

# R1300G

Underground Mining Loader



## Engine

|                         |                 |        |
|-------------------------|-----------------|--------|
| Engine Model            | Cat® 3306B DITA |        |
| Gross Power – SAE J1995 | 123 kW          | 165 hp |

## Operating Specifications

|                          |           |           |
|--------------------------|-----------|-----------|
| Nominal Payload Capacity | 6800 kg   | 14,991 lb |
| Gross Machine Mass       | 29 702 kg | 65,482 lb |

## Bucket Capacities

|                   |                        |                         |
|-------------------|------------------------|-------------------------|
| Bucket Capacities | 2.5-3.4 m <sup>3</sup> | 3.2-4.4 yd <sup>3</sup> |
|-------------------|------------------------|-------------------------|

R1300G Features

One Supplier

Caterpillar designed and manufactured major power and drive train components for reliability and performance.

Reliable and Durable Engine

The Cat 3306B engine offers the perfect balance between power, robust design and economy.

Power Shift Transmission

Reliable and rugged design to deliver power and efficiency for peak power train performance.

Hydraulics

Perfect balance between low effort controls and powerful forces for smooth and fast cycle time.

Durable Structures

The heavy duty frame is designed and built to absorb twisting, impact and high loading forces for maximum durability and reliability.

Comfortable Cab

Ergonomically designed for all-day comfort, control and productivity.

Enhanced Serviceability

Designed with improved service points and grouped service locations to simplify maintenance and repair.

Built in Safety

Safety is not an after thought, but an integral part of all machine and system design.

Contents

Power Train – Engine .....4

Power Train – Transmission .....5

Hydraulics .....6

Structures.....7

Operator Comfort .....8

Loader Bucket Systems .....9

Serviceability .....10

Customer Support.....11

Safety .....12

Specifications.....13

Standard Equipment.....16

Optional Equipment.....17

Notes.....18



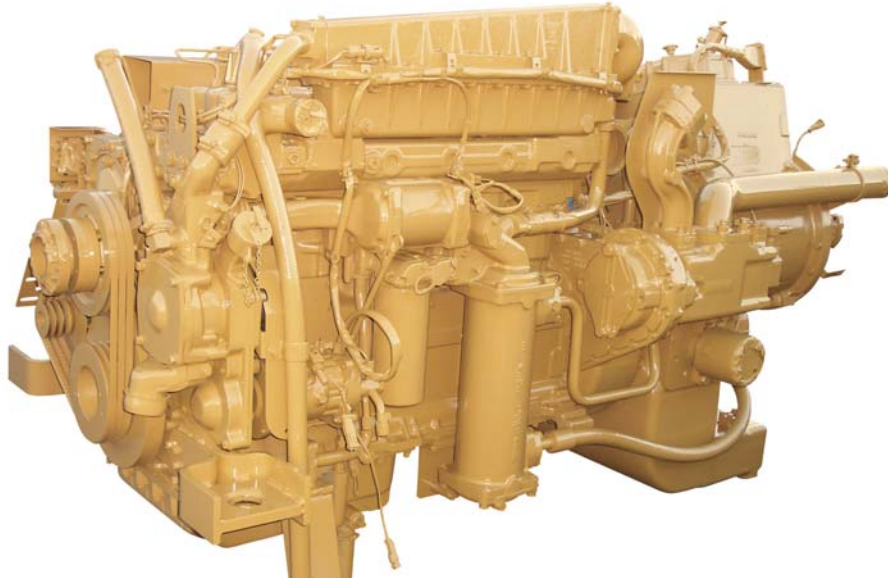


**The R1300G underground loader is designed for high production, low cost-per-ton loading and tramming in underground mining applications. Compact design with agile performance, rugged construction and simplified maintenance ensures excellent productivity, long life and low operating costs.**

**Engineered for performance, designed for comfort, built to last.**

# Power Train – Engine

The Cat 3306B engine is designed for power, reliability and efficiency.



## Engine

The Cat 3306B is a proven engine that delivers reliability and durability. The efficient and powerful engine delivers maximum loading and tramming performance in the most demanding mining applications. Complete system integration of the engine and transmission ensures fuel efficiency and smooth operation.

## 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.

## Full-length Water-cooler

Full-length water-cooled cylinder liners provide maximum heat transfer.

