

Product Specifications For 323 - Tier 4 / Stage V



Engine

Net Power - ISO 9249	172 hp
Net Power - ISO 9249 (DIN)	175 hp (metric)
Engine Model	Cat® C7.1
Engine Power - ISO 14396	174 hp
Engine Power - ISO 14396 (DIN)	176 hp (metric)
Bore	4 in
Stroke	5 in
Displacement	428 in ³
Biodiesel Capability	Up to B20 ¹
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, and 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 2,200 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

55,100 lb

Note

Long undercarriage, Reach boom, R2.9 (9'6"), Reach stick, Heavy Duty (HD) 1.38 m³ (1.81 yd³) bucket, 790 mm (31") HD triple grouser track shoes and 5,400 kg (11,900 lb) counterweight.

Working Ranges And Forces

Maximum Digging Depth

22.1 ft

Boom

Reach 5.7 m (18'8")

Stick

Reach 2.9 m (9'6")

Bucket

HD 1.30 m³ (1.71 yd³)

Maximum Reach at Ground Level

32.4 ft

Maximum Cutting Height

31 ft

Maximum Loading Height

21.3 ft

Minimum Loading Height

7.1 ft

Maximum Depth Cut for 2440 mm (8 ft) Level Bottom

21.5 ft

Maximum Vertical Wall Digging Depth

18.8 ft

Bucket Digging Force - ISO	34308 lbf
Stick Digging Force - ISO	26094 lbf

Hydraulic System

Main System - Maximum Flow	429 l/min (113 gal/min)
Maximum Pressure - Equipment	5075 psi
Maximum Pressure - Equipment - Lift Mode	5510 psi
Maximum Pressure - Travel	4974 psi
Maximum Pressure - Swing	3988 psi

Swing Mechanism

Swing Speed	11.25 r/min
Note (1)	For CE-marked machine default value may be set lower.
Maximum Swing Torque	60300 lbf·ft

Service Refill Capacities

Fuel Tank Capacity	86.6 gal (US)
Cooling System	6.6 gal (US)
Engine Oil	6.6 gal (US)
Swing Drive	1.6 gal (US)
Final Drive - Each	1.3 gal (US)
Hydraulic System - Including Tank	61.8 gal (US)
Hydraulic Tank	30.4 gal (US)

DEF Tank	10.8 gal (US)
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Dimensions

Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	HD 1.30 m³ (1.71 yd³)
Shipping Height - Top of Cab	9.7 ft
Handrail Height	9.7 ft
Shipping Length	31.3 ft
Tail Swing Radius	9.3 ft
Counterweight Clearance	3.4 ft
Ground Clearance	1.5 ft
Track Length	14.6 ft
Length to Center of Rollers	12 ft
Track Gauge	7.8 ft
Transport Width	10.4 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 kg (1.9 lb) of refrigerant which has a CO2 equivalent of 1.216 metric tonnes (1.340 tons).
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323 - Tier 4 / Stage V Standard Equipment

NOTE

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

CAB

Rollover Protective Structure (ROPS)

Air-adjustable seat with heat (Deluxe only)

Auto-adjustable seat with heat and air ventilation (Premium only)

High-resolution 254 mm (10 in) LCD touchscreen monitor

CAT TECHNOLOGY

VisionLink®

Remote Flash

Remote Troubleshoot

Work tool recognition and tracking (PL161)

Cat Grade with 2D

Cat Assist

Cat Payload

ELECTRICAL SYSTEM

Two 1,000 CCA maintenance-free batteries

Programmable time-delay LED working lights

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

ENGINE

Cat 7.1 single turbo diesel engine

Three selectable power modes

Automatic engine speed control

46°C (115°F) high-ambient cooling capacity (Europe only)

52°C (125°F) high-ambient cooling capacity

-18°C (0°F) cold start capability

Double element air filter with integrated precleaner

Reversing electric cooling fans

HYDRAULIC SYSTEM

Boom and stick regeneration circuits

Auto hydraulic warm up

Auto two-speed travel

Boom and stick drift reduction valve

Auto dig boost

Auto heavy lift

SAFETY AND SECURITY

2D E-Fence

Auto hammer stop

Rearview camera

Right-side-view camera

Lockable disconnect switch
Ground-level engine shutoff switch
Right-hand handrail and handhold
Signaling/warning horn

SERVICE AND MAINTENANCE

Sampling ports for Scheduled Oil Sampling (S·O·SSM)
Ground-level and platform-level engine oil dipsticks
Integrated vehicle health management system

UNDERCARRIAGE AND STRUCTURES

Long undercarriage
Tie-down points on base frame

323 - Tier 4 / Stage V Optional Equipment

NOTE

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

BOOMS AND STICKS

5.7 m (18'8") Reach boom
5.7 m (18'8") HD Reach boom
2.7 m (8'10") stub + 3.3 m (10'10") fore, Variable Angle boom
8.85 m (29'0") Super Long Reach boom
2.5 m (8'2") Reach stick
2.9 m (9'6") Reach stick
2.5 m (8'2") HD Reach stick
2.9 m (9'6") HD Reach stick
3.9 m (12'10") Reach stick
2.9 m (9'6") HD Thumb Ready Reach stick
6.28 m (20'7") Super Long Reach stick

CAB

Operator Protective Guards (OPG)
Cat Stick Steer

CAT TECHNOLOGY

VisionLink Productivity
Operator Coaching
Cat Grade with 2D with Attachment Ready Option (ARO)
Cat Grade with 3D (single or dual GNSS)
Cat Grade 3D Ready
Cat Grade Connectivity
Cat Advanced Payload
Cat Tiltrotator (TRS) integration

ENGINE

-32°C (-25°F) cold start capability

HYDRAULIC SYSTEM

Boom and stick lowering check valves

SmartBoom™ (Europe only)

Hammer return filter circuit

Advanced tool control (two pump, one/two way high-pressure flow)

Hydraulic efficiency monitoring

Medium-pressure circuit

Quick coupler circuit for Cat Pin Grabber

SAFETY AND SECURITY

Cat Command (remote control)

360° visibility

Inspection lighting

UNDERCARRIAGE AND STRUCTURES

600 mm (24") single grouser shoes

600 mm (24") HD double grouser shoes

600 mm (24") HD triple grouser shoes

700 mm (28") HD triple grouser shoes

790 mm (31") HD triple grouser shoes

900 mm (35") HD triple grouser shoes