

# R1300G II

Underground  
Mining Loader



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## Engine

Engine Model	Cat® C6.6 ACERT™	
Gross Power – SAE J1995	136 kW	182 hp

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## Operating Specifications

Nominal Payload Capacity	6800 kg	14,991 lb
Gross Machine Operating Weight	27 675 kg	61,013 lb

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## Bucket Capacities

Bucket Capacity – Std.	3.1 m <sup>3</sup>	4.1 yd <sup>3</sup>
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# R1300G II Underground Mining Loader

*Engineered for performance. Designed for comfort. Built to last.*

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## Power Train – Engine

The Cat® C6.6 engine with ACERT™ Technology delivers the power and reliability necessary to perform in the most demanding underground mining applications. Designed for efficient operation, excellent fuel efficiency, lower emissions, reduced engine noise and lower operating costs. **pg. 4**

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## Power Train – Transmission

The Cat four-speed planetary power shift transmission features heavy duty components to handle the toughest jobs. Electronic controls allow smooth shifting for greater productivity, durability and longer component life. **pg. 5**

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## Hydraulics

Powerful Cat hydraulics deliver excellent digging and lifting forces to move materials quickly. High volume pumps and large cylinders provide quick, powerful response and fast cycle times. Pilot operated joysticks provide low effort operation and smooth control. **pg. 6**

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## Serviceability

The R1300G II is designed for quick and easy servicing. Simplified service and maintenance features reduce downtime, allowing the machine to spend less time being serviced and more time being productive. **pg. 11**

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## Customer Support

Caterpillar® dealers provide unmatched product support, anywhere in the world. With industry-best parts availability and a wide range of maintenance and service options, Cat dealers have what it takes to keep your loader working in the mines. **pg. 12**

## ***Performance and agility.***

*Compact design, high engine power, higher torque rise, stronger components and excellent maneuverability ensures the R1300G II is a solid and agile performer.*

## ***Unmatched operator comfort.***

*World class operator station fitted with revolutionary electronics and hydraulic controls for low effort operation and increased productivity.*



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## Structures

Structural components are the backbone of the R1300G II durability. The heavy duty loader frame is designed and built to absorb twisting, impact and high loading forces for maximum durability and reliability. Z-bar linkage generates powerful breakout forces and optimum loading angle. **pg. 7**

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## Operator Station

The ergonomic cab is designed for operator comfort and ease of operation to allow the operator to focus on production. Controls and gauges are positioned within easy reach for optimum efficiency and superior control all shift long. **pg. 8**

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## Buckets

Cat underground loader buckets are designed for optimal loadability and structural durability in tough mining conditions. A ranges of sizes and configurations are available to match material conditions and maximize productivity. **pg. 10**

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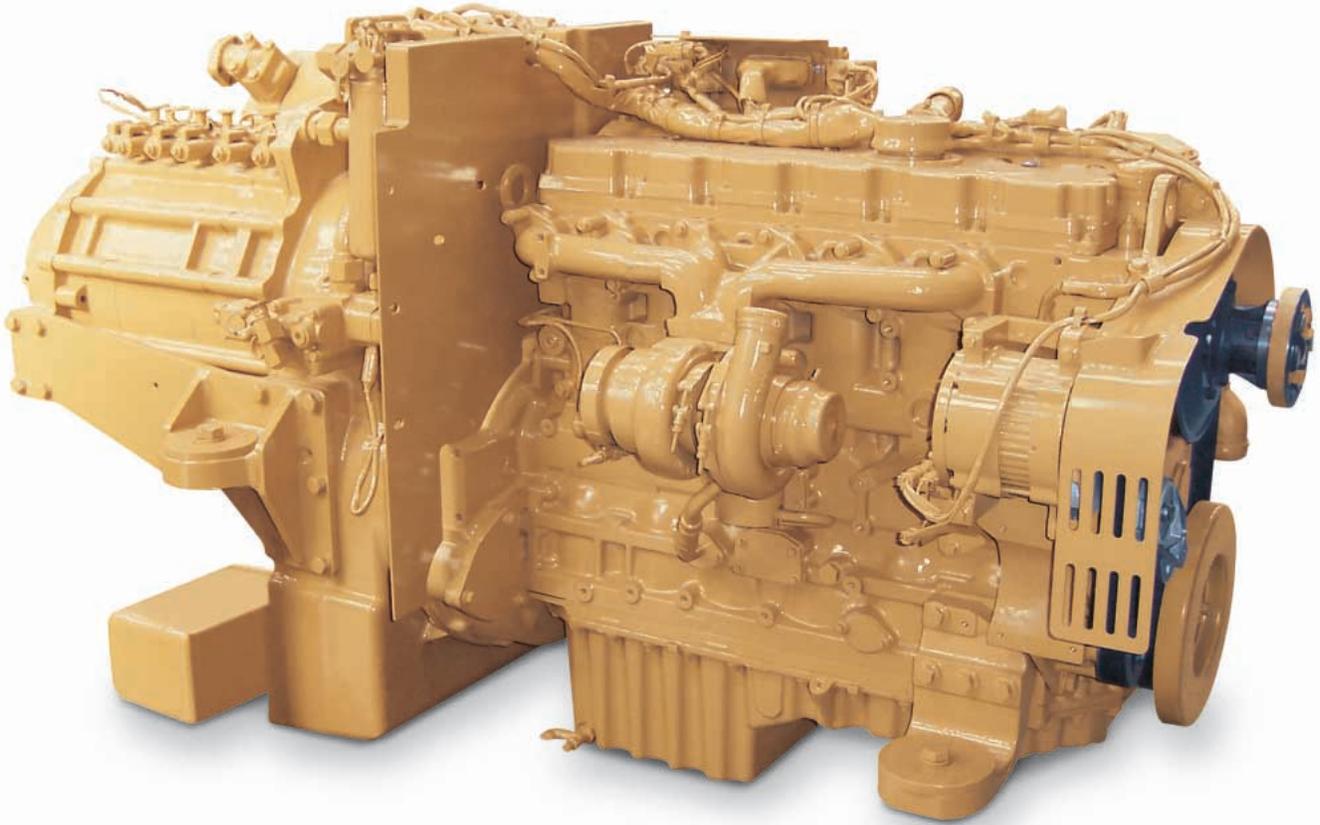
## Safety