## Turbocharged and Aftercooled

Jacket water 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

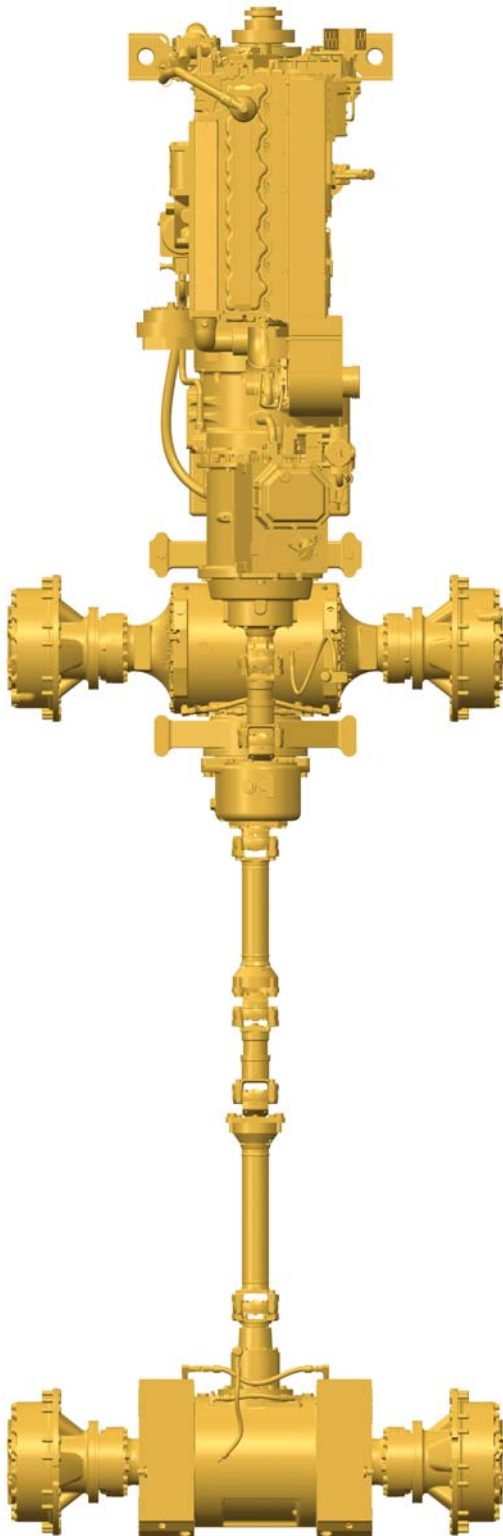
The high pressure direct injection fuel system provides excellent fuel atomization for unmatched reliability and durability.

## Crankshaft

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

# Power Train – Transmission

More power to the ground for greater productivity.



## Power Shift Transmission

The Cat four-speed planetary power shift transmission is matched with the Cat 3306B diesel engine to deliver constant power over a wide range of operating speeds.

## Robust Design

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

## Torque Converter

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

## Electronic Auto Shift 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.

## 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.

# 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

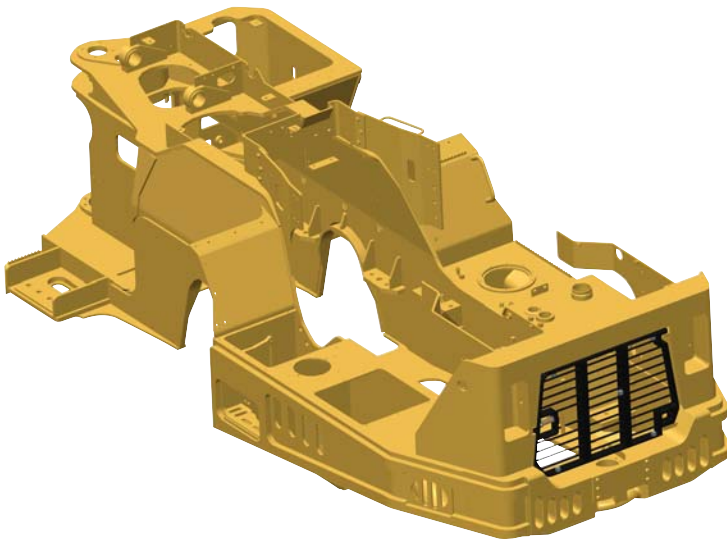
The optional ride control system uses a nitrogen filled oil accumulator in the hydraulic lift circuit to act as a shock absorber for the bucket and lift arms. The lift arm and bucket response to movement is dampened over rough ground, reducing fore and aft pitch, improving cycle times and load retention. 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

Rugged Cat structures – the backbone of the R1300G's durability.

