7. Identify apps quickly with a grid list view, abbreviated app names, and categorized menu options.
8. A new notification center keeps important information visible to the operator and displays messages without shrinking the camera view.
9. Color-coded notifications set critical messages apart from the rest.

Technology Options

1. Cat Grade 3D Ready

Cat Grade with 3D for motor graders is a machine integrated grade control system that helps you get to grade faster with more accuracy, efficiency, and productivity. Automatic blade control reduces operator inputs and the number of passes to get the job done to save you time and money.

2. Cross Slope Assist

Cross Slope Assist now includes Position Sensing Shift Cylinder (PSC), E-fence Blade Avoidance, and two sensors to simplify mastless upgrades. It allows the operator to manually control one end of the moldboard while the system controls the other.

3. Attachment Ready Option

Attachment Ready Option (ARO) provides sensor-ready swivel mountings for faster aftermarket work tool installation.

New High Performance Circle

The optional High Performance Circle (HPC) improves machine performance, efficiency, and uptime through increased service intervals and longer life. Meeting grade elevation tolerance in road design efficiently is important to reduce rework on the job. With the HPC, you have greater confidence in meeting grade elevation tolerance design due to reduced wear between circle and drawbar.

DESIGNED FOR OPERATORS

- Good visibility is key to safety and efficiency. Angled cab doors, tapered engine enclosure, and a sloped rear window make it easy to see the moldboard and tires, as well as behind the machine. Rear vision camera further enhances lines of sight all around the machine.
- Experience the most spacious, comfortable cab in the industry.
- Easy-to-learn joystick controls replace levers, so hand and arm movement is reduced, helping reduce operator fatigue for better productivity.
- Left joystick controls steering, articulation, return-to-center, wheel lean, gear selection, left moldboard lift cylinder, and float.
- Right joystick controls drawbar, circle, and moldboard functions, as well as electronic throttle control and manual differential lock/unlock.
- Joystick lean angle mirrors the steer tires' turning angle.
- A brake tensioning system holds the joystick in position until the operator moves it.
- Cat Motor Graders with joystick controls have industry-exclusive follow steer, which allows the front wheels to follow the joystick input.
- Infinitely variable roller switches control the rear ripper and/or front lift group (when equipped).
- Control switches are in easy reach.
- Updated seat offers softer cushions, three-position tilt, and optional heated and heated/cooled cushions.
- Control pods are electronically positioned, allowing each operator to set the ideal operating position.
- Multiple isolation mounts reduce sound and vibration for a more relaxed work environment.
- High-capacity heating, ventilation, and air conditioning (HVAC) system dehumidifies and pressurizes the cab, circulates fresh air, seals out dust, and keeps windows clear.
- An optional deluxe radio with CD features MP3 and Bluetooth® technology.
- Touchscreen display shows machine performance and diagnostic information. Located in center console, it also displays Grade Control Cross Slope readings.
- Electronic Throttle Control helps improve productivity by providing the best match of horsepower and torque for the demands of the application.
- Articulation Return-to-Center automatically returns the machine to a straight frame position from any angle with the touch of a button.
- Select fine, normal, or coarse blade lift modulation to best fit application or operator preference.



POWERFUL EFFICIENCY

- Cat C9.3 engine delivers the performance needed to maintain consistent grading speeds for maximum productivity.
- Latest engine technology optimizes productivity, fuel efficiency, reliability, life, and minimizes emissions.
- Hydraulic demand fan automatically adjusts speed according to engine cooling requirements. When cooling demand is reduced, you benefit from more power to the ground and improved fuel efficiency.
- Optional reversing fan clears debris on the go.
- Engine Idle Shutdown timer is software-enabled by your Cat dealer to shut down the engine after a set period of time to save you fuel and help reduce emissions.
- The motor graders give you efficiency and longevity in your most demanding applications.
- Standard Automatic Differential Lock/Unlock unlocks the differential during a turn and re-locks when straight for easier operation and to help protect the powertrain.
- Full Electronic Clutch Pressure Control system optimizes inching modulation for smooth shifts and directional changes, reducing stress on gears.
- Programmable Auto Shift option simplifies operation by allowing the operator to program the transmission to shift at optimal points to match your application.
- Eco mode can be engaged for up to 10% fuel savings, depending upon application.
- Power Shift Countershaft Transmission is matched to the Cat engine to maximize power to the ground.
- Wide operating gear range for maximum productivity.
- Engine Over-Speed Protection prevents downshifting until an acceptable safe travel speed has been established.
- Sealed spindle on tandem drive machines keeps front axle bearings lubricated and protected from contaminants. The Cat “live spindle” design places the larger tapered roller bearing on the outside, where the load is greater, extending bearing life. Rear tandem machines only.
- Bolt-on modular rear axle improves serviceability and contamination control with easy access to differential components.
- Oil-bath, multi-disc service brakes are hydraulically actuated for smooth, predictable braking and lower operating costs. Brakes are located at each tandem wheel and have a large total brake surface area to give you dependable stopping power and longer life.
- Emissions technology is transparent with no action required from the operator or need to stop. Regeneration runs automatically at cold start-up and, if needed, in the background while you work.
- Reaching Tier 4 Final standards only required one additional system to the proven Cat emission strategy – Selective Catalytic Reduction (SCR).
- SCR utilizes diesel exhaust fluid (DEF), conveniently filled from ground level when refueling.
- A gauge on the dash shows your fluid level.
- At shutdown, a pump automatically purges the DEF lines.
- If the engine/aftertreatment temperatures are high, a Delayed Engine Shutdown will activate automatically to cool the machine and then purge the lines.



