

PRODUCT SPECIFICATIONS FOR R1700G

ENGINE

Engine Model	Cat® C11
Gross Power - SAE J1995	263 kW
Bore	130 mm
Stroke	140 mm
Displacement	11.1 l
Rated Power	1800 r/min
Gross Power - Tier 3 Engine - SAE J1995 (1st-3rd Gear/4th Gear)	242/263 kW (324/353 hp)
Note (1)	Power ratings apply at a rated speed of 1,800 rpm when tested under the reference conditions for the specified standard.
Gross Power - Equivalent to U.S. EPA Tier 3/EU Stage IIIA - SAE J1995 (1st-3rd gear/4th gear)	242/263 kW (324/353 hp)
Note (5)	Optional engine with emissions equivalent to U.S. EPA Tier 3 and EU stage IIIA is also available.
Note (2)	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).
Note (3)	Engine derate will commence at an altitude of 3050 m (10,006 ft).
Note (4)	Optional Ventilation Reduction package available.
Gross Power - VR Engine - SAE J1995	263 kW

OPERATING SPECIFICATIONS

Nominal Payload Capacity	12500 kg
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Breakout Force - SAE	20885 kg
Static Tipping Load - Full Turn - Lift Arms Horizontal	26306 kg
Gross Machine Mass - Truck Loading	53000 kg
Gross Machine Mass - Trimming	54500 kg
Static Tipping Load - Straight Ahead - Lift Arms Horizontal	31781 kg
Nominal Payload Capacity - Trimming	14000 kg
Nominal Payload Capacity - Truck Loading	12500 kg

WEIGHTS

Empty	38500 kg
Loaded	51000 kg
Loaded - Front Axle	37077 kg
Empty - Front Axle	16940 kg
Loaded - Trimming	52500 kg
Empty - Rear Axle	21560 kg
Loaded - Rear Axle	13923 kg

TRANSMISSION

Forward - 1	4.7 km/h
Forward - 2	8.3 km/h
Forward - 3	14.3 km/h
Forward - 4	24.1 km/h
Reverse - 1	5.4 km/h
Reverse - 2	9.4 km/h
Reverse - 3	16.4 km/h

Reverse - 4	25.3 km/h
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HYDRAULIC CYCLE TIMES

Total Cycle Time	12.1 s
Dump	2.9 s
Lower, Empty, Float Down	2.4 s
Raise	6.8 s

BUCKET CAPACITIES

Ejector Bucket	5.7 m ³
Dump Bucket - 1	4.6 m ³
Dump Bucket - 2	5 m ³
Dump Bucket - 4	6.6 m ³
Dump Bucket - 3 - Standard Bucket	5.7 m ³
Bucket Capacity	4.6-8.8 m ³ (6.0-11.5 yd ³)
Dump Bucket - 5	7.3 m ³
Dump Bucket - 6	8.8 m ³

TURNING DIMENSIONS

Axle Oscillation	8°
Inner Clearance Radius**	3229 mm
Outside Clearance Radius**	6878 mm
Articulation Angle	44°
Note	**Clearance Dimensions are for reference only.

TIRES

Tire Size	26.5 × 25
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SERVICE REFILL CAPACITIES

Transmission	47 l
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Front Differential and Final Drives	90 l
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Engine Crankcase - With Filter	34 l
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Rear Differential and Final Drives	90 l
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Fuel Tank	569 l
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Cooling System	63 l
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Secondary Fuel Tank - If Equipped	446 l
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Hydraulic Tank	125 l
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STANDARDS

Standards	ROPS/FOPS Certified Cab
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R1700G STANDARD EQUIPMENT

ELECTRICAL

12V Power Supply in Cab

Alternator, 95-amp

Auxiliary Start Receptacle

Battery Disconnect Switch, Ground Level

Circuit Breaker, 80-amp

Corrosive Protection Spray

Diagnostic Connector

Electric Starting, 24-volt

Engine Shutdown Switches
– Rear Right Hand Side

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
- Transmission Coolant Temperature
- Hydraulic Oil Temperature
- Fuel Level
- Speedometer
- Tachometer

Indicator Lights

- Alert Warning Light
- Residual Brake Pressure

Low Hydraulic Level Warning

Open Operator Station ROPS/FOPS Structure

Operator Presence System (Auto Park Brake)

Pilot Hydraulic Implement Controls, Single Joystick

Push Button Panel for Lights

Suspension Seat with Retractable Seat Belt

STIC Steering

POWER TRAIN

Cat C11 Diesel Engine, ATAAC, 6 Cylinder

Brake Axle Cooling

Electric Fuel Priming Pump

Engine Air Intake Precleaner

Engine Oil Filter, Remote Mounted

Fuel System Manual Shut Off Tap

Heat Shields

Long Life Coolant

Planetary Powershift Transmission with Automatic Shift Control, 4 Speed Forward/4 Speed Reverse

Radiator, Cross Flow

Radiator Cap Manual Release

Rims, 5-Piece, Tubeless

SAFR™ Full Hydraulic Enclosed Wet Multiple-Disc Brakes

Torque Converter

Transmission Neutralizer

Transmission Filter Drain Tap

OTHER STANDARD EQUIPMENT

Brake Light

Bucket Control Group, Standard

Bucket, Dump

Bucket Lip

Bucket Positioner, Return To Dig

Catalytic Exhaust Purifier/Muffler Group

Decals, International Picto Graphics

Engine and Transmission Belly Guards

Fenders, Front, Rear

Firewall

Fuel Lines Double Braided (Stainless Sleeving)

Hand Hold (Access On/Off Top Deck)

Hydraulic Oil Cooler – Swing Out Rear Frame

Operation and Maintenance Manual – English and other applicable local languages to select

Protection Wear Bars 100 × 50 mm (4 × 2 in)

Rims, 5-Piece, Tubeless

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.