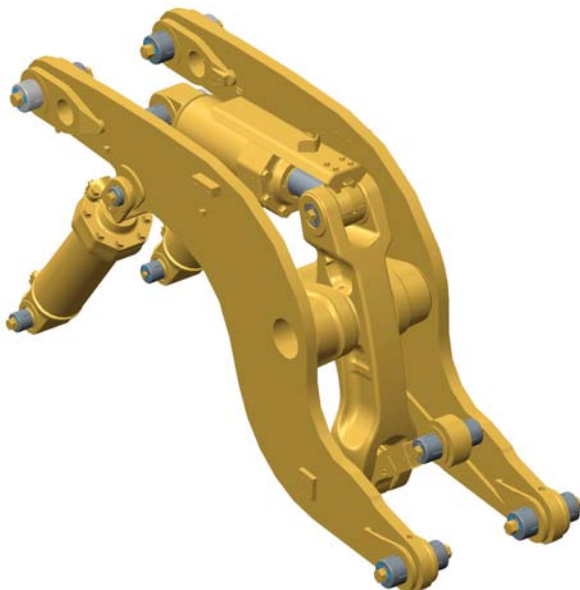


## Frame Design

The frame is engineered to withstand extreme forces generated during loading and tramming cycles. Precision manufacturing process ensures all structures are consistently built to high quality. Deep penetration and consistent welds throughout the frame ensures structures are solidly fused to provide sturdy platform for the linkage and the axles. The design and manufacturing quality of Cat LHD frames have been proven by our customers, many of whom reuse frames during machine rebuilds to get 2nd and 3rd lives out of their LHD's.

## 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.



## Sealed Pins

Sealed colleted pins are fitted to all major 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.

## 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. Heavy duty steel lift arms with cast steel cross tube ensures extreme loads encountered during loading and tramming are efficiently dissipated for long service life.

# Operator Comfort

Ergonomically designed for all-day comfort, control and productivity.

The 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.

## Protective Structure

Integral to the cab and frame, the Rollover Protective Structure (ROPS) and the Falling Objects Protective Structure (FOPS), are resiliently mounted to the frame to isolate the operator from vibration for a more comfortable ride.

## 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 condition for a more comfortable working environment.

## STIC Steering and Transmission Integrated Control

STIC provides effortless control of the complete mobility of the machine by single controller. Simple side-to-side motion articulates the machine. Directional shifting (forward/neutral/reverse) is controlled using a three position rocker switch. The thumb operated buttons control gear selection.

## 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.

## Monitoring System

Cat Electronic Monitoring System (Cat EMS) continuously provides critical machine data to keep the machine performing at top production levels.



# Loader Bucket Systems

Rugged performance and reliability in tough underground mining applications.



## 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.

Additional GET option is the Cat weld-on GET. Available weld-on GET offers more wear material to maximize system wear life and bucket protection. Downtime is also reduced by an even wear rate between corners and edge segments, allowing both to be replaced at the same time.

Another available option in the Cat Bolt-on Half Arrow (BOHA) GET System allows a step up over the Cat Weld On (CWO) offering. With an industry recognized bolt-on retention system, this GET is designed for extreme conditions in abrasive environments where traditional Weld-on GET is subject to high wear rates.



# Serviceability

More time for production.



## 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. Harnesses are covered for protection. Wires are color and number coded for easy diagnosis and repair.

## Scheduled Oil Sampling

S-O-S<sup>SM</sup> helps avoid minor repairs becoming major ones. Sample point adapters fitted standard to machine.



# Customer Support

Cat dealer services keep underground mining equipment productive.

## Dealer Capability

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

## Product Support

When Cat products reach the field, they are supported 24/7 by a worldwide network of reliable and prompt parts distribution facilities, dealer service centers, and technical training facilities to keep your equipment up and running.

## Service Support

Cat equipment is designed and built to provide maximum productivity and operating economy throughout its working life. Cat dealers will be with you every step of the way with its unsurpassed worldwide parts support, trained technicians and customer support agreements.

## Technology Products

Cat dealers offer a range of advanced technology products designed to improve efficiency, productivity and lower costs.

## Replacement

Repair or rebuild? Your Cat dealer can help you evaluate the costs so you can make the right choice.

# Safety

Cat mining machines and systems are designed with safety as their first priority.

## 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.

## Integral ROPS Cab

Integral to the cab and frame, the ROPS is resiliently mounted to the frame to isolate the operator from vibration for a more comfortable ride.