HEAVY DUTY CONSTRUCTION



- Caterpillar designs motor grader frame and drawbar components to give you performance and durability.
- The one-piece forged steel circle stands up to high stress loads, and a sacrificial wear system helps keep your service time and costs down.
- The optional HPC improves machine performance, efficiency, and uptime availability when maintaining the jobsite.
- Articulation hitch features a large tapered roller bearing to carry loads evenly and smoothly. It is sealed to prevent contamination and a locking pin prevents articulation during service or transport.
- The drawbar, circle, and moldboard make it easy for you to keep the components tight.
- Shims and patented top-adjust wear strips are easy to add or replace, reducing downtime.
- Durable nylon composite wear inserts maximize circle torque and component life.
- Sacrificial brass wear strips between the blade mounting group and moldboard can be easily adjusted and replaced.
- Shimless Moldboard Retention System uses vertical and horizontal adjusting screws to keep moldboard wear strips aligned for reduced blade chatter and precise blade control.
- An aggressive blade angle, optimized moldboard curvature, and large throat clearance help you work more efficiently by allowing material to roll more freely along the blade.
- Heat-treated rails, hardened cutting edges and end bits, and heavy duty bolts to give you greater moldboard reliability and long service life.
- Link bar allows extreme moldboard positioning for easier bank sloping and ditch cutting/cleaning.
- Proven load-sensing hydraulic system and advanced electro-hydraulics give you superior implement control and responsive performance that makes operators' jobs easier. Continuously matching hydraulic flow/pressure to power demands creates less heat and reduces power consumption.
- Consistent, predictable movement – Proportional Priority Pressure-Compensating (PPP-C) valves have different flow rates for the head and rod ends of the cylinder, so you can count on consistent, predictable implement response.
- Balanced flow – hydraulic flow is proportioned to give you confidence that all implements will operate simultaneously without slowing the engine or speed of some implements.
- Blade can float freely under its own weight. By floating both cylinders, the blade can follow the contours of the ground. Floating only one cylinder permits the toe of the blade to follow a hard surface while the operator controls the slope with the other lift cylinder.
- Large, separate hydraulic oil supplies prevent cross-contamination and provide proper oil cooling, reducing heat build-up and extending component life.
- Cat XT™ hose allows high pressures for maximum power and reduced downtime.

TECHNOLOGY THAT GETS WORK DONE

Cat technologies offer key improvements in equipment management, productivity, and safety.

Equipment Management

Increase uptime and reduce operating costs.

Productivity

Monitor production and manage jobsite efficiency.

Safety

Enhance jobsite awareness to keep your people and equipment safe.

Featured Cat Technologies

Cat Grade 3D Ready

Cat Grade with 3D for motor graders is a machine integrated grade control system that helps you get to grade faster with more accuracy, efficiency, and productivity. Automatic blade control reduces operator inputs and the number of passes to get the job done to save you time and money. E-fence is fully calibrated from the factory.

Cross Slope Assist

Cross Slope Assist now includes Position Sensing Shift Cylinder (PSC), E-fence Blade Avoidance, and two sensors to simplify mastless upgrades. It allows the operator to manually control one end of the moldboard while the system controls the other.

Attachment Ready Option

ARO provides sensor-ready swivel mountings for faster aftermarket work tool installation.

