

Product Specifications For 323



Engine

Net Power - ISO 9249	128.5 kW
Net Power - ISO 9249 (DIN)	175 hp (metric)
Engine Model	Cat® C7.1
Engine Power - ISO 14396	129.4 kW
Engine Power - ISO 14396 (DIN)	176 hp (metric)
Bore	105 mm
Stroke	135 mm
Displacement	7.01 l
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) and are compatible* with 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. *While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels. ***Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Weights

Operating Weight 25000 kg

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 6730 mm

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 9870 mm

Maximum Cutting Height 9450 mm

Maximum Loading Height 6480 mm

Minimum Loading Height 2160 mm

Maximum Depth Cut for 2440 mm (8 ft) Level Bottom 6560 mm

Maximum Vertical Wall Digging Depth 5740 mm

Bucket Digging Force - ISO	140 kN
Stick Digging Force - ISO	107 kN

Hydraulic System

Main System - Maximum Flow	429 l/min (113 gal/min)
Maximum Pressure - Equipment	35000 kPa
Maximum Pressure - Equipment - Lift Mode	38000 kPa
Maximum Pressure - Travel	34300 kPa
Maximum Pressure - Swing	27500 kPa

Swing Mechanism

Swing Speed*	11.25 r/min
Maximum Swing Torque	82 kN·m
Note (1)	*For CE-marked machine default value may be set lower.

Service Refill Capacities

Fuel Tank Capacity	345 l
Cooling System	25 l
Engine Oil	25 l
Swing Drive	6 l
Final Drive - Each	5 l
Hydraulic System - Including Tank	234 l
Hydraulic Tank	115 l

DEF Tank	41 l
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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	2960 mm
Handrail Height	2950 mm
Shipping Length	9530 mm
Tail Swing Radius	2830 mm
Counterweight Clearance	1050 mm
Ground Clearance	470 mm
Track Length	4450 mm
Length to Center of Rollers	3650 mm
Track Gauge	2380 mm
Transport Width	3170 mm

Air Conditioning System

Air Conditioning	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a or R1234yf. See the label or instruction manual for identification of the gas. If equipped with 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). If equipped with R1234yf (Global Warming Potential = 0.5), the system contains 0.75 kg (1.7 lb) of refrigerant which has a CO2 equivalent of 0.001 metric tonnes (0.001 tons).
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323 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 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

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