## Brake Systems

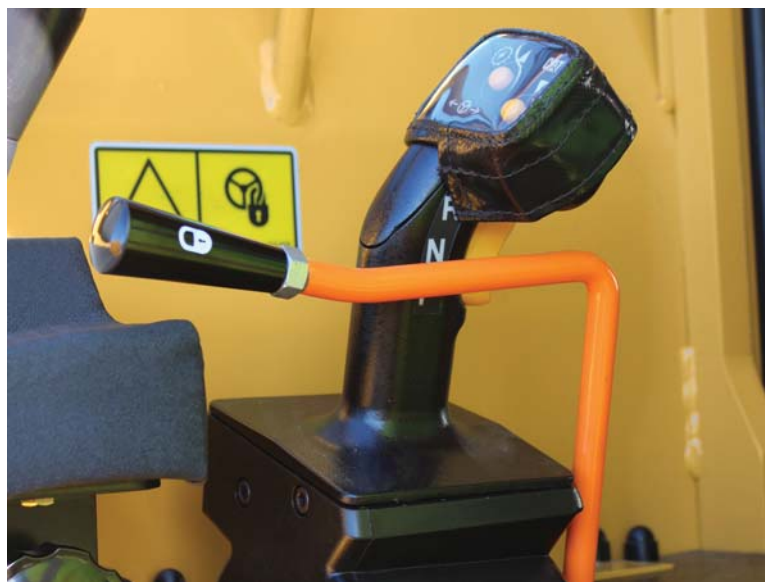
Four corner oil-cooled braking system provides excellent control. The service brake system is actuated by modulated hydraulic pressure, while the parking brake function is spring applied and hydraulic released. This system assures braking in the event of loss of hydraulic failure.

## Standard Safety Features

Anti-skid upper deck surfaces, ground level compartment sight gauges, 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.

## SAFETY.CAT.COM™

For more complete information on safety, please visit [www.cat.com/safety](http://www.cat.com/safety).



# R1300G Underground Mining Loader Specifications

## Engine

|                         |                |                        |
|-------------------------|----------------|------------------------|
| Engine Model            | Cat 3306B DITA |                        |
| Gross Power – SAE J1995 | 123 kW         | 165 hp                 |
| Bore                    | 120.7 mm       | 4.75 in                |
| Stroke                  | 152.4 mm       | 6 in                   |
| Displacement            | 10.5 L         | 640.75 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 inHg) 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 4500 m (14,763.7 ft).

## Operating Specifications

|                                                         |           |           |
|---------------------------------------------------------|-----------|-----------|
| Gross Machine Mass                                      | 29 702 kg | 65,842 lb |
| Static Tipping Load Straight Ahead Lift Arms Horizontal | 20 575 kg | 45,360 lb |
| Static Tipping Load Full Turn Lift Arms Horizontal      | 17 870 kg | 39,397 lb |
| Breakout Force (SAE)                                    | 12 020 kg | 26,504 lb |

## Weights

|            |           |           |
|------------|-----------|-----------|
| Empty      | 20 725 kg | 45,691 lb |
| Front Axle | 7625 kg   | 16,810 lb |
| Rear Axle  | 13 100 kg | 28,881 lb |
| Loaded     | 27 525 kg | 60,682 lb |
| Front Axle | 18 645 kg | 41,105 lb |
| Rear Axle  | 8880 kg   | 19,577 lb |

## Transmission

|           |           |          |
|-----------|-----------|----------|
| Forward 1 | 4.5 km/h  | 2.8 mph  |
| Forward 2 | 7.8 km/h  | 4.8 mph  |
| Forward 3 | 15 km/h   | 9.3 mph  |
| Forward 4 | 26.3 km/h | 16.3 mph |
| Reverse 1 | 4.5 km/h  | 2.8 mph  |
| Reverse 2 | 7.8 km/h  | 4.8 mph  |
| Reverse 3 | 14.8 km/h | 9.2 mph  |
| Reverse 4 | 23 km/h   | 14.3 mph |

## Hydraulic Cycle Time

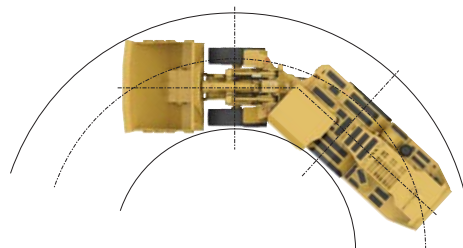
|                          |             |
|--------------------------|-------------|
| Raise                    | 5 Seconds   |
| Dump                     | 2 Seconds   |
| Lower, empty, float down | 2.3 Seconds |
| Total Cycle Time         | 9.3 Seconds |