Using the data from technology equipped machines, get more information and insight into equipment and operations.

Electronic Technician (Cat ET)

Allows service technicians access to stored diagnostic data and configure machine parameters through the Cat Data Link.

Low Battery Elevated Idle

Raises idle speed when low system voltage is detected, ensuring adequate system voltage and improving battery reliability.

Automatic Engine Deration

Gain protection for the engine by automatically lowering engine torque output and alerting the operator if critical conditions are detected.

Production Measurement System

Manage your fleet of machines while reducing fuel burn with Cat Production Measurement System option. The Efficiency Coach and Application Segmentation work together to monitor operators and machines simultaneously. Measure your jobsite's efficiency and productivity from anywhere on the website.

Product Link™ and VisionLink™

Link technologies that provide wireless capability to machines enabling two-way transfer of information collected by on-board sensors, control modules, and other Cat technologies using off-board apps, such as Cat VisionLink™ software.

Cat Product Link™/VisionLink is deeply integrated, helping take guesswork out of equipment management. Easy access to timely information like machine location, hours, fuel usage, idle time, and event codes via the online VisionLink user interface helps effectively manage fleet and lower operating costs.

Grade technologies combine digital design data, in-cab guidance, and automatic blade controls to enhance grading accuracy, reduce rework, and lower costs related to production earthmoving and rough, fine, and finish grade applications.



SAFETY FIRST

- Operator presence monitor keeps the parking brake engaged and hydraulic implements disabled until the operator is seated and the machine is ready for operation.
- Speed sensitive steering lessens steering sensitivity as ground speed increases for greater operator confidence and control.
- Secondary steering system's electric hydraulic pump automatically engages in case of a drop in steering pressure to ensure operator can steer the machine to a stop.
- Hydraulic lockout disables all implement functions while still providing machine steering control. Especially useful while roading.
- Brakes are located at each tandem wheel to eliminate braking loads on the powertrain. Redundant brake systems utilize accumulators to enable stopping in case of machine failure.
- Perforated steel tandem walkways and convenient grab rails provide a sturdy platform when moving on, off, and around the machine.
- Circle Drive Slip Clutch protects the drawbar, circle, and moldboard from shock loads if the blade encounters an immovable object and also reduces the possibility of abrupt directional changes in poor traction conditions.
- Blade Lift Accumulators help absorb impact loads by allowing vertical blade travel. This optional feature reduces wear and impact loading for enhanced operator safety.
- Safety Features
 1. Optional rearview camera with in-cab monitor integrated into main display
 2. New, optional seat belt indicator light reminds operator to fasten safety belt
 3. Grouped, ground level service points
 4. Laminated front window glass
 5. Optional LED lighting
 6. Ground-level electrical disconnect switch
 7. Ground-level engine shutoff switch
 8. Anti-glare paint eases night operation
 9. Optional front and rear fenders



TOP-TIER SERVICE AND SUPPORT

- Cat motor graders are designed to help you increase uptime and reduce costs.
- Grouped service points and extended service intervals save maintenance time.
- New, optional LED lights in the left-hand compartments make it more convenient to service the machine in low light.
- Cat dealers are second to none. From machine selection and purchase to maintenance support, operator training, and rebuilds, Cat dealers have the experience and capabilities to help keep you up and running at peak performance.



SUSTAINABILITY



- The Cat C9.3 engine meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels** up to: 20% biodiesel FAME (fatty acid methyl ester)* or 100% renewable diesel, HVO (hydrotreated vegetable oil), and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details.
- Engine Idle Shutdown timer reduces fuel burn, greenhouse gas emissions, and unnecessary idle time by shutting down the machine after a pre-set idling period.
- Cat Grade helps reduce fuel burn and greenhouse gas emissions by enabling you to achieve grade faster and more accurately by automating blade actions.
- Extended maintenance intervals not only reduce downtime but decrease the amount of fluid and filters that are replaced over the life of the machine.
- VisionLink displays the CO₂ emissions for monitored assets, calculated by fuel type for the Runtime Fuel Burned each day in a selected date range.
- Don’t waste fuel idling. Cat VisionLink online fleet monitoring helps you manage idle time and reduce fuel burn and greenhouse gas emissions.
- Cat Reman parts are a sustainable choice. New Cat parts are designed with the potential to have more than one life, so Cat Reman parts are truly remanufactured – not just repaired, rebuilt, or reconditioned. Because the process ensures the latest design changes are incorporated into Cat Reman parts, you get like new quality and outstanding performance at lower cost.

**Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).*

***Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.*

TECHNICAL SPECIFICATIONS

Engine		
Engine Model	Cat® C9.3	
Emissions	U.S. EPA Tier 4 Final/EU Stage V	
Bore	115 mm	4.5 in
Displacement	9.3 l	567.5 in³
Stroke	149 mm	5.9 in
Number of Cylinders	6	
Torque Rise	39%	
Maximum Torque - VHP Plus	1355 N·m	1,000 lb/ft
Derating Altitude	3050 m	10,000 ft
Weights		
Operating Weight - Typically Equipped	20 660 kg	45,547 lb
Moldboard		
Blade Width	4.2 m	14 ft
Cutting Edge Thickness	16 mm	0.6 in
Cutting Edge Width	152 mm	6 in
End Bit - Thickness	16 mm	0.6 in
End Bit - Width	152 mm	6 in
Moldboard - Blade Width	4.2 m	14 ft
Moldboard - Height	610 mm	24 in
Moldboard - Thickness	22 mm	0.87 in
Throat Clearance	166 mm	6.5 in
Blade Down Pressure - Base GVW	7713 kg	17,004 lb
Blade Down Pressure - Maximum GVW	13 294 kg	29,308 lb
Blade Pull - Base GVW	11 762 kg	25,931 lb
Blade Pull - Maximum GVW	15 541 kg	34,262 lb
Arc Radius	413 mm	16.3 in
Dimensions		
Height - Top of Cab	3308 mm	130 in
Length - Counterweight to Ripper	10 136 mm	399 in
Ground Clearance - Rear Axle	339 mm	13.3 in
Blade Range		
Maximum Lift Above Ground	452 mm	17.8 in
Maximum Depth of Cut	750 mm	29.5 in
Maximum Blade Position Angle	90	
Maximum Shoulder Reach Outside of Tires - Left	2090 mm	82.3 in
Maximum Shoulder Reach Outside of Tires - Right	2278 mm	89.7 in
Moldboard Sideshift - Left	510 mm	20.1 in
Moldboard Sideshift - Right	660 mm	26 in
Blade Tip Range - Forward	40	
Blade Tip Range - Backward	5	
Circle Centershift - Left	695 mm	27.4 in
Circle Centershift - Right	728 mm	28.7 in

Frame		
Front Frame Structure - Height	321 mm	12.6 in
Front Frame Structure - Width	305 mm	12 in
Front Axle - Height to Center	596 mm	23.5 in
Front Axle - Total Oscillation per Side	32	
Front Axle - Wheel Lean - Left/Right	18	
Front-Top/Bottom Plate - Thickness	22 mm	0.87 in
Front-Top/Bottom Plate - Width	305 mm	12 in
Drawbar - Height	152 mm	6 in
Drawbar - Thickness	12.7 mm	0.5 in
Drawbar - Width	76.2 mm	3 in
Circle - Blade Beam Thickness	40 mm	1.6 in
Circle - Diameter	1553 mm	61.1 in
Circle - Height	160 mm	6.3 in

Air Conditioning System	
Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. - If equipped with R134a (Global Warming Potential = 1430), the system contains 1.9 kg (4.2 lb) of refrigerant which has a CO ₂ equivalent of 2.717 metric tonnes (2.994 tons).

Powertrain		
Transmission	APECS, Direct Drive, Powershift	
Forward/Reverse Gears	8 Forward/6 Reverse	
Brakes - Service - Surface Area	23 000 cm²	3,565 in²
Brakes - Service	Multiple Oil Disc	
Brakes - Parking	Multiple Oil Disc	
Brakes - Secondary	Dual Circuit Control	

Service Refill		
Fuel Capacity	394 l	104 gal (US)
Diesel Exhaust Fluid	22 l	5.8 gal (US)
Circle Drive Housing	7 l	1.8 gal (US)
Cooling System	57 l	15 gal (US)
Hydraulic System - Total	100 l	26.4 gal (US)
Hydraulic System - Tank	64 l	16.9 gal (US)
Transmission - Differential - Final Drives	70 l	18.5 gal (US)
Tandem Housing - Each	87 l	22.9 gal (US)
Engine Oil	30 l	7.9 gal (US)
Front Wheel Spindle Bearing Housing	0.5 l	0.13 gal (US)

