

Product Specifications For M316 - Tier 4 / Stage V



Engine

Engine Power - ISO 14396 148 hp

Engine Power - ISO 14396 (DIN) 150 hp (metric)

Engine Model Cat® C4.4

Net Power - ISO 9249 141 hp

Net Power - ISO 9249 (DIN) 143 hp (metric)

Bore 4.1 in

Stroke 5 in

Displacement 268.5 in³

Biodiesel Capability Up to B20¹

Emissions Meets U.S. EPA Tier 4 Final and EU 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.

Drive

Maximum Travel Speed	21.7 mile/h
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Hydraulic System

Main System - Maximum Flow - Implement	73 gal/min
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Maximum Pressure - Implement Circuit - Normal	5076 psi
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Maximum Pressure - Implement Circuit - Heavy Lift	5366 psi
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Maximum Pressure - Implement Circuit - Travel Circuit	5076 psi
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Swing Mechanism

Maximum Swing Speed	10.2 r/min
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Maximum Swing Torque	32305 lbf·ft
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Note (1)	*For CE-marked machine default value may be set lower.
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Machine Weight

Operating Weight Maximum	36990 lb
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Operating Weight Minimum	36400 lb
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Note (1)

Operating weight includes full fuel tank, operator and 10.00-20 tires. Weight varies depending on configuration.

Service Refill Capacities

Fuel Tank	92.5 gal (US)
Diesel Exhaust Fluid (DEF)	5.3 gal (US)
Cooling System	6.3 gal (US)
Hydraulic Tank	31.7 gal (US)
Hydraulic System - Including Tank	68.7 gal (US)

Dimensions

Boom	Variable Adjustable Boom 5.2 m (17'1")
Stick	2.5 m (8'2")
Bucket	GD 0.8 m ³ (1.05 yd ³)
Shipping Height - Top of Cab	11 ft
Shipping Length	28.6 ft
Support Point	11.6 ft
Tail Swing Radius	7.7 ft
Counterweight Clearance	4.3 ft
Ground Clearance	1.3 ft
Undercarriage Length	16.3 ft
Wheel Base	8.4 ft

Working Ranges And Forces

Boom	Variable Adjustable Boom 5.2 m (17'1")
Stick	2.5 m (8'2")
Bucket	GD 0.8 m ³ (1.05 yd ³)
Maximum Cutting Height	33.6 ft
Maximum Loading Height	23.9 ft
Maximum Digging Depth	19.4 ft
Maximum Vertical Wall Digging Depth	15.2 ft
Maximum Reach at Ground Line	30.2 ft
Stick Forces (ISO)	15512 lbf
Bucket Forces (ISO)	26752 lbf
Note (1)	Range values are with dual pneumatic tires (10.00-20). Range values are calculated with a GD bucket (CW) and CW-30 quick coupler with a tip radius of 1484 mm (4'10"). Force values are calculated with heavy lift on, a GD bucket (pin-on) and a tip radius of 1378 mm (4'6").

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 CO ₂ equivalent of 1.216 metric tonnes (1.340 tons).
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M316 - Tier 4 / Stage V Standard Equipment

NOTE

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

BOOM AND STICKS

5.2 m (17'1") Variable Adjustable Boom

2.5 m (8'2") stick

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 C4.4 Single Turbo diesel engine

Power mode selector

One-touch low idle with automatic engine speed control

Automatic engine idle shutdown

52°C (125°F) high-ambient cooling capacity

Cold starting 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

CAT TECHNOLOGY

VisionLink®

Remote Flash and Remote Troubleshoot

UNDERCARRIAGE AND STRUCTURES

All wheel drive

Automatic brake/axle lock

2600 kg (5,732 lb) counterweight

CAB

Sound-suppressed ROPS cab
Keyless push-to-start engine control
Openable two-piece front window (laminated)
Height-adjustable console, infinite with no tool
High-resolution 254 mm (10 in) LCD touchscreen monitor

M316 - Tier 4 / Stage V Optional Equipment

NOTE

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

ELECTRICAL SYSTEM

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

HYDRAULIC SYSTEM

Boom and stick lowering check valves
Bucket cylinder check valves
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

CAT 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

10.00-20 16 PR, dual tires

445/70R 19.5, single tires

3300 kg (7,280) counterweight

CAB

Operator Protective Guards (OPG)