## Bucket Capacities

|                                   |                    |                     |
|-----------------------------------|--------------------|---------------------|
| Dump Bucket – 1                   | 2.5 m <sup>3</sup> | 3.2 yd <sup>3</sup> |
| Dump Bucket – 2                   | 2.8 m <sup>3</sup> | 3.7 yd <sup>3</sup> |
| Dump Bucket – 3 (Standard Bucket) | 3.1 m <sup>3</sup> | 4.1 yd <sup>3</sup> |
| Dump Bucket – 4                   | 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> |

## Turning Dimensions

|                          |         |          |
|--------------------------|---------|----------|
| Outside Clearance Radius | 5717 mm | 225.1 in |
| Inner Clearance Radius   | 2825 mm | 111.2 in |
| Axle Oscillation         | 10°     |          |
| Articulation Angle       | 42.5°   |          |



## Tires

|           |                 |
|-----------|-----------------|
| Tire Size | 17.5 × R25 VSMS |
|-----------|-----------------|

## Service Refill Capacities

|                                     |       |          |
|-------------------------------------|-------|----------|
| Engine Crankcase with Filter        | 25 L  | 6.6 gal  |
| Transmission                        | 45 L  | 11.9 gal |
| Hydraulic Tank                      | 88 L  | 23.2 gal |
| Cooling System                      | 67 L  | 17.7 gal |
| Front Differential and Final Drives | 38 L  | 10 gal   |
| Rear Differential and Final Drives  | 42 L  | 11.1 gal |
| Fuel Tank                           | 295 L | 77.9 gal |

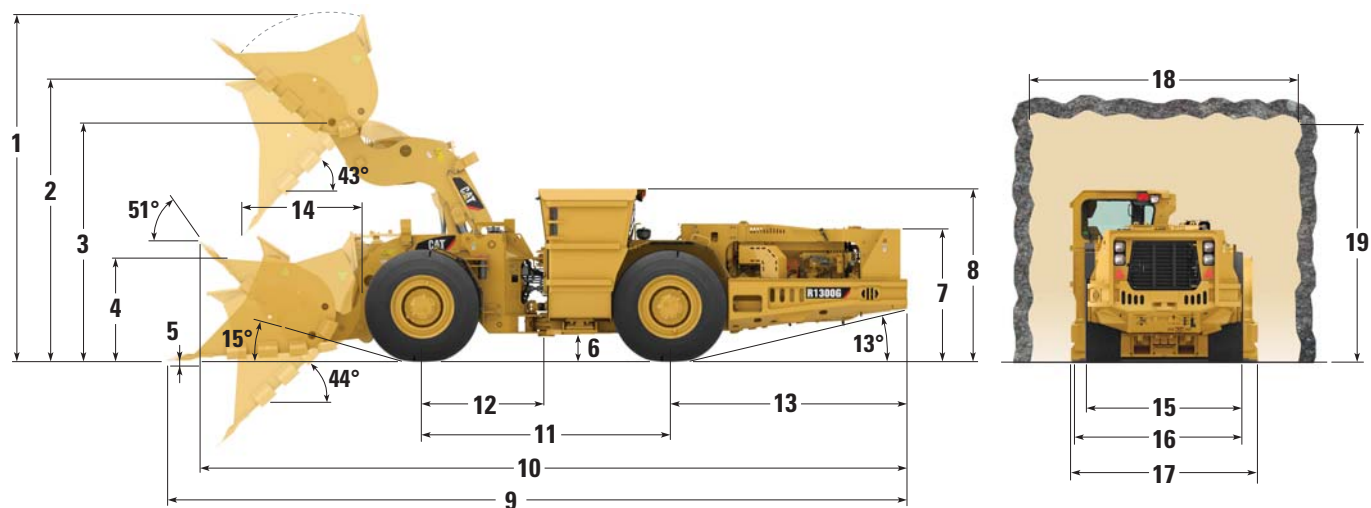
## Standards

ROPS/FOPS Certified Cab

# R1300G Underground Mining Loader Specifications

## Dimensions

All dimensions are approximate.