Scarifier		
Mid, V-Type - Working Width	1184 mm	46.6 in
Mid, V-Type - Scarifier Shank Holders	11	
Mid, V-Type - Scarifier Shank Holder Spacing	116 mm	4.6 in
Mid, V-Type - Scarifying Depth, Maximum	292 mm	11.5 in
Rear - Scarifier Shank Holders	9	
Rear - Scarifier Shank Holder Spacing	267 mm	10.5 in
Rear - Scarifying Depth, Maximum	426 mm	16.8 in
Rear - Working Width	2133 mm	84 in
Front, V-Type - Working Width	1205 mm	47.4 in
Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holders	5 or 11	
Front, V-Type, 5 or 11 Tooth - Scarifier Shank Holder Spacing	116 mm	4.6 in
Front, V-Type, 5 or 11 Tooth - Scarifying Depth, Maximum	467 mm	18.4 in
Front, V-Type, 5 or 11 Tooth - Working Width	1031 mm	40.6 in
Ripper		
Ripping Depth - Maximum	426 mm	16.8 in
Ripper Shank Holders	5	
Ripper Shank Holder Spacing	533 mm	21 in
Machine Length Increase, Beam Raised	1031 mm	40.6 in
Penetration Force	9440 kg	20,812 lb
Pry-Out Force	12 924 kg	28,493 lb
Operating Specifications		
Top Speed - Forward	47.4 km/h	29.5 mile/h
Top Speed - Reverse	37.4 km/h	23.3 mile/h
Articulation Angle - Left/Right	20°	
Steering Range - Left/Right	50°	
Turning Radius - Outside Front Tires	7.8 m	25.59 ft

STANDARD & OPTIONAL EQUIPMENT

NOTE: Standard and optional equipment may vary. Consult your Cat® dealer for details.

	Standard	Optional
POWERTRAIN		
Air cleaner, dual stage, dry type, diesel, with automatic engine derate and automatic dust ejector, service indicator through Cat Messenger	✓	
Air-to-air after cooler (ATAAC)	✓	
Belt, serpentine, automatic tensioner	✓	
Brakes, oil disc, four-wheel, hydraulic	✓	
Demand fan, hydraulic, swing-out	✓	
Diesel exhaust fluid tank, 22.0 L (5.8 gal) ground level access, and sediment drain	✓	
Differential lock/unlock, automatic	✓	
Drain, engine oil, ecology	✓	
Eco mode	✓	
Electronic overspeed protection	✓	
Engine, C9.3 U.S. EPA Tier 4 Final/EU Stage V emission standards	✓	
Fuel tank, 394 L (104 gal), ground level access and sediment drain	✓	
Parking brake - multi-disc, sealed, oil-cooled	✓	
Priming pump, fuel	✓	
Rear axle, modular	✓	
Sediment drain, fuel tank	✓	
Tandem drive	✓	
Transmission, 8F/6R, powershift, direct drive, Advanced Productivity Electronic Control Strategy (APECS)	✓	
All-wheel drive		✓
Precleaner, snow		✓
Starter, extreme duty, 1,000 amps		✓
Transmission, autoshift		✓
FLUIDS		
Antifreeze	✓	
Extended lifecoolant to -35° C (-30° F)	✓	

	Standard	Optional
OPERATOR ENVIRONMENT		
Accelerator	✓	
Air conditioning with heater	✓	
Arm and wrist rest, electronically adjustable	✓	
Articulation, automatic return-to-center	✓	
Cat Messenger operator information system	✓	
Centershift pin indicator	✓	
Coat hook	✓	
Cup holder	✓	
Display, digital speed and gear	✓	
Doors, left and right side with wiper	✓	
Gauge, machine level	✓	
Gauge cluster (analog) - fuel, articulation, engine coolant temp, engine RPM, hydraulic oil temp, regen, DEF	✓	
Hour meter, digital	✓	
Joystick hydraulic controls right/left blade lift with float position, circle drive, blade sideshift and tip, centershift, front wheel lean, articulation and power steering	✓	
Joystick, adjustable armrests	✓	
Joystick gear selection	✓	
Joystick hydraulic power steering	✓	
Ladders, cab, left and right side	✓	
Lights, night time cab	✓	
Mirror, inside rearview, wide angle	✓	
Power port, 12V	✓	
Radio ready, entertainment	✓	
Rollover protective structure (ROPS) cab, sound suppressed 70 dB(A)	✓	
Seat, cloth-covered, comfort suspension	✓	
Seat belt, retractable 76 mm (3 in)	✓	
Storage area for cooler/lunchbox	✓	
Throttle control, electronic	✓	
Windows, laminated glass: - fixed front with intermittent wiper - door with intermittent wipers (3)	✓	
Windows, tempered - left and right side wipers, rear and intermittent wiper	✓	
Mirrors, outside heated 24V		✓
Mirrors, outside mounted		✓
Comfort plus arrangement		✓
Comfort premium arrangement		✓

