# PRODUCT SPECIFICATIONS FOR 320 - TIER 4 / STAGE V



# **ENGINE**

Net Power - ISO 9249	128.5 kW
Net Power - ISO 9249 (DIN)	175 hp (metric)
Engine Model	Cat C4.4
Engine Power - ISO 14396	129.4 kW
Engine Power - ISO 14396 (DIN)	176 hp (metric)
Bore	105 mm
Stroke	127 mm
Displacement	4.4
Biodiesel Capability	Up to B201
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.

### **HYDRAULIC SYSTEM**

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

## **SWING MECHANISM**

Maximum Swing Torque	82 kN·m
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### **WEIGHTS**

Note

Operating Weight	22600 kg		

Reach boom, R2.9 (9'6") stick, Heavy Duty (HD) 1.19 m <sup>3</sup> (1.56 yd<sup>3</sup>) bucket 790 mm (31") triple grouser shoes, 4200 kg (10,400 lb) counterweight.

### **SERVICE REFILL CAPACITIES**

Fuel Tank Capacity	345
Cooling System	25 I
Engine Oil	15 I
Swing Drive - Each	61

Final Drive - Each	4
Hydraulic System - Including Tank	234 I
Hydraulic Tank	115 I
DEF Tank	39 I
DIMENCIONO	

## **DIMENSIONS**

Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	1.19 m <sup>3</sup> (1.56 yd <sup>3</sup> )
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	2980 mm

# **WORKING RANGES & FORCES**

Maximum Digging Depth	6720 mm

Boom	Reach 5.7 m (18'8")
Stick	Reach 2.9 m (9'6")
Bucket	1.19 m ³ (1.56 yd³)
Maximum Reach at Ground Level	9860 mm
Maximum Cutting Height	9370 mm
Maximum Loading Height	6490 mm
Minimum Loading Height	2170 mm
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6550 mm
Maximum Vertical Wall Digging Depth	5190 mm
Bucket Digging Force - ISO	150 kN
Stick Digging Force - ISO	106 kN

### **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).

### **SUSTAINABILITY**

Recyclability 97%

# 320 - 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 inch) LCD touchscreen monitor

#### **CAT TECHNOLOGY**

VisionLink® Remote Flash Remote Troubleshoot Cat Grade 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 C4.4 twin turbo diesel engine
Three selectable power modes
Automatic engine speed control
52°C (126°F) ambient cooling capacity
-32°C (-25°F) cold start capability
Double element air filter with integrated precleaner
Reversing electric cooling fans

### **HYDRAULIC SYSTEM**

Boom and stick regeneration circuits
Auto warm up
Auto two-speed travel
Auto dig boost
Boom and stick drift reduction valve

#### **SAFETY AND SECURITY**

2D E-Fence
Auto hammer stop
Rearview and right-side-view cameras
Ground-level engine shutoff switch
Lockable disconnect switch
Right-hand handrail and hand hold
Signaling/warning horn

#### **SERVICE AND MAINTENANCE**

Scheduled Oil Sampling (S·O·S<sup>SM</sup>) ports Ground-level and platform-level engine oil dipsticks

#### **UNDERCARRIAGE AND STRUCTURES**

Tie-down points on base frame

## 320 - 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

2.8 m (9'2") Stub + 3.3 m (10'10") Fore, VA 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

2.9 m (9'6") HD Thumb Ready Reach stick

6.28 m (20'7") Super Long Reach stick

#### **CAB**

Cat Stick Steer Auxiliary relay

#### CAT TECHNOLOGY

VisionLink Productivity

Cat Grade Connectivity

Cat Grade 2D with Attachment Ready Option (ARO)

Cat Grade 3D single GNSS

Cat Grade 3D dual GNSS

Cat Tilt Rotator (TRS) Integration

**Operator Coaching** 

#### HYDRAULIC SYSTEM

Boom and stick lowering check valves

SmartBoom™ (Europe only)

Hammer return filter circuit

Hydraulic efficiency monitoring

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

Medium-pressure circuit

Quick coupler circuit for Cat pin grabber

#### SAFETY AND SECURITY

Cat Command (remote control) 360° visibility Swing alarm Inspection lighting

### **UNDERCARRIAGE AND STRUCTURES**

600 mm (24") triple grouser shoes 700 mm (28") triple grouser shoes 790 mm (31") triple grouser shoes 900 mm (35") triple grouser shoes 4200 kg (9,300 lb) counterweight 4700 kg (10,400 lb) counterweight