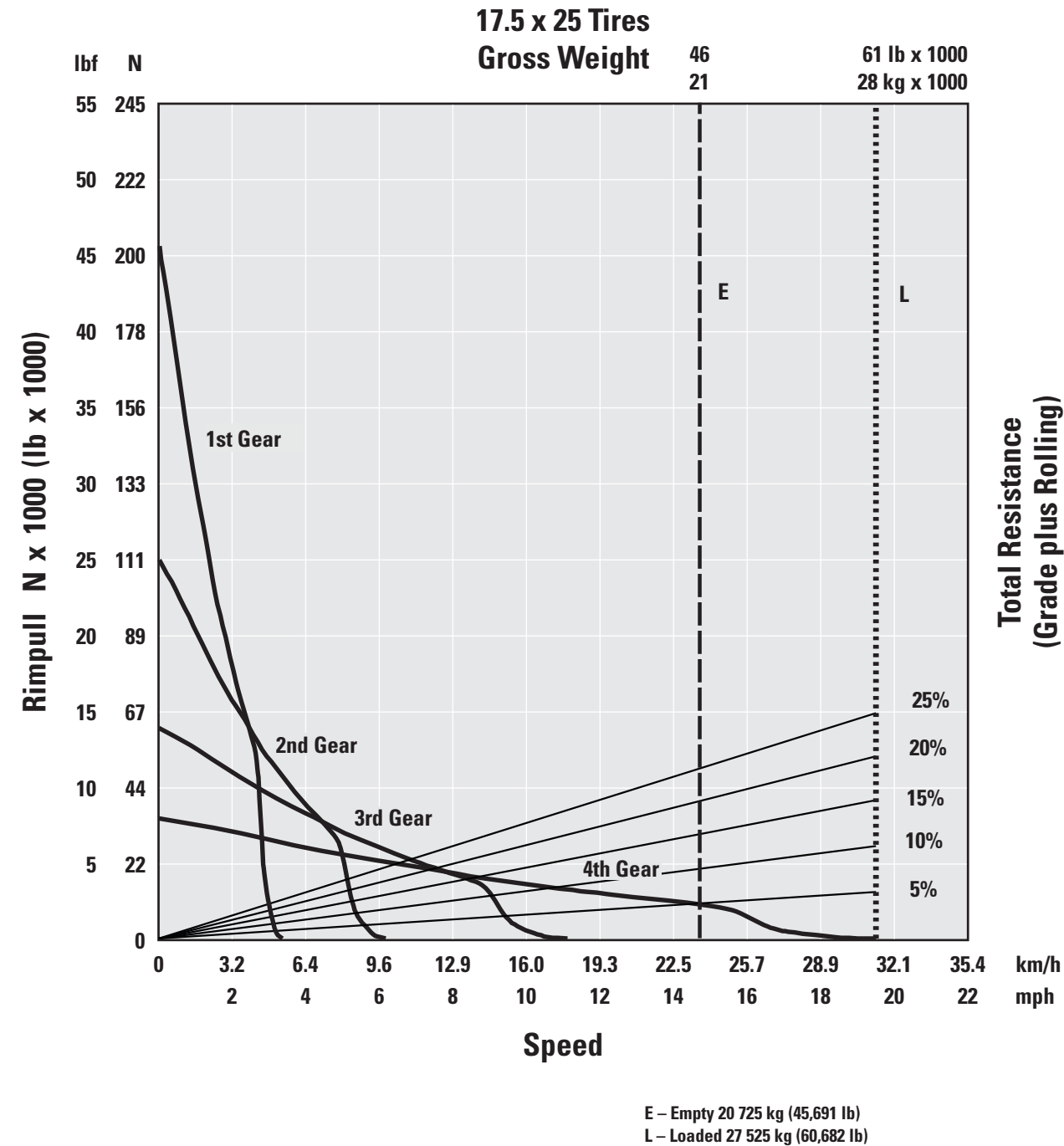
|                                              | 513-7350           |                     | 186-9278           |                     | 243-6143           |                     | 243-6224           |                     | 157-3622           |                     |
|----------------------------------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|--------------------|---------------------|
|                                              | Dump Bucket        |                     | Dump Bucket        |                     | Dump Bucket        |                     | Dump Bucket        |                     | Ejector Bucket     |                     |
| Bucket Capacity                              | 2.5 m <sup>3</sup> | 3.2 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> |
|                                              | mm                 | in                  | mm                 | in                  | mm                 | in                  | mm                 | in                  | mm                 | in                  |
| Bucket Width over Cutting Edge               | 2010               | 79.1                | 2010               | 79.1                | 2200               | 86.6                | 2400               | 94.5                | 2200               | 86.6                |
| <b>1</b> Height – Bucket Raised              | 4302               | 169.4               | 4302               | 169.4               | 4302               | 169.4               | 4302               | 169.4               | 4302               | 169.4               |
| <b>2</b> Height – Max Dump                   | 3531               | 139.0               | 3531               | 139.0               | 3531               | 139.0               | 3531               | 139.0               | 3579               | 140.9               |
| <b>3</b> Height – Max Lift Bucket Pin        | 2918               | 114.9               | 2918               | 114.9               | 2918               | 114.9               | 2918               | 114.9               | 2918               | 114.9               |
| <b>4</b> Height – Dump Clearance at Max Lift | 1695               | 66.7                | 1560               | 61.4                | 1560               | 61.4                | 1563               | 61.5                | 1563               | 61.5                |
| <b>5</b> Height – Digging Depth              | 21                 | 0.8                 | 36                 | 1.4                 | 34                 | 1.3                 | 36                 | 1.4                 | 36                 | 1.4                 |
| <b>6</b> Height – Ground Clearance           | 321                | 12.6                | 321                | 12.6                | 321                | 12.6                | 321                | 12.6                | 321                | 12.6                |
| <b>7</b> Height – Top of Hood                | 1628               | 64.1                | 1628               | 64.1                | 1628               | 64.1                | 1628               | 64.1                | 1628               | 64.1                |
| <b>8</b> Height – Top of ROPS                | 2120               | 83.5                | 2120               | 83.5                | 2120               | 83.5                | 2120               | 83.5                | 2120               | 83.5                |
| <b>9</b> Length – Overall (Digging)          | 8915               | 351.0               | 9100               | 358.3               | 9107               | 358.5               | 9095               | 358.1               | 9095               | 358.1               |
| <b>10</b> Length – Overall (Tramming)        | 8590               | 338.2               | 8707               | 342.8               | 8714               | 343.1               | 8704               | 342.7               | 8704               | 342.7               |
| <b>11</b> Length – Wheelbase                 | 3050               | 120.1               | 3050               | 120.1               | 3050               | 120.1               | 3050               | 120.1               | 3050               | 120.1               |
| <b>12</b> Length – Front Axle to Hitch       | 1525               | 60.0                | 1525               | 60.0                | 1525               | 60.0                | 1525               | 60.0                | 1525               | 60.0                |
| <b>13</b> Length – Rear Axle to Bumper       | 2932               | 115.4               | 2932               | 115.4               | 2932               | 115.4               | 2932               | 115.4               | 2932               | 115.4               |
| <b>14</b> Length – Reach                     | 1450               | 57.1                | 1588               | 62.5                | 1583               | 62.3                | 1584               | 62.4                | 1584               | 62.4                |
| <b>15</b> Width – Overall Tire               | 1900               | 74.8                | 1900               | 74.8                | 1900               | 74.8                | 1900               | 74.8                | 1900               | 74.8                |
| <b>16</b> Width – Machine without Bucket     | 2109               | 83.0                | 2109               | 83.0                | 2109               | 83.0                | 2109               | 83.0                | 2109               | 83.0                |
| <b>17</b> Width – Machine with Bucket        | 2195               | 86.4                | 2195               | 86.4                | 2290               | 90.2                | 2460               | 96.9                | 2290               | 90.2                |
| <b>18</b> Recommended Clearance Width        | 3000               | 118.1               | 3000               | 118.1               | 3000               | 118.1               | 3000               | 118.1               | 3000               | 118.1               |
| <b>19</b> Recommended Clearance Height       | 2800               | 110.2               | 2800               | 110.2               | 2800               | 110.2               | 2800               | 110.2               | 2800               | 110.2               |