Caterpillar sets the standard when it comes to safety in the design and manufacturing of heavy equipment for the mining industry. Safety is not an after thought at Caterpillar, but an integral part of all machine and systems designs. **pg. 13**



## Power Train – Engine

*The Cat C6.6 diesel engine delivers the power and reliability necessary to perform in the most demanding underground mining applications.*



**Engine.** The six cylinder, four-stroke, turbocharged Cat C6.6 diesel engine is precisely engineered and stringently tested to maintain a tradition of quality. It does it all with profit-boosting performance, heavy duty durability and reliability, built-in serviceability, excellent fuel economy and low emission levels.

**High Torque Rise.** Provides unequalled lugging force while digging, tramming and traversing steep grades. Torque rise effectively matches transmission shift points for maximum efficiency and fast cycle times.

**Radiator.** Modular radiator with swing-out grill provides easy access for cleaning or repair. Built in sight gauge allows for quick, safe coolant level checks.

**Pistons.** Oil cooled pistons increase heat dissipation and promote longer piston life.

**ADEM™ IV System.** Controls the fuel injector solenoids and monitors fuel injection. This system provides automatic altitude compensation, air filter restriction indication and it will not allow the engine to fire until it has oil pressure, acting as cold start protection and a form of pre-lube.

**Turbocharged and Aftercooled.** Air-to-air aftercooling provides improved fuel economy by packing cooler, denser air into cylinders for more complete combustion of fuel and lower emissions. The turbocharger enhances performance and efficiency.

**Fuel Injection.** The high pressure direct injection fuel system provides excellent fuel atomization for unmatched fuel economy, reliability and durability.

**Crankshaft.** The crankshaft is forged and induction hardened for long-term durability.

## Power Train – Transmission

*Designed for durability, the Cat power shift transmission delivers smooth, responsive performance and reliability in tough conditions.*

**Power Shift Transmission.** The Cat four-speed planetary power shift transmission is matched with the Cat C6.6 diesel engine to deliver constant power over a wide range of operating speeds.

- Electronic controls allow smooth, on-the-go shifting for greater productivity.
- Hydraulic modulation cushions transmission shifts and reduces stress on components.
- Pump drive and output transfer use high contact gear ratios to reduce sound levels.
- Perimeter mounted, large diameter clutch packs control inertia for smooth shifting and increased component life.

**Robust Design.** Designed for rugged underground mining conditions, the proven planetary power shift transmission is built for long life between overhauls.

**Electronic Controls.** Electronic controls allow smooth, on-the-go shifting for greater productivity.

**Torque Converter.** High capacity torque converter delivers more power to the wheels for superior power train efficiency.

**Electronic Autoshift Transmission.** The electronic auto shift transmission increases operator efficiencies and optimizes machine performance. The operator can choose between manual or auto shift modes.

**Transmission Neutralizer.** Using the left brake pedal, the operator can engage the service brakes and neutralize the transmission, maintaining high engine rpm for full hydraulic flow, enhancing digging and loading functions.



**Final Drives.** Cat final drives work as a system with the planetary power shift transmission to deliver maximum power to the ground. Built to withstand the forces of high torque and impact loads, double reduction final drives provide high torque multiplication to further reduce drive train stress.

**Axles.** Heavy duty axles are built rugged for long-life in the most demanding environments.

**Oscillating Rear Axle.** Oscillating rear axle ensures four-wheel ground contact for maximum traction and stability at all times.

**Differential.** No spin rear differential reduces tire wear and maximizes traction in uneven terrain.

**Duo-Cone™ Seals.** Duo-Cone™ seals between the axle spindle and housings keep lubrication in and contaminants out.

**Brakes.** Fully enclosed oil immersed disc brakes incorporate independent service and parking brake pistons. Hydraulic actuated independent circuits provide improved performance and reliability.

**Cat Electronic Technician.** Cat ET service tool provides service technicians with easy access to stored diagnostic data through Cat Data Link to simplify problem diagnosis and increase availability.