R1700G OPTIONAL EQUIPMENT

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Battery and Engine Shutdown Switch

- Ground Level Isolation, In Cab Isolation Switch

Brake Pressure Gauges

Brake Release Arrangements, (Requires Lines Steering Release)

- Recovery Hook
- Recovery Bar

Buckets

- Bucket, Light Weight Material (8.8 m³/11.5 yd³) (Requires Control Group, Heavy Duty)
- Ejector Bucket Installed
- Various Sizes, Dump (4.2 m³/5.5 yd³ to 7.3 m³/9.5 yd³), Ejector (5.7 m³/7.5 yd³)

Bucket, Control Group, Heavy Duty (Required for Light Weight Buckets)

Bucket Hardware

- Cutting Edge, Bolt-On Half-Arrow (BOHA)
- Cutting Edge, Cat Weld-on
- Cutting Edge, Half Arrow, Flat
- Heel Shrouds, Ejector and Dump Buckets
- Mechanically Attached Shrouds (MAS)
- Mechanically Attached Wear Plate System, Cutting Edge Protection (MAWPS)
- Mechanically Attached Wear Plate System, Bottom Protection (MAWPS)
- Protector Pads (Bottom of Bucket)
- Wear Bars, Ejector and Dump Buckets
- Wear Liner (5.7 m³/7.5 yd³ Dump Bucket)

Bucket Lip

- Lip Fully Welded or Tack Welded
- Lip Bare (No Hardware)
- Bolt-On Ready
- MAS Ready (Mechanically Attached Shrouds)

Camera, Color Rear Facing

Cover, Anti Vandalism for Shipping

Draw Bar Attachment, Bolt-on

Engine Options

- Engine, Ventilation Reduction (VR)
- Equivalent to Tier 3
- After-treatment options (for use with VR Engine only)
 - DPF (Flow Through) Filter

Fast Fill System

- Coolant
- Engine Oil
- Fuel (Single or Dual Tanks)
- Hydraulic Oil
- Transmission Oil

Fire Suppression System

- Ansul, Dry Powder
- Foam, Water Based

Front Light Protectors

Fuel System

- Dual Fuel Tanks

Guards

- Guard, Rear Side Quarter Window
- Guard Duo Cone Seal

Handrails

- Fold Down

Hydraulic System

- Ejector Bucket Ready
- Alternate Implement/Pilot Control Configuration

Lubrication System

- Automatic
- Centralized

Lighting

- External Lighting System, Front, Rear, LED Work Lights

Mine Transfer

- Mine Transfer Ready Rear Frame (Tack Welded)
- Lifting Group, Mine Transfer

Operators Station ROPS/FOPS Enclosed

- Air Conditioning
- Cab Pressurizer and Filter
- Duct, Window Demister
- Dome Light
- Heater
- Radio Ready Compartment for Radio and Speakers
- Strut, Cab Door

Operators Station FOPS Open

- Removable Canopy

Park Brake Switch Engagement

- Push to Apply
- Pull to Apply

Payload Control System

- Loadrite L2180

Remote Control Interface (excludes Transmitter and Receiver)

- Cattron
- RCT

Reversible Steering

Reflective Tape

Ride Control System

Rim

- Rim Identification Numbering
- Spare (Tube or Tubeless)
- Tube Type

Seats

- Seat Covers, Tee, Air and Standard
- Suspension Seat Tee, Vinyl
- Suspension Seat Tee, Air
- Suspension Seat Air Vinyl

Secondary Steering System

Service Tools

- Recovery Bar (for use with Brake Release, Recovery Bar System)
- Reference Parts Manual for Additional Tooling Available

Switches

- Additional Engine Shutdown, Mounted LHS
- Engine Shutdown, Fire Suppression Activation
- Idle Timer
- Engine Shutdown/Idle Timer
- Transmission Neutralizer Override Switch

Technology

- Command for Underground
- Vital Information Management System (VIMS) Gen 3

Tire Arrangements

- Tire, 26.5 × R25, VSMS2 L5 Bridgestone
- Tire, 26.5 × 25, VSDL, Bridgestone
- Tire, 26.5 × 25, 32 Ply, Goodyear

Wear Protection Bars

- Cab/ROPS
- Hydraulic Tank
- Radiator
- Wear Plate, Rear Underneath

NOTE: Not all features are available in all regions. See your Cat dealer for more information.

