

Product Specifications For 313



Engine

Net Power - ISO 9249	108 hp
Net Power - ISO 9249 (DIN)	110 hp (metric)
Engine Model	Cat C3.6
Engine Power - ISO 14396	110 hp
Engine Power - ISO 14396 (DIN)	111 hp (metric)
Bore	4 in
Stroke	5 in
Displacement	220 in ³
Biodiesel Capability	Up to B20 ¹
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 emission standards.
Note (1)	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) ¹Cat 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.

Weights

Operating Weight	30400 lb
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Working Ranges And Forces

Maximum Digging Depth	19.2 ft
Boom	Reach 4.65 m (15'3")
Stick	Reach R3 m (9'10")
Bucket	GD 0.53 m³ (0.69 yd³)
Maximum Reach at Ground Level	28.4 ft
Maximum Cutting Height	29 ft
Maximum Loading Height	21.1 ft
Minimum Loading Height	5.3 ft
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	19.3 ft
Maximum Vertical Wall Digging Depth	17 ft
Minimum Working Equipment Radius	8.4 ft
Bucket Digging Force - ISO	22180 lbf

Stick Digging Force - ISO

13330 lbf

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

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 ³ (0.69 yd ³)
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

Air Conditioning System

Air Conditioning	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

Recyclability	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