

Product Specifications For 352



Engine

Net Power - ISO 9249	302 kW
Net Power - ISO 9249 (DIN)	411 hp (metric)
Engine Model	Cat C13
Engine Power - ISO 14396	303 kW
Engine Power - ISO 14396 (DIN)	412 hp (metric)
Bore	130 mm
Stroke	157 mm
Displacement	12.5 l
Biodiesel Capability	Up to B20 ¹
Emissions	Meets UN ECE R96 Stage IIIA emission standards, equivalent to U.S. EPA Tier 3 and EU Stage IIIA.
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 1,800 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” (SEBU6250) for details. *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	52500 kg
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Working Ranges And Forces

Maximum Digging Depth	7140 mm
Boom	Mass Boom 6.55 m (21'6")
Stick	Mass Stick M3 m (9'10")
Bucket	SD 3.5 m ³ (4.58 yd ³)
Maximum Reach at Ground Level	11230 mm
Maximum Cutting Height	10450 mm
Maximum Loading Height	6910 mm
Minimum Loading Height	2740 mm
Maximum Depth Cut for 2440 mm (8 ft) Level Bottom	6990 mm
Maximum Vertical Wall Digging Depth	4520 mm
Bucket Digging Force - ISO	292 kN

Stick Digging Force - ISO	211 kN
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Hydraulic System

Main System - Maximum Flow	779 l/min (206 gal/min)
Maximum Pressure - Equipment	35000 kPa
Maximum Pressure - Equipment - Lift Mode	38000 kPa
Maximum Pressure - Travel	35000 kPa
Maximum Pressure - Swing	26000 kPa

Swing Mechanism

Maximum Swing Torque	189 kN·m
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Note (1)

*For CE-marked machine default value may be set lower

Service Refill Capacities

Fuel Tank Capacity	715 l
Cooling System	52 l
Engine Oil	40 l
Swing Drive	10.5 l
Final Drive - Each	9.5 l
Hydraulic System - Including Tank	550 l
Hydraulic Tank	217 l

Dimensions

Boom	Mass Boom 6.55 m (21'6")
Stick	Mass Stick M3 m (9'10")
Bucket	SD 3.5 m³ (4.58 yd³)

Shipping Height - Top of Cab	3230 mm
Handrail Height	3370 mm
Shipping Length	11600 mm
Tail Swing Radius	3760 mm
Counterweight Clearance	1435 mm
Ground Clearance	710 mm
Track Length	5350 mm
Track Length to Center of Rollers	4340 mm
Track Gauge	2390 mm
Transport Width	3020 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 1 kg (2.2 lb) of refrigerant which has a CO ₂ equivalent of 1.430 metric tonnes (1.576 tons). – If equipped with R1234yf (Global Warming Potential = 0.501), the system contains 0.85 kg (1.87 lb) of refrigerant which has a CO ₂ equivalent of 0.001 metric tonnes (0.001 tons).
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352 Standard Equipment

NOTE

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

CAB

High-resolution touchscreen monitor

Heated seat with air-adjustable suspension (Deluxe only)

CAT TECHNOLOGY

VisionLink™

Remote Flash

Remote Troubleshoot

Compatibility with radios and base stations from Trimble, Topcon, and Leica

Capability with 3D grade systems from Trimble, Topcon, and Leica

Cat Grade with 2D

Cat Assist (Grade, Boom, Bucket, Swing, Lift)

Cat Payload (On-the-go weighing, Semiautomatic calibration, Payload/cycle information, USB Reporting Capability)

Work tool recognition and tracking (Requires PL161 attachment locator on work tool and Bluetooth receiver on machine)

ELECTRICAL SYSTEM

Maintenance-free 1,000 CCA batteries (×4)

Centralized electrical disconnect switch

LED lights

Three selectable modes: Power, Smart, and Eco

Auto engine speed control

ENGINE

Up to 4500 m (14,760 ft) altitude capability with derate

52°C (126°F) high-ambient cooling

-18°C (0°F) cold start capability

Double element air filter with integrated pre-cleaner

Remote disable

Boom and stick regeneration circuit

Electronic main control valve

HYDRAULIC SYSTEM

Auto hydraulic oil warmup

Auto swing parking brake

High performance hydraulic return filter

Two-speed travel

Bio hydraulic oil capability

Caterpillar One Key security system

SAFETY AND SECURITY

Lockable external tool / storage box

Lockable door, fuel, and hydraulic tank locks

Lockable fuel drain compartment

Service platform with anti-skid plate & recessed bolts

Rear and right-hand-sideview cameras

Lockable disconnect switch

SERVICE AND MAINTENANCE

Integrated vehicle health management system

Grouped location of engine oil and fuel filters
Scheduled Oil Sampling (S·O·S) ports

UNDERCARRIAGE AND STRUCTURES

Towing eye on base frame

352 Optional Equipment

NOTE

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

BOOMS AND STICKS

6.9 m (22'8") Reach boom
6.55 m (21'6") Mass boom
3.9 m (12'10") Reach stick
3.35 m (11'0") Reach stick
3.0 m (9'10") Mass stick
2.9 m (9'6") Reach stick
2.5 m (8'2") Mass stick

CAB

Cat Stick Steer
Auxiliary relay

CAT TECHNOLOGY

VisionLink™ back office reporting
Cat Grade Connectivity
Cat Grade 2D with Attachment Ready Option (ARO)
Cat Grade with 3D (single or dual GNSS)
Cat Grade 3D Ready
GNSS antennae
Laser catcher
Cat Tilt Rotator (TRS) Integration
Operator Coaching
Advanced Payload (Daily totals, Custom lists, Smart weight target, E-ticket Integration)

ELECTRICAL SYSTEM

Premium surround lighting package

ENGINE

Cold start block heaters
-32°C (-25°F) cold start capability
Inlet air heater
Engine oil sensor

HYDRAULIC SYSTEM

Auto heavy lift
Combined two-way auxiliary circuit
Medium-pressure auxiliary circuit
Quick coupler circuit
Hydraulic efficiency monitoring

SAFETY AND SECURITY

Cat E-Fence
360° visibility
Inspection lighting

SERVICE AND MAINTENANCE

Electric refueling pump with auto shutoff

UNDERCARRIAGE AND STRUCTURES

Fixed gauge undercarriage
Variable gauge undercarriage
600 mm (24") double grouser track shoes
600 mm (24") HD double grouser track shoes
600 mm (24") triple grouser track shoes
600 mm (24") HD triple grouser track shoes