

Product Specifications For 308 CR



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	9420 kg
Minimum Operating Weight with Cab*	8505 kg
Maximum Operating Weight with Cab**	9420 kg

Note (1)

*Minimum Weight is based on rubber tracks, no counterweight, operator, full fuel tank, standard stick, 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, long stick, blade and no bucket.

Dimensions - Long Stick

Dig Depth 4643 mm

Vertical Wall 3404 mm

Maximum Reach - Ground Level 7460 mm

Maximum Reach 7637 mm

Maximum Dig Height 7039 mm

Maximum Dump Clearance 5072 mm

Boom In Reach 3215 mm

Tail Swing with Counterweight 1585 mm

Tail Swing without Counterweight 1450 mm

Maximum Blade Height 370 mm

Maximum Blade Depth 407 mm

Height - Boom Transport - No Tools* 2260 mm

Height - Boom Working - With Tools** 3050 mm

Cab Height 2541 mm

Swing Bearing - Height	756 mm
O/A Undercarriage Length	2880 mm
Overall Shipping Length - with Counterweight	6872 mm (270.6 in)***
Overall Shipping Length - without Counterweight	6872 mm (270.6 in)***
Boom Swing - Right	935 mm
Boom Swing - Left	604 mm
Track Belt/Shoe Width	450 mm
O/A Track Width	2300 mm
Ground Clearance	350 mm
Stick Length	2358 mm
Note	*Boom Height when stick is pinned in transport position with no attachments.
Note (1)	**Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.
Note (2)	***With blade positioned at the rear of the machine.

Dimensions - Standard Stick

Dig Depth	4108 mm
Vertical Wall	2991 mm
Maximum Reach - Ground Level	6949 mm
Maximum Reach	7141 mm

Maximum Dig Height	6736 mm
Maximum Dump Clearance	4760 mm
Boom In Reach	3059 mm
Tail Swing with Counterweight	1585 mm
Tail Swing without Counterweight	1450 mm
Maximum Blade Height	370 mm
Maximum Blade Depth	407 mm
Height - Boom Transport - No Tools*	2430 mm
Height - Boom Working - With Tools**	2660 mm
Cab Height	2541 mm
Swing Bearing - Height	756 mm
O/A Undercarriage Length	2880 mm
Overall Shipping Length - with Counterweight	6706 mm
Overall Shipping Length - without Counterweight	6574 mm
Boom Swing - Right	935 mm
Boom Swing - Left	604 mm
Track Belt/Shoe Width	450 mm

O/A Track Width	2300 mm
Ground Clearance	350 mm
Stick Length	1820 mm
Note	*Boom Height when stick is pinned in transport position with no attachments.
Note (1)	**Boom Height when stick is pinned in working position with attachments. Standard Stick offers only one pin position.
Note (2)	***With blade positioned at the rear of the machine.

Weight Increase From Minimum Configuration

Counterweight	250 kg
Counterweight (extra)	500 kg
Long Stick	66 kg
Steel Tracks with Pads	341 kg
Angle Blade	222 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	37.2 kPa
Ground Pressure - Maximum Weight	41.2 kPa

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 - Stick - Long	35.7 kN
-------------------------------------	---------

Digging Force - Bucket	62 kN
-------------------------------	-------

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

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
---------------	--------

Angle Blade Width	2300 mm
--------------------------	---------

Angle Blade Height	441 mm
---------------------------	--------

Angle Blade - Left	25 degrees
---------------------------	------------

Angle Blade - Right	25 degrees
----------------------------	------------

Certification - Cab

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).

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 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

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 Idle

Automatic Engine Shutdown

Automatic Engine Shutdown

Automatic Swing Brake

Automatic Swing Brake

Automatic Two Speed Travel

Automatic Two Speed Travel

Fuel Water Separator with Indicator

Fuel Water Separator with Indicator

Radial Seal – Double Element Air Filter

Radial Seal – Double Element Air Filter

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

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

HYDRAULICS

Electronic Variable Displacement Piston Pump

Load Sensing/Flow Sharing Hydraulics

Electronic Variable Displacement Piston Pump
Power On Demand
Load Sensing/Flow Sharing Hydraulics
Hydraulic Temperature Monitoring
Power On Demand
Certified Accumulator
Hydraulic Temperature Monitoring
HYDO Advanced Hydraulic Oil
Certified Accumulator
HYDO Advanced Hydraulic Oil