## Hydraulics

*Cat hydraulics deliver the power and control to keep material moving.*



**Hydraulic System.** Powerful Cat hydraulics deliver exceptional digging and lifting forces and fast cycle times.

**Lift and Tilt System.** High hydraulic flow rates provide fast hydraulic cylinder response and powerful lift forces. Large-bore tilt and lift cylinders deliver exceptional strength, performance and durability.

**Pilot Controls.** Low effort, pilot operated joystick implement control with simultaneous lift and tilt functions optimizes operating efficiency. Optional circuit controls enable ejector bucket to be controlled from a switch on the joystick.

**Steering System.** STIC™ control system integrates steering and transmission functions into a single controller for maximum responsiveness and smooth control.

**Optional Ride Control.** The optional ride control system uses a nitrogen filled oil accumulator in the hydraulic lift circuit to act as a shock absorber for the bucket and lift arms. The lift arm and bucket response to movement is dampened over rough ground, reducing fore and aft pitch, improving cycle times and load retention. A smoother, more comfortable ride gives operators the confidence to travel at speeds above 5 km/h (3 mph) during load and carry operations.

**Cat Hydraulic Hose.** Field proven Cat high pressure XT™ hydraulic hoses are exceptionally strong and flexible for maximum system reliability and long life in the most demanding conditions. Reusable couplings with O-ring face seals provide superior, leak free performance and prolong hose assembly life.

## Structures

*Designed for maximum strength and durability in the harshest operating environments.*

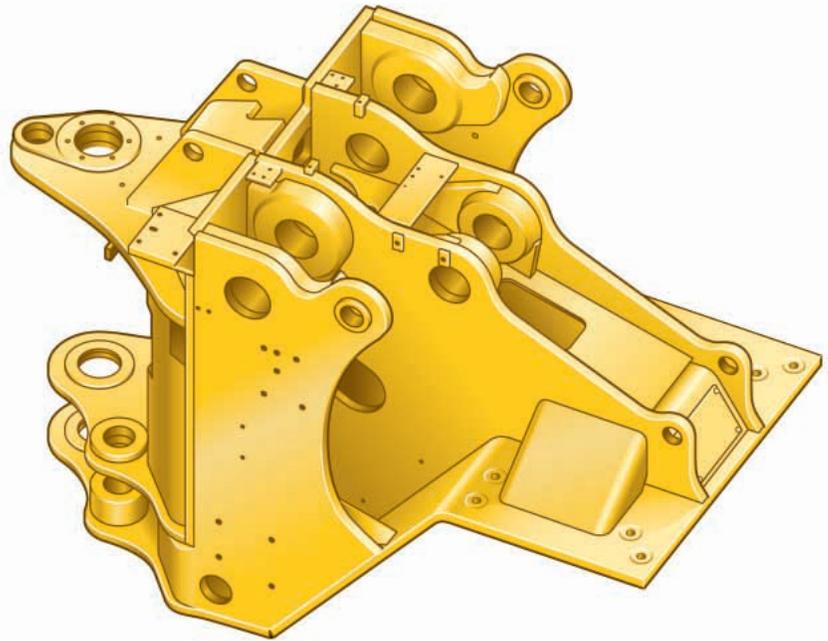
**Frame Design.** The frame features robust structural components for outstanding durability in the toughest loading conditions. Caterpillar integrates advanced processes in the design and manufacture of Cat frames and structures. Computer modeling and Finite Element Analysis (FEA) are used extensively throughout design.

**Steel Frame.** Strong steel frame structures are designed to resist twisting forces, torsional shock and stresses generated during the loading cycle while protecting drive line and hydraulic system components.

**Lift Arms.** Solid steel lift arms absorb high stresses generated during loading without sacrificing strength or durability. The linkage design offers excellent reach and dump clearance for better productivity. Lift arm support pins prevent lowering the lift arms during service and maintenance.

**Loader Tower.** The four plate loader tower provides a solid mount for lift arms, lift cylinders and Z-bar tilt linkage. The loader frame is designed and built to absorb twisting, impact and high loading forces.

**Cast-Steel Cross Tube.** The cast steel cross tube provides excellent resistance to torsion and impact loads, keeping pin bores well aligned and extending component service life.



**Z-Bar Loader Linkage.** Proven Z-Bar loader linkage geometry generates powerful breakout force and an increased rack back angle for better bucket loading and material retention.

**Sealed Pins.** Sealed colleted pins are fitted to all bucket and lift arm hinge points for longer pin and bushing life. This reduces maintenance costs and extends service intervals. The sealed joints retain lubrication and prevent contaminant entry.

**Hitch.** Spread hitch design widens the distance between upper and lower hitch plates to distribute forces and increase bearing life. Thicker hitch plates reduce deflection. The wide opening provides easy service access. Upper and lower hitch pins pivot on roller bearings to distribute horizontal and vertical loads over a greater surface area. Shim adjusted preload reduces maintenance time. An on-board steering frame lock pin is fitted to prevent articulation during maintenance and service.

## Operator Station

*Setting a new industry standard for comfort and efficiency.*



**Ergonomic Layout.** The R1300G II operator station is ergonomically designed for total machine control in a comfortable, productive and safe environment. All controls, levers switches and gauges are positioned to maximize productivity and minimize operator fatigue.

