

# Product Specifications For 313



## Engine

<b>Net Power - ISO 9249</b>	108 hp
<b>Net Power - ISO 9249 (DIN)</b>	110 hp (metric)
<b>Engine Model</b>	Cat C3.6
<b>Engine Power - ISO 14396</b>	110 hp
<b>Engine Power - ISO 14396 (DIN)</b>	111 hp (metric)
<b>Bore</b>	4 in
<b>Stroke</b>	5 in
<b>Displacement</b>	220 in <sup>3</sup>
<b>Biodiesel Capability</b>	Up to B20 <sup>1</sup>
<b>Emissions</b>	Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 emission standards.
<b>Note (1)</b>	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air intake system, exhaust system and alternator with engine speed at 2,400 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.

**Note (2)**                    <sup>1</sup>Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels\*\* up to: 20% biodiesel FAME (fatty acid methyl ester)\* or 100% renewable diesel, HVO (hydrotreated vegetable oil) and GTL (gas-to-liquid) fuels. Refer to guidelines for successful application. Please consult your Cat dealer or “Caterpillar Machine Fluids Recommendations” (SEBU6250) for details. \* Engines with no aftertreatment devices can use higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).\*\* Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels.

## Hydraulic System

Main System - Maximum Flow	247 L/min (65 gal/min)
Maximum Pressure - Equipment	5075 psi
Maximum Pressure - Travel	5075 psi
Maximum Pressure - Swing	3770 psi

## Swing Mechanism

Swing Speed	11.5 r/min
Maximum Swing Torque	25741 lbf·ft

## Weights

Operating Weight	30400 lb
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## Service Refill Capacities

Fuel Tank Capacity	68.2 gal (US)
Cooling System	4 gal (US)
Engine Oil	2.1 gal (US)
Final Drive - Each	0.8 gal (US)
Hydraulic System - Including Tank	22.5 gal (US)

Hydraulic Tank	18.5 gal (US)
DEF Tank	5.6 gal (US)

## Dimensions

Boom	Reach 4.65 m (15'3")
Stick	Reach R3 m (9'10")
Bucket	GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> )
Shipping Height - Top of Cab	9.3 ft
Handrail Height	9.3 ft
Shipping Length	25.5 ft
Shipping Length - with Blade	26.4 ft
Tail Swing Radius	7.2 ft
Counterweight Clearance	3 ft
Ground Clearance	1.5 ft
Track Length	12.3 ft
Length to Center of Rollers	10 ft
Track Gauge	6.5 ft
Transport Width	8.2 ft

## Working Ranges And Forces

Maximum Digging Depth	19.2 ft
Boom	Reach 4.65 m (15'3")

<b>Stick</b>	Reach R3 m (9'10")
<b>Bucket</b>	GD 0.53 m <sup>3</sup> (0.69 yd <sup>3</sup> )
<b>Maximum Reach at Ground Level</b>	28.4 ft
<b>Maximum Cutting Height</b>	29 ft
<b>Maximum Loading Height</b>	21.1 ft
<b>Minimum Loading Height</b>	5.3 ft
<b>Maximum Depth Cut for 2440 mm (8 ft) Level Bottom</b>	19.3 ft
<b>Maximum Vertical Wall Digging Depth</b>	17 ft
<b>Minimum Working Equipment Radius</b>	8.4 ft
<b>Bucket Digging Force - ISO</b>	22180 lbf
<b>Stick Digging Force - ISO</b>	13330 lbf

## Air Conditioning System

<b>Air Conditioning</b>	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.85 hg of refrigerant which has a CO2 equivalent of 1.216 metric tonnes.
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## Sustainability

<b>Recyclability</b>	95%
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## 313 Standard Equipment

### NOTE

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

### BOOM AND STICKS

4.65 m (15'3") Reach boom

## **CAB**

Rollover protective structure (ROPS)

## **CAT TECHNOLOGIES**

VisionLink

VisionLink Productivity

Remote Flash

Remote Troubleshoot

Cat Grade with 2D

Cat Assist

Cat Payload

Cat Advanced Payload

## **ELECTRICAL SYSTEM**

Maintenance free battery

LED chassis light, left-side/right-side boom lights, cab lights

Centralized electrical disconnect switch

Programmable time-delay LED working lights

## **ENGINE**

Cat C3.6 single turbo diesel engine

One-touch low idle with auto engine speed control

Auto engine shutdown

52°C (125°F) high-ambient cooling capacity without de-rate

Electric fuel priming pump

Variable speed fan

Single fuel filtration system

Double element air filter with integrated precleaner

Biodiesel capability up to B20

## **HYDRAULIC SYSTEM**

Boom and stick regeneration circuit

Auto hydraulic warm up

Auto two speed travel

Electric main control valve

Boom and stick drift reduction valve

Swing drive with fine swing control function

## **SAFETY AND SECURITY**

Rear and right-side-view cameras

Hydraulic lock out lever

Ground-level engine shutoff switch

Service platform with anti-skid plate and countersunk bolts

Signaling/warning horn

2D E-Fence

## **SERVICE AND MAINTENANCE**

Grouped engine oil and fuel filters

Ground-level engine oil dipstick

Sampling ports for Scheduled Oil Sampling (S·O·S)

Integrated vehicle health management system

## **UNDERCARRIAGE AND STRUCTURES**

Long undercarriage

Grease lubricated track link

Tie down points on base frame

2470 kg (5,445 lb) counterweight

## **313 Optional Equipment**

### **NOTE**

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

## **BOOM AND STICKS**

2.8 m (9'2") Thumb Ready stick

2.8 m (9'2") Reach stick

3.0 m (9'10") Reach stick

## **CAB**

Operator Protective Guards (OPG)

Deluxe Cab: air suspension heated seat, 10" touch screen monitor

Premium Cab: air suspension heated and cooled seat, 10" touch screen monitor

Cat Stick Steer

Auxiliary relay

## **CAT TECHNOLOGIES**

Cat Grade with Advanced 2D

Cat Grade with 3D (single or dual GNSS)

Operator Coaching

## **ELECTRICAL SYSTEM**

360° lighting

## **ENGINE**

-25°C (-13°F) cold start capability

## **HYDRAULIC SYSTEM**

Boom and stick lowering check valves  
Medium-pressure line  
High-pressure line  
Quick coupler line

## **SAFETY AND SECURITY**

Cat Detect - People Detection  
Cat Command remote control  
360° visibility  
Swing alarm  
Inspection lighting

## **UNDERCARRIAGE AND STRUCTURES**

500 mm (20") triple grouser shoes  
500 mm (20") rubber track shoes  
500 mm (20") triple grouser shoes with rubber pad  
600 mm (24") triple grouser shoes  
600 mm (24") rubber track shoes  
700 mm (28") triple grouser shoes  
770 mm (30") triple grouser shoes  
2500 mm (8'2") blade  
2600 mm (8'6") blade  
2700 mm (8'10") blade