

Product Specifications For 324



Engine

Net Power - ISO 9249	108 kW
Net Power - ISO 9249 (DIN)	147 hp (metric)
Engine Model	Cat® C7.1
Engine Power - ISO 14396	112 kW
Engine Power - ISO 14396 (DIN)	152 hp (metric)
Bore	105 mm
Stroke	135 mm
Displacement	7.1 l
Biodiesel Capability	Up to B20 ¹
Emissions	Meets UN ECE R96 Stage II emission standards, equivalent to U.S. EPA Tier 2 and EU Stage II.
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 1,700 rpm. Advertised power is tested per the specified standard in effect at the time of manufacture.
Note (2)	¹Cat® engines are compatible with diesel fuel blended with the following lower-carbon intensity fuels** up to: 100% 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” (SEBF6256) for 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	22700 kg
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Note	4.45 m (14'7") Long undercarriage, 5.7 m (18'8") Heavy Duty (HD) Reach boom, 2.5 m (8'2") HD Reach stick, 1.3 m³ (1.7 yd³) Severe Duty (SD) bucket, 600 mm (24") triple grouser track shoes and 4550 kg (10,030 lb) counterweight.
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Working Ranges And Forces

Maximum Digging Depth	6310 mm
Boom	HD Reach 5.7 m (18'8")
Stick	HD Reach 2.5 m (8'2")
Bucket	SD 1.3 m³ (1.7 yd³)
Maximum Reach at Ground Level	9470 mm
Maximum Cutting Height	9330 mm
Maximum Loading Height	6280 mm
Minimum Loading Height	2590 mm
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6120 mm
Maximum Vertical Wall Digging Depth	5620 mm
Bucket Digging Force - ISO	139 kN
Stick Digging Force - ISO	109 kN

Hydraulic System

Main System - Maximum Flow	416 l/min (106 gal/min)
Maximum Pressure - Equipment	35000 kPa
Maximum Pressure - Travel	35000 kPa
Maximum Pressure - Swing	25000 kPa

Swing Mechanism

Swing Speed	11.5 r/min
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Maximum Swing Torque	61 kN·m
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Service Refill Capacities

Fuel Tank Capacity	370 l
Cooling System	28 l
Engine Oil	18 l
Swing Drive - Each	6 l
Final Drive - Each	5 l
Hydraulic System - Including Tank	218 l
Hydraulic Tank	115 l

Dimensions

Boom	HD Reach 5.7 m (18'8")
Stick	HD Reach 2.5 m (8'2")
Bucket	SD 1.3 m³ (1.7 yd³)
Shipping Height - Top of Cab	3360 mm
Handrail Height	3020 mm
Shipping Length	9520 mm
Tail Swing Radius	2830 mm
Counterweight Clearance	1020 mm
Ground Clearance	440 mm
Track Length	4450 mm
Length to Center of Rollers	3650 mm

Track Gauge

2380 mm

Transport Width

2980 mm

324 Standard Equipment

NOTE

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

BOOM, STICK AND LINKAGE

5.7 m (18'8") HD Reach boom

2.5 m (8'2") HD Reach stick

Bucket linkage, B1 family with lifting eye

CAB

Sound suppressed cab with viscous mounts

Mechanical-suspension seat with headrest and armrest angle adjustment

High-resolution 203 mm (8") LCD touchscreen monitor

Keyless push to start engine control

AM/FM Bluetooth® radio with USB/Auxiliary ports

Cup holder and storage compartments

Upper radial wiper with washer

Openable steel hatch

Washable floor mat

51 mm (2") orange seat belt

CAT TECHNOLOGY

VisionLink™

ELECTRICAL SYSTEM

Two 750 CCA maintenance free batteries

Centralized electrical disconnect switch

LED chassis and cab lights

LED left-side boom light

ENGINE

Cat C7.1 single turbo diesel engine

Three selectable modes: Power, Smart, Eco

One touch low idle with auto engine speed control (AEC)

Two stage fuel filtration system with water separator and indicator

4000 m (13,120 ft) altitude capability with derate from 3000 m (9,840 ft)

Up to 52° C (126° F) high-ambient cooling capacity with derate above 48° C (118° F)

Down to -10° C (14° F) cold start capability

75 Amp alternator

Radial sealed double element air filter

Electric fuel priming pump

HYDRAULIC SYSTEM

Electronic main control valve, hammer ready
Boom and stick regeneration circuits
Automatic hydraulic warm-up
Automatic two speed travel
High performance hydraulic return filter

SAFETY AND SECURITY

Rearview mirrors; handrail mounted (one), cab handhold mounted (one)
Bolt free service platform with anti-skid plate
Neutral lever (lock out) for all controls
Ground level accessible secondary engine shutoff switch in cab
Handrail and handhold
Signaling/warning horn

SERVICE AND MAINTENANCE

Grouped engine oil, fuel, and hydraulic oil filters
Sampling ports for Scheduled Oil Sampling (S.O.S)
Radiator screen for radiator/oil cooler to prevent plugging by debris

UNDERCARRIAGE AND STRUCTURES

4.45 m (14'7") Long undercarriage
Grease lubricated track links
Segmented track guiding guard
Full length track guiding guard
Bottom guard
4550 kg (10,030 lb) counterweight

324 Optional Equipment

NOTE

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

CAB

Rollover Protective Structure (ROPS)
Operator Protective Guards (OPG) with matching lights
Front windshield guard (wire mesh)

ELECTRICAL SYSTEM

LED right-side boom light

HYDRAULIC SYSTEM

Hydraulic auxiliary lines (hammer)

SAFETY AND SECURITY

Rearview camera

Travel alarm

UNDERCARRIAGE AND STRUCTURES

600 mm (24") triple grouser shoes (12 mm/0.5" thick)

790 mm (31") triple grouser shoes (10 mm/0.4" thick)