# R1300G Underground Mining Loader Specifications

## 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 application 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



# R1300G Standard Equipment

## Standard Equipment

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

### ELECTRICAL

- Alternator, 75-amp
- Auxiliary Start Receptacle
- 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, Halogen Work Lights
- Low Maintenance Batteries
- Reversing Alarm
- Starting and Charging System

### OPERATOR ENVIRONMENT

- Cat Electronic Monitoring System (Cat EMS)
- Electric Horns
- Gauges
  - Engine Coolant Temperature
  - Fuel Level
  - Hydraulic Oil Temperature
  - Speedometer
  - Tachometer
  - Transmission Temperature
- Indicator Lights
  - Alert Warning Light
  - Residual Brake Pressure
- Pilot Hydraulic Implement Controls, Single Joystick
- Open Operator Station ROPS/FOPS Structure with Removable Canopy Structure
- STIC Steering
- Suspension Tee Seat with Retractable Seat Belt

### POWER TRAIN

- Cat 3306B DITA Diesel Engine, 6-Cylinder
- Crossflow Radiator
- Duo-Cone™ Seal Guards
- Engine Air Intake Precleaner
- Fuel Priming Aid
- Full Hydraulic Enclosed Wet Disc Brakes (SAFR™)
- Heat Shields
- Manual Fuel Shut Off Tap
- Planetary Powershift Transmission with Automatic Shift Control, 4 Speed Forward/4 Speed Reverse
- Rims, 5-piece, Tubeless
- Torque Converter
- Transmission Neutralizer
- Transmission Filter Drain Tap

