

Product Specifications For M314 - Tier 4 / Stage V



Engine

Engine Power - ISO 14396	134 hp
Engine Power - ISO 14396 (DIN)	136 hp (metric)
Engine Model	Cat® C3.6
Net Power - ISO 9249	127 hp
Net Power - ISO 9249 (DIN)	129 hp (metric)
Bore	3.9 in
Stroke	5 in
Displacement	221 in ³
Biodiesel Capability	Up to B20 ¹
Emissions	Meets U.S. EPA Tier 4 Final, EU Stage V, and Korea Stage V emission standards.
Note (1)	Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, Clean Emission Module (CEM) exhaust gas aftertreatment, alternator, and cooling fan running at intermediate speed. Rated speed 2,000 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.

Machine Weight

Operating Weight	39680 lb
Maximum	

Operating Weight	32190 lb
Minimum	

Note (1)

Operating weight includes full fuel tank, operator, 500 kg (1,102 lb) bucket and dual pneumatic tires. Weight varies depending on configuration. Typical configurations include a 2200 mm (7'3") stick and a 210 kg (463 lb) quick coupler.

Drive

Maximum Travel Speed	23 mile/h
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Hydraulic System

Main System - Maximum Flow - Implement	71.3 gal/min
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Maximum Pressure - Implement Circuit - Normal 5076 psi

Maximum Pressure - Implement Circuit - Heavy Lift	5366 psi
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Maximum Pressure - Implement Circuit - Travel Circuit 5076 psi

Swing Mechanism

Maximum Swing Speed*	9.1 r/min
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Maximum Swing Torque	30461 lbf·ft
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Note (1)

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

Service Refill Capacities

Fuel Tank	77.9 gal (US)
Diesel Exhaust Fluid (DEF)	5.3 gal (US)
Cooling System	5.3 gal (US)
Hydraulic Tank	23.8 gal (US)
Hydraulic System - Including Tank	58.1 gal (US)

Dimensions

Boom	Variable Adjustable Boom 5 m (16' 6")
Stick	2.2 m (7' 3")
Bucket	GD 0.76 m ³ (0.99 yd ³)
Shipping Height - Top of Cab	10.9 ft
Shipping Length	26.9 ft
Support Point	11.3 ft
Tail Swing Radius	7.1 ft
Counterweight Clearance	4.1 ft
Ground Clearance	1.1 ft
Undercarriage Length	16.1 ft
Wheel Base	8.2 ft

Working Ranges And Forces

Boom	Variable Adjustable Boom 5 m (16' 6")
Stick	2.2 m (7' 3")
Bucket	GD 0.76 m ³ (0.99 yd ³)
Digging Height	32.1 ft
Dump Height	23 ft
Maximum Digging Depth	17.4 ft
Maximum Vertical Wall Digging Depth	13.9 ft
Maximum Reach at Ground Line	28.4 ft
Stick Forces (ISO)	15961 lbf
Bucket Forces (ISO)	23605 lbf
Note (1)	Range values are calculated with a GD bucket (CW-S) and CW-20S-D.4.N quick coupler with a tip radius of 1387 mm (4'7"). Force values are calculated with heavy lift on, a GD bucket (pin-on) and a tip radius of 1224 mm (4'0").

Air Conditioning System

Note	The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.8 kg (1.8 lb) of refrigerant, which has a CO2 equivalent of 1.144 metric tonnes (1.261 tons).
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Sustainability

Recyclability	91%
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M314 - Tier 4 / Stage V Standard Equipment

NOTE

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

ELECTRICAL SYSTEM

LED lights on boom and cab
Programmable time-delay LED working lights
Roading and indicator lights, front and rear
Maintenance free batteries
Centralized electrical disconnect switch

ENGINE

Cat C3.6 single turbo diesel engine
Power mode selector
One-touch low idle with auto engine speed control
Automatic engine idle shutdown
52° C (125° F) high-ambient cooling capacity
Cold start capability -18° C (0° F)
Double element air filter with integrated pre-cleaner

HYDRAULIC SYSTEM

Boom, stick, and bucket drift reduction valves
Automatic hydraulic oil warm up
Heavy lift mode

SAFETY AND SECURITY

Rear and right-side-view cameras
Wide angle mirrors
Signal/warning horn
Lockable disconnect switch
Anti-skid plate and countersunk bolts on service platform

SERVICE AND MAINTENANCE

Scheduled Oil Sampling (S·O·SSM) ports
Integrated vehicle health management system

TECHNOLOGY

VisionLink®
Remote Flash and Remote Troubleshoot

UNDERCARRIAGE AND STRUCTURES

All wheel drive
Automatic brake/axle lock
3300 kg (7275 lb) counterweight

CAB

Sound-suppressed ROPS cab
Keyless push-to-start engine control
Height-adjustable console, infinite with no tool
High-Resolution 254 mm (10 in) LCD touchscreen monitor

M314 - Tier 4 / Stage V Optional Equipment

NOTE

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

BOOMS AND STICKS

4650 mm (15'3") One-Piece Boom (Europe, Aus-NZ only)
4400 mm (14'5") One-Piece Boom (South Korea only)
5028 mm (16'6") Variable Adjustable Boom
2200 mm (7'3") stick
2500 mm (8'2") stick
2900 mm (9'6") Drop Nose stick without bucket linkage (Europe only)

ELECTRICAL SYSTEM

LED lights on chassis (left-hand, right-hand) and counterweight
Electrical refueling pump

HYDRAULIC SYSTEM

Boom/stick lowering check valves
Bucket cylinder check valves
One-slider joysticks
Two-slider joysticks
Joystick Steering

SAFETY AND SECURITY

360° visibility
Travel alarm
Inspection lighting
2D E-fence
Cab avoidance

SERVICE AND MAINTENANCE

Automatic lubrication system for implement and swing system

TECHNOLOGY

Cat Grade with 2D
Cat Grade with 2D with Attachment Ready Option (ARO)
Laser catcher
Cat Grade 3D Ready

Cat Grade Connectivity
Cat Grade with Assist
Cat Payload
Cat Tiltrotator (TRS) integration

UNDERCARRIAGE AND STRUCTURES

9.00-20 14 PR, dual tires (South Korea only)
10.00-20 16 PR, dual tires
10.00-20, dual, solid rubber tires
300-80-22.5 dual pneumatic, spacerless tire (Europe only)

CAB

Operator Protective Guard (OPG)
Openable two-piece front window (laminated)
Fixed one-piece front window (P5A classified)