TIRES, RIMS, WHEELS

Partial allowance for tires on 254 - 607 mm (10 - 24 in) multi-piece rims is included in the base machine price and weight	✓
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	Standard	Optional
GUARDS		
Articulation guard		✓
Fenders, front		✓
Fenders, rear		✓
Front axle guard		✓
Sound suppression (bottom)		✓
Sound suppression (enclosure)		✓
Transmission		✓
ELECTRICAL		
Alarm, back up	✓	
Alternator, sealed 150 ampere	✓	
Batteries, maintenance free, heavy duty, 1125 CCA	✓	
Breaker panel, ground accessible	✓	
Cab harness and electrical hydraulic valves	✓	
Electrical system, 24V	✓	
Grade Control Ready, cab harness, software, electrical hydraulic valves, bosses and brackets	✓	
Lights, roof-mounted roading, reversing, LED stop, and tail	✓	
Product Link™	✓	
Starter, electric	✓	
Alternator, 280 ampere		✓
Batteries, extreme duty, 1,400 CCA		✓
Lights, high headlights		✓
Lights, low headlights		✓
Lights, working lights, basic		✓
Lights, working lights, plus, LED		✓
Lights warning, beacon or strobe		✓
Lights, mounting for warning light		✓
ATTACHMENTS		
Blade extension, left, 610 mm (2 ft)		✓
Blade extension, right hand, 610 mm (2 ft)		✓
Counterweight		✓
Cutting edges, curved		✓
Endbits, overlay		✓
Front lift group, mounting		✓
Front lift group, mechanical		✓
Grader bit, narrow and super penetration		✓
Mid-mount scarifier, package		✓
Moldboard: 4267 mm x 610 mm x 22 mm (14 ft x 24 in x 7/8 in)		✓
Moldboard: 4267 mm x 686 mm x 25 mm (14 ft x 27 in x 1 in)		✓
Moldboard: 4877 mm x 686 mm x 25 mm (16 ft x 27 in x 1 in)		✓
Push plate		✓
Ripper, rear		✓
Ripper tooth		✓
Scarifier, front		✓
Snow arrangement		✓
Snow wing ready package		✓
Tow hitch		✓

	Standard	Optional
OTHER		
Accumulators, brake, dual certified	✓	
Anti-glare paint	✓	
Bumper, rear, integrated with hitch	✓	
CD ROM parts book	✓	
Clutch, circle drive slip	✓	
Cutting edges: - 152 16 mm (6 5/8 in) - curved DH-2 steel - 19 mm (3/4 in) mounting bolts	✓	
Doors (3), engine compartment, locking	✓	
Drawbar, 6 shoes, replaceable wear strips	✓	
Electrical hydraulic valves, hydraulic lines for base 8 functions	✓	
Endbits, - 16 mm (5/8 in) DH-2 steel - 19 mm (3/4 in) mounting bolts	✓	
Fluid check, ground level	✓	
Frame, articulated, with safety lock	✓	
Engine shutdown, ground level	✓	
Hammer (emergency exit)	✓	
Horn, electric	✓	
Hydraulic lines for base functions	✓	
Lockout, hydraulic implement (for roading and servicing)	✓	
Moldboard	✓	
Mounting, cab roof accessories	✓	
Pump, hydraulic, high capacity	✓	
Radiator, cleanout access (both sides with swing doors)	✓	
Secondary steering	✓	
Serviceability, left side	✓	
S-O-S SM ports: engine, hydraulic, transmission, coolant, fuel	✓	
Tandem walkway/guards	✓	
Tool box	✓	
Attachment Ready Option (ARO)		✓
Integrated cross slope		✓
Accumulators, blade lift		✓
Camera, rearview		✓
Drain, ecology, engine Wiggins		✓
Heater, engine coolant: 120V		✓
Heater, engine coolant: 240V		✓
Hydraulic arrangements with one or more additional hydraulic valves available for rear ripper, dozer, snow plow and snow wing		✓
Snow wing mounting, frame ready		✓
Starting aid, ether		✓
Reversing fan, automatic or manual		✓
Cat Grade with 3D		✓

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

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Build Number: 15B
(Aus-NZ, N Am, Chile, Colombia)

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