**Pilot Controls.** Low-effort pilot operated joystick controls integrate steering, transmission and implement functions for smoother, faster cycles with less operator fatigue.

**Electronic Autoshift.** Electronic autoshift allows the operator to choose automatic or manual shifting. In auto mode, the operator uses a dash mounted switch to select the highest gear they wish the machine to shift to. In this mode, the transmission shifts at factory preset shift points so that each shift occurs at optimum torque and ground speed for maximum machine performance.

**Dual-Pedal Braking.** Dual brake pedals function as a brake and a transmission neutralizer so the operator can maintain high engine rpm for full hydraulic flow and fast cycle times.

**Protective Structure.** The operator station has integrated into its construction a ROPS – Roll-over protective structures and FOPS – Falling object protective structures. This structure is resiliently mounted to the frame, reducing vibration to the operator for a more comfortable ride.

**Suspension Seat.** Suspension seat provides optimal driving position and enhances operator comfort, all shift long.

**STIC™ Steering Control.** STIC™ combines directional selection, gear selection and steering into a single lever for maximum responsiveness. Simple side-to-side motion turns machine right or left. Transmission shifting (forward/neutral/reverse) is controlled using a three position rocker switch. The thumb operated upshift and downshift buttons control manual shifting.

**Optional Enclosed Cab.** Optional sound-suppressed ROPS cab provides a quiet, secure working environment. Large window openings offer excellent visibility in all directions. Enclosed design provides fresh, pressurized, temperature-controlled air circulation with air-conditioned comfort and a more comfortable working environment. The air conditioning system uses environmentally friendly R134a refrigerant.

**Optional Ride Control.** The system uses a nitrogen filled oil accumulator in the hydraulic lift circuit to act as a shock absorber for the bucket and lift arms. The lift arm and bucket response to movement is dampened over rough ground, reducing fore and aft pitch, improving cycle times and load retention. A smoother, more comfortable ride gives operators the confidence to travel at higher speeds during load and carry applications.

**Monitoring System.** Caterpillar® Electronic Monitoring System (CEMS) continuously provides critical machine data to keep the machine performing at top production levels. A warning system alerts the operator of immediate or impending problems with engine oil pressure, parking brake engagement, brake oil pressure, electrical system, low fuel, hydraulic oil temperature, coolant level/temperature, transmission oil temperature and impending brake application.

• **Digital Display.** “Normal” mode displays choice of hour meter, odometer or digital tachometer. “Service” mode displays operating parameters, diagnostic codes and out-of-range gauge readings.



• **Gauge Cluster.** Maintains a constant display of vital machine functions, including: engine coolant temperature, transmission oil temperature, hydraulic oil temperature, and fuel level.



• **Speedometer/Tachometer Module.** Monitors three systems: engine speed, ground speed and gear indicator.

## Buckets

*Cat buckets provide the flexibility to match the machine to the material and conditions.*



**Buckets.** Aggressive Cat bucket designs deliver unmatched productivity in the most demanding applications. Underground mining buckets are designed for optimal loadability and structural reliability to help lower your cost-per-ton.

**Bucket Selection.** Cat underground loader buckets are available in two styles to meet a range of loading, hauling and dumping conditions.

- Dump buckets
- Ejector buckets

**Bucket Capacities.** Buckets are available in a range of sizes and capacities to suit most material types and densities.

**Optional Wear Packages.** Weld-on wear plates in high wear areas are standard. Additional wear packages, including sacrificial wear strips and Cat heel shrouds protect the edges from damage and reduce the need for costly bucket rebuilds.

**Optional Cutting Edges.** Cat half arrow and cast half arrow cutting edges extend bucket life in high wear applications.

## Serviceability

*Less time spent on maintenance means more time being productive.*

**Service Access.** Easy access to daily service points simplifies servicing and reduces time spent on regular maintenance procedures.

**Ground-Level Access.** Allows convenient servicing to all tanks, filters, lubrication points and compartment drains.

**Air Filters.** Radial seal air filters are easy to change, reducing time required for air filter maintenance.

**Sight Gauges.** Fluid level checks are made easier with sight gauges.

**Diagnostics.** Cat Electronic Technician (Cat ET) service tool enables quick electronic diagnosis of machine performance and key diagnostic data for effective maintenance and repairs.

**Sealed Electrical Connectors.** Electrical connectors are sealed to lock out dust and moisture.



## Customer Support

*Caterpillar dealers have what it takes to keep your underground mining loader productive.*



### **Commitment Makes the Difference.**

Cat dealers offer a wide range of solutions, services and products that help you lower costs, enhance productivity and manage your operation more efficiently. Support goes far beyond parts and service. Support goes far beyond parts and service. From the time you select a piece of Cat equipment until the day you rebuild, trade or sell it, the support you get from your Cat dealer makes the difference that counts.

**Dealer Capability.** Cat dealers provide the level of support you need, on a global scale. Dealer expert technicians have the knowledge, experience, training and tooling necessary to handle your repair and maintenance needs, when and where you need them.

**Product Support.** Cat dealers believe superior products deserve superior support. When Cat products reach the field, they are supported by a worldwide network of parts distribution facilities, dealer service centers, and technical training facilities to keep your equipment up and running. Cat customers rely on prompt, dependable parts availability and expertise through our global dealer network, ready to meet your needs 24/7.

