

Product Specifications For 308 CR VAB



Engine

Net Power	51.2 kW
Engine Model	Cat® C2.8 Turbo
Net Power - 2,400 rpm - ISO 9249, 80/1269/EEC	51.2 kW
Gross Power - ISO 14396	55.4 kW
Bore	90 mm
Stroke	110 mm
Displacement	2.8 l
Note	Meets U.S. EPA Tier 4 Final and EU Stage V emissions standards.
Note (1)	Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,400 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.

Weights

Operating Weight	9560 kg
Minimum Operating Weight with Standard Stick*	8720 kg
Maximum Operating Weight with Standard Stick**	9560 kg

Note (1)	*Minimum Weight is based on rubber tracks, no counterweight, operator, full fuel tank, blade, and no bucket.
Note (2)	**Maximum Weight is based on steel tracks with rubber pads, (500 kg/1,103 lb) counterweight, operator, full fuel tank, blade, and no bucket.

Dimensions - VAB In

Dig Depth	3815 mm
Vertical Wall	2520 mm
Maximum Reach at Ground Level	6300 mm
Maximum Reach	6515 mm
Maximum Dig Height	5220 mm
Maximum Dump Clearance	3450 mm
Boom in Reach	3120 mm
Tail Swing with Counterweight	1585 mm
Tail Swing without Counterweight	1450 mm
Maximum Blade Height	370 mm
Maximum Blade Depth	407 mm
Cab Height	2541 mm
Swing Bearing Height	756 mm
Overall Undercarriage Length	2880 mm
Overall Shipping Length	6450 mm

Boom Swing Right	935 mm
Boom Swing Left	605 mm
Track Belt/Shoe Width	450 mm
Overall Track Width	2300 mm
Ground Clearance	350 mm
Stick Length	1820 mm

Dimensions - VAB Out

Dig Depth	3460 mm
Vertical Wall	3725 mm
Maximum Reach at Ground Level	7715 mm
Maximum Reach	7885 mm
Maximum Dig Height	8180 mm
Maximum Dump Clearance	6285 mm
Boom in Reach	2710 mm
Tail Swing with Counterweight	1585 mm
Tail Swing without Counterweight	1450 mm
Maximum Blade Height	370 mm
Maximum Blade Depth	407 mm
Cab Height	2541 mm

Swing Bearing Height	756 mm
Overall Undercarriage Length	2880 mm
Overall Shipping Length	6450 mm
Boom Swing Right	935 mm
Boom Swing Left	605 mm
Track Belt/Shoe Width	450 mm
Overall Track Width	2300 mm
Ground Clearance	350 mm
Stick Length	1820 mm

Weight Increase From Minimum Configuration

Counterweight	250 kg
Steel Tracks with Pads	341 kg

Travel System

Travel Speed - High	5.1 km/h
Travel Speed - Low	3.1 km/h
Maximum Traction Force - High Speed	27.8 kN
Maximum Traction Force - Low Speed	67.5 kN
Ground Pressure - Minimum Weight	38.2 kPa
Ground Pressure - Maximum Weight	41.8 kPa
Gradeability - Maximum	30 degrees

Service Refill Capacities

Cooling System	10 l
Engine Oil	8.8 l
Fuel Tank	147 l
Hydraulic Tank	53 l
Hydraulic System	110 l

Hydraulic System

Type	Load Sensing Hydraulics with Variable Displacement Piston Pump
Pump Flow at 2,400 rpm	167 L/min
Operating Pressure - Equipment	285 bar
Operating Pressure - Travel	285 bar
Operating Pressure - Swing	250 bar
Maximum Auxiliary Circuit - Primary - Flow at Pump	131 L/min
Maximum Auxiliary Circuit - Primary - Pressure at Pump	285 bar
Maximum Auxiliary Circuit - Secondary - Flow at Pump	33 L/min
Maximum Auxiliary Circuit - Secondary - Pressure at Pump	285 bar
Digging Force - Stick - Standard	42.3 kN
Digging Force - Bucket	62 kN

Note	Flow and pressure are not combinable. Under load, as flow rises pressure goes down.
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Swing System

Machine Swing Speed	10.6 r/min
Boom Swing - Left	60 degrees
Boom Swing - Right	50 degrees

Blade

Width - Standard	2300 mm
Width - Wide	2450 mm
Height	431 mm

Certification - Cab And Canopy

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Top Guard	ISO 10262:1998 (Level I)

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf (Europe) (Global Warming Potential = 1430). See label or instruction manual for gas refrigerant identification. The system contains 0.75 kg (1.65 lb), 0.90 kg (1.98 lb) or 1 kg (2.20 lb) of refrigerant which has a CO2 equivalent of 1.430 metric tonnes (1.576 tons) for R134a and 0.001 tonnes (0.001 tons) for R1234yf (Europe).
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Sound

