

# Product Specifications For R1300G



## Engine

<b>Engine Model</b>	Cat® 3306B DITA
<b>Engine Power - ISO 14396:2002</b>	117 kW
<b>Bore</b>	120.7 mm
<b>Stroke</b>	152.4 mm
<b>Displacement</b>	10.5 l
<b>Note (1)</b>	Power ratings apply at a rated speed of 2,200 rpm when tested under the reference conditions for the specified standard.
<b>Note (2)</b>	All rating conditions are based on ISO/TR14396:2002, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in Hg), with a vapor pressure of 1 kPa (0.295 in Hg), and 25° C (77° F). Performance measured using fuel to EPA specifications in 40 CFR Part 1065 and EU specifications in Directive 97/68/EC with a density of 0.845-0.850 kg/L @ 15° C (7.05-7.09 lb/gal @ 59° F) and fuel inlet temperature 40° C (104° F).
<b>Note (3)</b>	Engine derate will commence at an altitude of 4500 m (14,763.7 ft).

## Operating Specifications

<b>Nominal Payload Capacity</b>	6800 kg
<b>Gross Machine Mass</b>	29702 kg
<b>Static Tipping Load - Straight Ahead - Lift Arms Horizontal</b>	20575 kg
<b>Static Tipping Load - Full Turn - Lift Arms Horizontal</b>	17870 kg
<b>Breakout Force - SAE</b>	12020 kg

## Weights

<b>Operating Mass*</b>	20725 kg
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<b>Operating Mass* - Front Axle</b>	7625 kg
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<b>Operating Mass* - Rear Axle</b>	13100 kg
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<b>Operating Mass + Rated Payload*</b>	27525 kg
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<b>Operating Mass + Rated Payload* - Front Axle</b>	18645 kg
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<b>Operating Mass + Rated Payload* - Rear Axle</b>	8880 kg
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<b>Note</b>	*Calculated weights.
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## Transmission

<b>Forward - 1</b>	4.5 km/h
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<b>Forward - 2</b>	7.8 km/h
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<b>Forward - 3</b>	15 km/h
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<b>Forward - 4</b>	26.3 km/h
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<b>Reverse - 1</b>	4.5 km/h
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<b>Reverse - 2</b>	7.8 km/h
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<b>Reverse - 3</b>	14.8 km/h
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<b>Reverse - 4</b>	23 km/h
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## Hydraulic Cycle Times

<b>Raise</b>	5 s
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<b>Dump</b>	2 s
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<b>Lower, Empty, Float Down</b>	2.3 s
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Total Cycle Time	9.3 s
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## Bucket Capacities

Dump Bucket - 1	2.5 m <sup>3</sup>
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Dump Bucket - 2	2.8 m <sup>3</sup>
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Dump Bucket - 3 - Standard Bucket	3.1 m <sup>3</sup>
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Dump Bucket - 4	3.4 m <sup>3</sup>
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Ejector Bucket	2.4 m <sup>3</sup>
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## Turning Dimensions

Outside Clearance Radius	5717 mm
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Inner Clearance Radius	2825 mm
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Axle Oscillation	10°
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Articulation Angle	42.5°
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## Tires

Tire Size	17.5 × R25
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## Service Refill Capacities

Engine Crankcase - With Filter	25 l
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Transmission	45 l
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Hydraulic Tank	88 l
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Cooling System	67 l
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Front Differential and Final Drives	38 l
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Rear Differential and Final Drives

42 l

Fuel Tank

295 l

## Standards

Standards

ROPS/FOPS Certified Cab

## R1300G Standard Equipment

### ELECTRICAL

Alternator, 75-amp

Receptacle group, auxiliary start

Battery Disconnect Switch, Ground Level

Starter, electric, 24-volt

Diagnostic Connector

Engine Shutdown Switch

Lighting:

- External, front, rear

- Stop, single

Batteries, low maintenance

Alarm, reversing

Starting and Charging System

### TIRES, RIMS, AND WHEELS

Rims:

- Tubeless, set of four

Tires must be selected from the Mandatory Attachments section, choose between:

- Tire, 17.5 × R25 VSMS L5S Bridgestone

- Tire, 17.5 × R25, VSDL Bridgestone

### OPERATOR ENVIRONMENT

Caterpillar Electronic Monitoring System (CEMS), (dash instrument panels)

Horns, electric

Instrumentation/gauges:

- Speedometer/tachometer

- Fuel level

- Hydraulic oil temperature

- Engine coolant temperature

Light, warning, residual brake

Pilot Hydraulic Implement Controls, Single Joystick

Cab, ROPS and/or FOPS certified

Steering and Transmission Integrated Control (STIC™) Steering

Seat, Suspension Tee with retractable seat belt

## **POWER TRAIN**

Engine:

- Cat 3306B six cylinder, diesel
- DITA (Direct Injection, Turbocharged, Aftercooled)

Precleaner, engine air intake

Fuel Priming Aid

Brakes, full hydraulic enclosed wet multiple-disc (SAFR)

Heat Shields

Torque Converter

Transmission Neutralizer

Transmission, automatic planetary power shift (4F/4R)

## **OTHER STANDARD EQUIPMENT**

Guards, engine and transmission

Bucket Dump (3.1 m<sup>3</sup>/4.1 yd<sup>3</sup>)

Catalytic Exhaust Purifier/Muffler

Cap, Radiator Manual Release

Decals, International Picto Graphics

Service oil sample

Fenders, Front, Rear

Firewall

Handholds

Hydraulic Oil Cooler, Swing Out

Valve, drain, transmission oil filter

Protection bars, rear frame

Radiator Grill, Swing Out

## **R1300G Optional Equipment**

## **TIRES, RIMS, AND WHEELS**

Rims:

- Tube, set of four
- Spare (Tube or Tubeless)
- Rim Identification Numbering

## **OPTIONAL EQUIPMENT**

After-Treatment Options

- DPF (Flow Through)

Brake Release Arrangements, Includes Steering Release

- Recovery Hook
- Recovery Bar

Bucket:

- Cutting Edge, Bolt-On
- Cutting Edge, Cat Weld On
- 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>, 2.8 m<sup>3</sup>/3.7 yd<sup>3</sup>, 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

Covers:

- Guard, for lift arm and front frame lights
- Rear Grill (Additional Bolt-On Guard)

Draw Bar Attachment, Bolt-On

Fast Fill System:

- Coolant
- Engine Oil
- Fuel
- Hydraulic Oil
- Transmission Oil

Fluids

- Arctic Fuel
- Arctic Coolant

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

Reflective Tape

Remote Control Interface (excludes Transmitter and Receiver), Includes Warning Lights (Green)

- Cattron
- RCT

Reversible Steering

Ride Control System

## Rim

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

## 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

## **OPERATOR ENVIRONMENT**

### Operator's 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

### Instrumentation/gauges:

- Brake pressures

### Secondary Steering System

## **POWER TRAIN**

### Engine:

- After-Treatment Options - DPF (Flow Through)

### Reversible Steering

### Park Brake Automatic Activation

### Park Brake Switch Engagement - Push to Apply/Pull to Apply

### Radiator, High Efficiency