**Service Support.** Every piece of Cat equipment is designed and built to provide maximum productivity and operating economy throughout its working life. Cat dealers offer a wide range of service plans that will maximize uptime and return on your investment, including:

- Preventive Maintenance Programs
- Diagnostic Programs, such as Scheduled Oil Sampling and Technical Analysis
- Rebuild and Reman Options
- Customer Support Agreements

**Technology Products.** Cat dealers offer a range of advanced technology products designed to improve fleet efficiency, increase productivity and lower costs.

**www.cat.com.** For more information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com).

**Operation.** With today's complex products, equipment operators must have a thorough understanding of machine systems and operating techniques to maximize efficiency and profitability. Your Cat dealer can arrange training programs to help operator's improve productivity, decrease downtime, reduce operating costs, enhance safety, and improve return on the investment you make in Cat products.

## Safety

*Caterpillar mining machines and systems are designed with safety as their first priority.*  
**SAFETY.CAT.COM™**

**Product Safety.** Caterpillar has been and continues to be proactive in developing mining machines that meet or exceed safety standards. Safety is an integral part of all machine and systems designs.

**Engine Shut Off Switch.** A secondary engine shutoff switch is located at ground level.

**Protective Structure.** The operator station has integrated into its construction a ROPS – Roll-over protective structures and FOPS – Falling object protective structures. This structure is resiliently mounted to the frame, reducing vibration to the operator for a more comfortable ride.

**Brake Systems.** Four corner oil-cooled braking system provides excellent control. The service brake system is actuated by modulated hydraulic pressure, while the parking break function is spring applied and hydraulic released. This system assures braking in the event of hydraulic failure.

### Standard Safety Features.

- Anti-skid upper deck surfaces
- Lower cab light
- Ground level compartment sight glasses
- Increased visibility
- 3-point access to cab and machine
- Push out safety glass
- Suspension seat
- Inertia reel retractable seat belt
- Lift arm support pins
- Hot and cold side of engine
- Steering frame lock
- Hinged belly guards



## Engine

Engine Model	Cat® C6.6 ACERT™	
Rated Power	2,200 rpm	
Gross Power – SAE J1995	136 kW	182 hp
Net Power – SAE J1349	119 kW	160 hp
Net Power – ISO 9249	119 kW	160 hp
Net Power – 80/1269/EEC	119 kW	160 hp
Bore	105 mm	4.1 in
Stroke	127 mm	5 in
Displacement	6.6 L	640.7 in <sup>3</sup>

- Power ratings apply at a rated speed of 2,200 rpm when tested under the reference conditions for the specified standard.
- Ratings based on SAE J1995 standard air conditions of 25° C (77° F) and 100 kPa (29.61 Hg) barometer. Power based on fuel having API gravity of 35 at 16° C (60° F) and an LHV of 42 780 kJ/kg (18,390 BTU/lb) when engine used at 30° C (86° F)
- Engine derate will commence at an altitude of 3000 m (9,842.5 ft)
- Compliant with U.S. Environmental Protection Agency Tier 3 emissions standards

## Operating Specifications

Nominal Payload Capacity	6800 kg	14,991 lb
Gross Machine Operating Weight	27 675 kg	61,013 lb
Static Tipping Load Straight Ahead Lift Arms Horizontal	20 351 kg	44,866 lb
Static Tipping Load Full Turn Lift Arms Horizontal	18 369 kg	40,497 lb
Breakout Force (SAE)	15 350 kg	33,847 lb

## Weights

Empty	20 875 kg	46,021 lb
Front Axle	8713 kg	19,209 lb
Rear Axle	12 162 kg	26,812 lb
Loaded	27 675 kg	61,013 lb
Front Axle	19 446 kg	42,871 lb
Rear Axle	8229 kg	18,142 lb

## Transmission

Forward 1	5.3 km/h	3.3 mph
Forward 2	10.1 km/h	6.3 mph
Forward 3	18.1 km/h	11.2 mph
Forward 4	26.1 km/h	16.2 mph
Reverse 1	4.9 km/h	3 mph
Reverse 2	9.2 km/h	5.7 mph
Reverse 3	16.5 km/h	10.2 mph
Reverse 4	25.9 km/h	16.1 mph

## Hydraulic Cycle Time

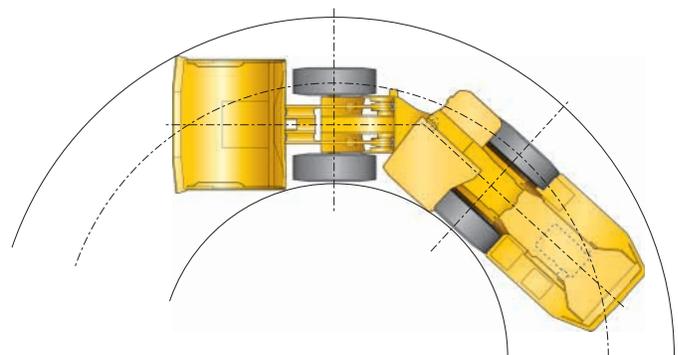
Raise	5 Seconds
Dump	2 Seconds
Lower, empty, float down	2.3 Seconds
Total Cycle Time	9.3 Seconds