### OTHER STANDARD EQUIPMENT

- Brake Light
- Bucket, Dump
- Bucket Lip
- Catalytic Exhaust Purifier/Muffler Group
- Cap, Radiator Manual Release
- Decals, International Picto Graphics
- Engine and Transmission Belly Guards
- Fenders, Front, Rear
- Firewall
- Handholds
- Hydraulic Oil Cooler, Swing Out
- Operation and Maintenance Manual – English and other applicable local languages to select
- Protection Wear Bars 100 × 50 mm (4 × 2 in)
- Radiator Grill, Swing Out
- Semi Centralized Lubrication Points
- S·O·S port
  - Coolant
  - Engine Oil
  - Hydraulic Oil
  - Transmission Oil
- Swing Out Radiator Grill
- Tires and Rims: A tire must be selected from the mandatory attachments section of the machine price list. Base machine price includes a standard tubeless rim allowance only.

## Optional Equipment

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

- After-Treatment Options
  - DPF (Flow Through)
- Brake Release Arrangements, Includes Steering Release
  - Recovery Hook
  - Recovery Bar
- Brake Pressure Gauges
- Buckets
  - Cutting Edge, Bolt-On
  - Cutting Edge, Cat Weld On
  - Cutting Edge, Half Arrow, Flat
  - Ejector Bucket Installed
  - Heel Shrouds, Ejector and Dump Buckets
  - Lip Fully Welded or Tack Welded
  - Mechanically Attached Wear Plate System (MAWPS)
  - Various Sizes, Dump (2.5 m<sup>3</sup>/3.2 yd<sup>3</sup> to 3.4 m<sup>3</sup>/4.4 yd<sup>3</sup>), Ejector (2.4 m<sup>3</sup>/3.1 yd<sup>3</sup>)
  - Standard Lip or Bolt-On Lip
  - Wear Bars, Ejector and Dump Buckets
  - Wear Liner (2.8 m<sup>3</sup>/3.1 yd<sup>3</sup> and 3.1 m<sup>3</sup>/4.1 yd<sup>3</sup> Dump Bucket)
- Chain Ready Front Fenders (requires chain ready rims, chains not included)
- Covers
  - Antivandalism for Shipping
  - Guard, Light
  - Rear Grill (Additional Bolt-On Guard)
- Draw Bar Attachment, Bolt-On
- Fast Fill System
  - Coolant
  - Engine Oil
  - Fuel
  - Hydraulic Oil
  - Transmission Oil
- Fire Suppression System
  - Ansul, Powder Based
- Fluids
  - Arctic Fuel
  - Arctic Coolant
- Front Light Protectors
- Hydraulic System
  - Ejector Bucket Ready
  - Alternate Implement/Pilot Control Configuration
  - Alternate Oil Level Gauge
- Lifting Group, Mine Transfer
- Lubrication System
  - Automatic
  - Centralized
- Operators Station ROPS/FOPS Enclosed
  - Air Conditioning
  - Cab Pressurizer and Filter
  - Dome Light
  - Door Strut
  - Heater
  - Radio Ready Compartment for Radio and Speakers
  - Wiper Control, Intermittent
- Park Brake Automatic Activation
- Park Brake Switch Engagement
  - Push to Apply
  - Pull to Apply
- Payload Control System (PCS)
- Reflective Tape (Yellow/Green)
- Remote Control Interface (excludes Transmitter and Receiver), Includes Warning Lights (Green)
  - Cattron
  - RCT
- Radiator, High Ambient
- Reversible Steering
- Ride Control System
- Rim
  - Tube Type
  - Tube or Tubeless (chain ready)
  - Spare (Tube or Tubeless)
  - Rim Identification Numbering
- Seat Covers, Tee and Standard
- Secondary Steering System
- Service Tools
  - Recovery Bar (for use with Brake Release, Recovery Bar System)
  - Reference Parts Manual for Additional Tooling Available
- Switches
  - Idle Timer
  - Lift Arm Positioner
  - Transmission Neutralizer Override Switch
  - Transmission Pressure ABA Park Brake Engagement
- Tire Arrangements
  - Tire, 17.5 × R25 VSMS L5S Bridgestone
  - Tire, 17.5 × 25, VSDL Bridgestone
- Wear Protection Bars/Plates
  - Cab/ROPS
  - Hydraulic Tank
  - Radiator
  - Articulation





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

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