OPERATOR ENVIRONMENT

Stick Steer Mode
Travel Cruise Control
Top Guard ISO 10262 1998 Level I
Control Pattern Changer
ROPS ISO 12117-2:2008
Adjustable Wrist Rests
Stick Steer Mode
Molded Footrests
Travel Cruise Control
Removable, Washable Floor Mat
Control Pattern Changer
Travel Pedals and Hand Levers
Adjustable Wrist Rests
Cat Key with Passcode Option
Molded Footrests
HVAC with Automatic Temperature Control
Removable, Washable Floor Mat
Hydraulic Lockout Controls
Travel Pedals and Hand Levers
Integrated Lower Front Window
Cat Key with Passcode Option
Assisted Front Window Overhead Storage
HVAC with Automatic Temperature Control
Rear Window Emergency Exit
Hydraulic Lockout Controls
Fabric, High Back, Suspension Seat
Integrated Lower Front Window
Retractable Seat Belt (75 mm/3 in)
Assisted Front Window Overhead Storage
Coat Hook
Rear Window Emergency Exit
Cup Holder
Fabric, High Back, Suspension Seat
LED Interior Light
Retractable Seat Belt (75 mm/3 in)
Literature Holder

Coat Hook
Mounting Bosses for Top and Front Guards
Cup Holder
12V Power Socket
LED Interior Light
Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)
Literature Holder
Skylight
Mounting Bosses for Top and Front Guards
Signaling/Warning Horn
12V Power Socket
Cab and (left side) Boom Work Lights
Radio – Bluetooth, Auxiliary, Microphone, USB (charging only)
Utility Space for Mobile Phone
Skylight
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
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

TECHNOLOGY

Product Link™ Elite (regulations apply)

UNDERCARRIAGE

Greased and Lubricated Track
Tie Down Eyes on Track Frame
Dozer Blade
Dozer Float
Greased and Lubricated Track
Bolt-on, Reversible Wear Edge

Tie Down Eyes on Track Frame
Dozer Blade
Dozer Float
Bolt-on, Reversible Wear Edge

BOOM, STICK AND LINKAGES

One Piece Boom (3400 mm/133.9 in)
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)
One Piece Boom (3400 mm/133.9 in)
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)

GUARDING

ROPS ISO 12117-2:2008
Top Guard ISO 10262 1998 (Level I)

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

OTHER

Locks on External Enclosure Doors
Lockable Fuel Cap
Beacon Socket
Rear Reflectors
Locks on External Enclosure Doors
Lockable Fuel Cap
Beacon Socket
Rear Reflectors

308 CR Optional Equipment

OPERATOR ENVIRONMENT

Push to Start with Bluetooth® Key

Push to Start with Bluetooth® Key

Air Suspension Heated Seat

Air Suspension Heated Seat

Rain Visor

Seat Belt Reminder System

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

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

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

Wide Dozer Blade

Dozer Angle Blade

Steel Tracks (450 mm/17.7 in wide)

Wide Steel Tracks (600 mm/23.6 in)

Steel Track with Rubber Pads

Track Guides

Dozer Angle Blade

BOOM, STICK AND LINKAGES

Long Stick (2360 mm/92.9 in)

Attachments including Buckets, Augers and Hammers

2nd Auxiliary Hydraulic Lines

Boom Lowering Check Valve

Stick Lowering Check Valve

Certified Lifting Eye

Long Stick (2360 mm/92.9 in)

Attachments including Buckets, Augers and Hammers

2nd Auxiliary Hydraulic Lines

Boom Lowering Check Valve (Standard in Europe)

Stick Lowering Check Valve (Standard in Europe)
Certified Lifting Eye

ELECTRICAL

Product Link™ Elite (regulations apply)
Travel Alarm
Rearview Camera
Rotating Beacon
Travel Alarm
Rearview Camera
Rotating Beacon

GUARDING

Mesh Front Guard ISO 10262 1998 Level I
Heavy Duty Front Guard ISO 10262 1998 Level II
Overhead Cab Guard ISO 10262 1998 Level II
Top Guard 10262 1998 (Level II)
Polycarbonate Front Window EN356 P5A
Front Guard (Mesh) ISO 10262 1998 (Level I)
Track Guards
Front Guard (Heavy Duty) ISO 10262 1998 (Level II)
Track Guards

OTHER

Additional Counterweight
Counterweight (250 kg/551 lb)
Water Jacket Heater
Counterweight (500 kg/1103 lb)
Refueling Pump
Water Jacket Heater
Variable Angle Boom (refer to 308 CR VAB brochure for VAB specs and additional information)
Refueling Pump
Variable Angle Boom (refer to 308 CR VAB brochure for VAB specs and additional information)

TECHNOLOGY

Ease of Use Indicate
Ease of Use E-Fence
Ease of Use Laser Catcher
Cat Grade Advanced 2D
Cat Grade 3D
Ease of Use Indicate
Ease of Use E-Fence
Cat Grade Advanced 2D
Cat Grade 3D
Product Link Elite (regulations apply)

HYDRAULICS

Third Auxiliary

Third Auxiliary