## Bucket Capacities

Bucket Capacity – Std.	3.1 m <sup>3</sup>	4.1 yd <sup>3</sup>
Bucket Width (Over cutting edge)	2200 mm	86.6 in
Bucket Capacity – Optional	2.4 m <sup>3</sup>	3.1 yd <sup>3</sup>
Bucket Capacity – Optional	2.8 m <sup>3</sup>	3.7 yd <sup>3</sup>
Bucket Capacity – Optional	3.4 m <sup>3</sup>	4.4 yd <sup>3</sup>
Bucket Capacity – Optional (Ejector)	2.4 m <sup>3</sup>	3.1 yd <sup>3</sup>

## Turning Dimensions

Outside Clearance Radius**	5741 mm	226 in
Inner Clearance Radius**	2914 mm	114.7 in
Axle Oscillation	10°	
Articulation Angle	42.5°	



\*\* Clearance dimensions are for reference only.

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## Service Refill Capacities

Engine Crankcase with Filter	15.5 L	4.1 gal
Transmission	56 L	14.8 gal
Hydraulic Tank	88 L	23.2 gal
Cooling System	43.9 L	11.6 gal
Front Differential and Final Drives	38 L	10 gal
Rear Differential and Final Drives	42 L	11.1 gal
Fuel Tank	307 L	81.1 gal

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## Tires

Tire Size	17.5 × 25 20-PLY L5S STMS
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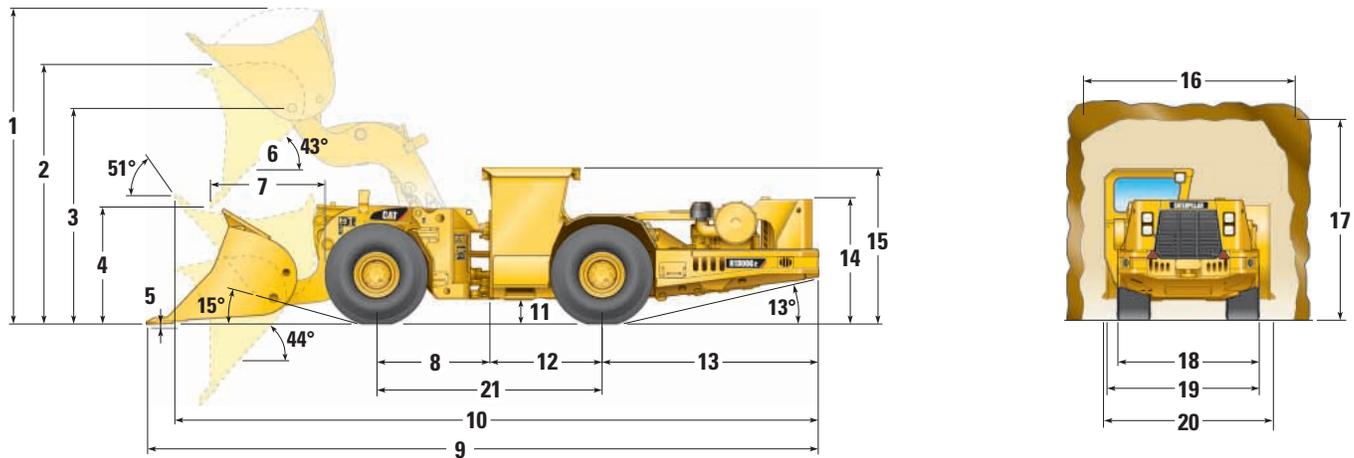
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## Standards

Brakes	ISO 3450, AS2958.1, CAN-CSA424.30-M90
Cab/FOPS	ISO 3449, SAE J231, AS2294.3, EN13627
Cab/ROPS	ISO 3471, SAE J1040, AS2294.2, EN13510

# Dimensions

All dimensions are approximate.