Operator Sound Pressure (ISO 6396:2008)	72 dB(A)
Average Exterior Sound Pressure (ISO 6395:2008)	99 dB(A)
Note	European Union Directive "2000/14/EC"

Sustainability

Recyclability

96%

308 CR VAB Standard Equipment

ENGINE

Cat C2.8 Turbo Diesel Engine (U.S. EPA Tier 4 Final/EU Stage V) - Electronic Engine, Turbo, Fit-For-Life Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC) Aftertreatment System

Automatic Engine Idle

Automatic Engine Shutdown

Automatic Swing Brake

Automatic Two Speed Travel

Fuel Water Separator with Indicator

Radial Seal – Double Element Air Filter

Extended Life Coolant, -37° C (-35° F)

Ecology Drain

HYDRAULICS

Smart Tech Electronic Pump

Electronic Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

Power On Demand

Hydraulic Temperature Monitoring

Certified Accumulator

HYDO Advanced Hydraulic Oil

OPERATOR ENVIRONMENT

Sealed and Pressurized Cab

Stick Steer Mode

Travel Cruise Control

Control Pattern Changer

Adjustable Wrist Rests

Molded Footrests

Removable, Washable Floor Mat

Travel Pedals and Hand Levers

Cat Key with Passcode Option

HVAC with Automatic Temperature Control

Hydraulic Lockout Controls

Integrated Lower Front Window

Assisted Front Window Overhead Storage

Rear Window Emergency Exit

Cab Mirrors (vary by region)

Fabric, High Back, Suspension Seat

Retractable Seat Belt (75 mm/3 in)

Coat Hook
Cup Holder
LED Interior Light
Literature Holder
Mounting Bosses for Top and Front Guards
12V Power Socket
Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)
Skylight
Signaling/Warning Horn
Cab and (left side) Boom Work Lights
Utility Space for Mobile Phone
Next Generation Color LCD Monitor (IP66)
– Jog Dial Interface
– Fuel Level and Coolant Temperature Gauges
– Maintenance and Machine Monitoring
– Performance and Machine Adjustments
– Numeric Security Code
– Multiple Languages
– Camera Ready (IP68 & IP69K)
– Hour Meter with Wake Up Switch

UNDERCARRIAGE

Greased and Lubricated Track
Hydraulic Track Adjusters
Tie Down Eyes on Track Frame
Dozer Blade
Dozer Float

TECHNOLOGY

Product Link™ Elite (regulations apply)

BOOM, STICK AND LINKAGES

Variable Angle Boom
Standard Stick (1820 mm/71.7 in)
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler (not available in all regions)
Thumb Ready (not available in all regions)

ELECTRICAL

12 Volt Electrical System
60 Ampere Alternator
Circuit Breaker
900 CCA Maintenance Free Battery
Lock Out/Tag Out Battery Disconnect
Ignition Key Stop Switch
Rear Camera

GUARDING

ROPS ISO 12117-2:2008

Top Guard ISO 10262 1998 (Level I)

OTHER

Locks on External Enclosure Doors

Lockable Fuel Cap

Beacon Socket

Rear Reflectors

308 CR VAB Optional Equipment

HYDRAULICS

Third Auxiliary

OPERATOR ENVIRONMENT

Push to Start with Bluetooth® Key

Air Suspension Heated Seat

Seat Belt Reminder System

Rain Visor

Next Generation Advanced Monitor (below are all included with Next Generation Advanced Monitor option)

- Touch Screen
- Site Reference System
- High Definition Camera Capable (IP68 & IP69K)
- Numeric Security Code

TECHNOLOGY

Ease of Use Indicate

Ease of Use E-Fence

Ease of Use Laser Catcher

Cat Grade Advanced 2D

Cat Grade 3D

UNDERCARRIAGE

Wide Dozer Blade

Steel Tracks (450 mm/17.7 in wide)

Wide Steel Tracks (600 mm/23.6 in)

Steel Track with Rubber Pads

Track Guides

BOOM, STICK AND LINKAGES

Boom Lowering Check Valve

Stick Lowering Check Valve
Attachments including Buckets, Augers and Hammers
2nd Auxiliary Hydraulic Lines
Certified Lifting Eye

ELECTRICAL

Travel Alarm
Rear and Side Camera
Rotating Beacon

GUARDING

Top Guard ISO 10262:1998 (Level II)
Front Guard (Mesh) ISO:10262 1998 (Level I)
Front Guard (Heavy Duty) ISO 10262 1998 (Level II)
Track Guards

OTHER

Counterweight (250 kg/551 lb)
Counterweight (500 kg/1103 lb)
Refueling Pump
Water Jacket Heater