	243-5577	186-9278	243-6173 Standard Bucket	243-6224	157-3622 Ejector Bucket
Bucket Capacity	2.4 m <sup>3</sup> (3.1 yd <sup>3</sup> )	2.8 m <sup>3</sup> (3.7 yd <sup>3</sup> )	3.1 m <sup>3</sup> (4.1 yd <sup>3</sup> )	3.4 m <sup>3</sup> (4.4 yd <sup>3</sup> )	2.4 m <sup>3</sup> (3.1 yd <sup>3</sup> )
Bucket Width Over Cutting Edge	1950 mm (6'5")	2010 mm (6'7")	2200 mm (7'2")	2400 mm (7'11")	2200 mm (7'2")
<b>1</b> Overall Height – Bucket Raised	4232 mm (13'11")	4300 mm (14'1")	4302 mm (14'1")	4300 mm (14'1")	4300 mm (14'1")
<b>2</b> Max Dump Height	3548 mm (11'8")	3529 mm (11'7")	3531 mm (11'7")	3529 mm (11'7")	3577 mm (11'9")
<b>3</b> Bucket Pin Height at Max Lift	2918 mm (9'7")				
<b>4</b> Dump Clearance at Max Lift	1662 mm (5'5")	1558 mm (5'1")	1560 mm (5'1")	1561 mm (5'1")	1561 mm (5'1")
<b>5</b> Digging Depth	26 mm (0'1")	36 mm (0'1")	34 mm (0'1")	36 mm (0'1")	36 mm (0'1")
<b>6</b> Dump Angle at Max Lift	43°	43°	43°	43°	43°
<b>7</b> Reach	1476 mm (4'10")	1588 mm (5'3")	1583 mm (5'2")	1584 mm (5'2")	1584 mm (5'2")
<b>8</b> Centerline of Front Axle to Centerline of Hitch	1525 mm (5'0")				
<b>9</b> Overall Length (Digging)	8943 mm (29'4")	9100 mm (29'10")	9107 mm (29'11")	9095 mm (29'10")	9095 mm (29'10")
<b>10</b> Overall Length (Tramming)	8613 mm (28'3")	8707 mm (28'7")	8714 mm (28'7")	8704 mm (28'7")	8704 mm (28'7")
<b>11</b> Ground Clearance	328 mm (1'1")				
<b>12</b> Centerline of Back Axle to Centerline of Hitch	1525 mm (5'0")				
<b>13</b> Length – Rear Axle to Bumper	2932 mm (9'7")				
<b>14</b> Height to Top of Hood	1690 mm (5'7")				
<b>15</b> Height to Top of ROPS	2120 mm (6'11")				
<b>16</b> Tunnel Clearance Width**	3000 mm (9'10")				
<b>17</b> Tunnel Clearance Height**	2800 mm (9'2")				
<b>18</b> Overall Tire Width	1900 mm (6'3")				
<b>19</b> Overall Width Excluding Bucket	2071 mm (6'10")				
<b>20</b> Overall Width Including Bucket	2155 mm (7'1")	2185 mm (7'2")	2318 mm (7'7")	2518 mm (8'3")	2318 mm (7'7")
<b>21</b> Wheelbase	3050 mm (10'0")				

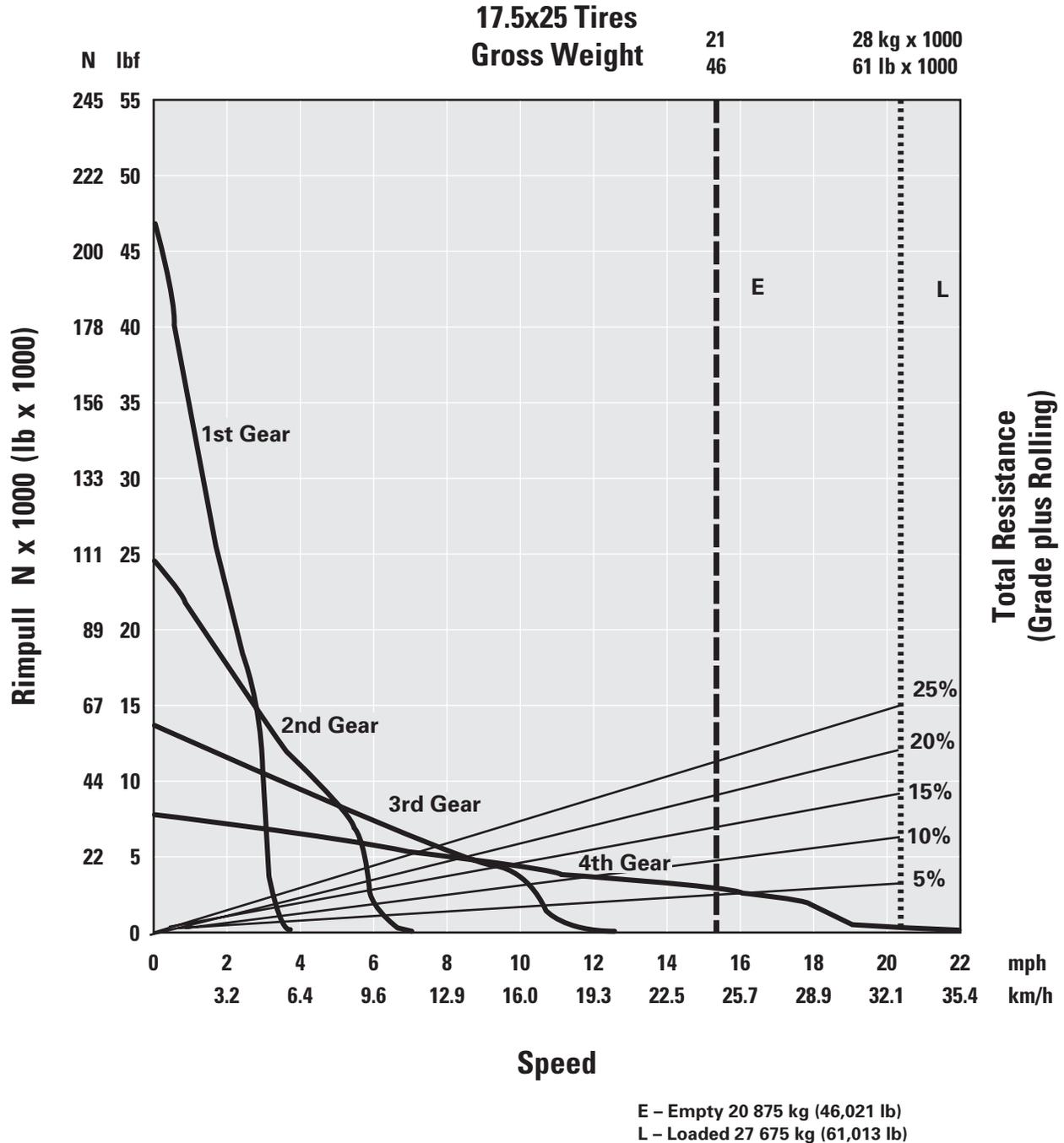
\*\* Clearance dimensions are for reference only.

# Gradeability/Speed/Rimpull

To determine gradeability performance: Read from gross weight down to the percent of total resistance. Total resistance equals actual percent grade plus rolling resistance. As a general guide use 2% for rolling resistance in underground applications or

refer to the Caterpillar Performance Handbook. From the total resistance point, read horizontally to the curve with the highest obtainable gear, then down to maximum speed. Usable rimpull will depend upon traction available and weight on drive wheels.

----- Typical Field Empty Weight  
 ..... Loaded Weight



## Standard Equipment

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

### Electrical

- Alternator, 95-amp
- Battery Disconnect Switch, Ground Level
- Circuit Breaker, 80-amp
- Corrosive Protection Spray
- Diagnostic Connector
- Electric Starting, 24-volt
- Engine Shutdown Switch
- External Lighting System, Front, Rear
- Low Maintenance Batteries
- Reversing Alarm
- Starting and Charging System

### Other Standard Equipment

- Catalytic Exhaust Purifier/Muffler Group
- Engine and Transmission Belly Guards
- Fenders, Front, Rear
- Firewall
- Hydraulic Oil Cooler, Swing Out
- Rear Frame Protection Wear Bars 100 × 50 mm (4 × 2 in)
- Rims, 5-Piece
- Semi Centralized Lubrication Points
- Swing Out Radiator Grill
- Tires, STMS 17.5 × 25 20-Ply (L5S) Bridgestone Slicks
- Bucket (3.1 m<sup>3</sup>, 4.1 yd<sup>3</sup>)

### Operator Environment

- Caterpillar Electronic Monitoring System (CEMS)
- Electric Horns
- Gauges
  - Engine Coolant Temperature
  - Fuel Level
  - Hydraulic Oil
  - Speedometer
  - Tachometer
  - Transmission
- Pilot Hydraulic Implement Controls, Single Joystick
- ROPS/FOPS Structure
- STIC™ Steering
- Suspension Tee Seat with Retractable Seat Belt
- Interlock System Includes ABA

### Power Train

- Cat C6.6 ATAAC Diesel Engine with ACERT™ Technology, 6-Cylinder
- Crossflow Radiator
- Engine Air Intake Precleaner
- Fuel Priming Aid
- Full Hydraulic Enclosed Wet Multiple-Disc Brakes (SAFR™)
- Long Life Coolant
- Manual Fuel Shut Off Tap
- Planetary Powershift Transmission with Automatic Shift Control, 4 Speed Forward/4 Speed Reverse
- Torque Converter
- Transmission Neutralizer
- Heat Shields

## Optional Equipment

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

5 Piece Spare Rim  
Alternative Tire Arrangements  
Automatic Lube System  
Auxiliary Start Receptacle  
Brake Light  
Brake Pressure Gauges  
Brake Release Arrangements  
Buckets  
    Bucket (2.4 m<sup>3</sup>, 3.1 yd<sup>3</sup>)  
    Bucket (2.8 m<sup>3</sup>, 3.7 yd<sup>3</sup>)  
    Bucket (3.4 m<sup>3</sup>, 4.4 yd<sup>3</sup>)  
    Ejector Bucket (2.4 m<sup>3</sup>, 3.1 yd<sup>3</sup>)  
    Bucket Heel Shrouds  
    Bucket Sacrificial Wear Strip Package  
Bucket Positioner, Return to Dig  
Cab Protection Bars  
Centralized Lube System, Manual  
Draw Bar Attachment, Bolt-on  
Duo Cone Seal Guards  
Ejector Bucket  
Ejector Bucket Ready, Includes 3rd Valve with Pilot Lines Only  
Electronic Access Module  
Fast Fill System  
    Coolant  
    Engine  
    Fuel  
    Hydraulic  
    Transmission  
Fire Extinguisher  
Fire Suppression System  
Front Light Protectors  
Heater, Cabin  
Hydraulic Tank Guard Protection Bars  
Oil Sample Adapters  
Operator Station  
    Air Conditioning  
    Pressurizer  
    Dome Light  
    Radio Ready  
Payload Control System (PCS)  
Radiator Guard Protection Bars  
Radiator Sand Blast Guards, Not Available with Air Con Cab  
Remote Activated Fire System  
Remote Control Systems  
    Proportional  
    Retrieval Attachment  
Reversible Steering  
Ride Control System  
Seat Covers  
Secondary Steering System  
Service Tools

# R1300G II Underground Mining Loader

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