

Product Specifications For M318



Engine

Engine Power - ISO 14396	129 kW
Engine Power - ISO 14396 (DIN)	176 hp (metric)
Engine Model	Cat® C4.4
Net Power - ISO 9249	128 kW
Net Power - ISO 9249 (DIN)	174 hp (metric)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 l
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 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) and are compatible* with 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. *While Caterpillar engines are compatible with these alternative fuels, some regions may not allow their use. **Tailpipe greenhouse gas emissions from lower-carbon intensity fuels are essentially the same as traditional fuels. ***Engines with no aftertreatment devices are compatible with higher blends, up to 100% biodiesel (for use of blends higher than 20% biodiesel, consult your Cat dealer).

Machine Weight

Operating Weight Maximum	19950 kg
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Operating Weight Minimum	17100 kg
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Note (1)

Operating weight includes full fuel tank, operator, bucket 610 kg (1,340 lb), and dual pneumatic tires. Weight varies depending on configuration. Typical configurations include 2.5 m (8' 2") medium stick and 3700 kg (8,157 lb) counterweight.

Drive

Maximum Travel Speed	35 km/h
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Hydraulic System

Main System - Maximum Flow - Implement	254 L/min
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Maximum Pressure - Implement Circuit - Normal	35000 kPa
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Maximum Pressure - Implement Circuit - Heavy Lift	37000 kPa
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Maximum Pressure - Implement Circuit - Travel Circuit	35000 kPa
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Swing Mechanism

Maximum Swing Speed*	9.4 r/min
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Maximum Swing Torque	47.1 kN·m
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Note (1)

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

Service Refill Capacities

Fuel Tank	350 l
Diesel Exhaust Fluid (DEF)	20 l
Cooling System	32 l
Hydraulic Tank	120 l
Hydraulic System - Including Tank	260 l

Dimensions

Boom	Variable Adjustable Boom 5.2 m (17'1")
Stick	2.5 m (8' 2")
Bucket	GD 0.91 m³ (1.19 yd³)
Shipping Height - Top of Cab	3360 mm
Shipping Length	8360 mm
Support Point	3090 mm
Tail Swing Radius	2350 mm
Counterweight Clearance	1300 mm
Ground Clearance	325 mm
Undercarriage Length	5050 mm
Wheel Base	2700 mm

Working Ranges And Forces

Boom	Variable Adjustable Boom 5.2 m (17'1")
Stick	2.5 m (8' 2")
Bucket	GD 0.91 m ³ (1.19 yd ³)
Maximum Cutting Height	10260 mm
Maximum Loading Height	7300 mm
Maximum Digging Depth	5890 mm
Maximum Vertical Wall Digging Depth	4600 mm
Maximum Reach at Ground Line	9210 mm
Stick Forces (ISO)	75 kN
Bucket Forces (ISO)	119 kN
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 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 = 0.5), the system contains 0.8 kg (1.8 lb) of refrigerant which has a CO ₂ equivalent of 0.0004 metric tonnes (0.0004 tons).
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Sustainability

M318 Standard Equipment

NOTE

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

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

CAT TECHNOLOGY

VisionLink™
Remote Flash and Remote Troubleshoot

ENGINE

Power mode selector
One-touch low idle with automatic engine speed control
Automatic Engine Idle Shutdown
Up to 52°C (125°F) high-ambient cooling capacity
Cold start capability down to -18°C (0°F)
Double element air filter with integrated pre-cleaner

ELECTRICAL SYSTEM

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

HYDRAULIC SYSTEM

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

SAFETY AND SECURITY

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

SERVICE AND MAINTENANCE

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

UNDERCARRIAGE AND STRUCTURES

Automatic brake/axle lock
All-wheel drive

M318 Optional Equipment

NOTE

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

BOOM AND STICKS

5100 mm (16'9") One-piece boom
5205 mm (17'1") Variable Adjustable boom
2200 mm (7'3") stick (All regions except N Am)
2500 mm (8'2") stick
2900 mm (9'6") stick (All regions except S Korea)

CAB

Operator Protective Guards (OPG)

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

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
Inspection lighting
2D E-fence
Cab avoidance

SERVICE AND MAINTENANCE

Automatic lubrication system for implement and swing system

UNDERCARRIAGE AND STRUCTURES

10.00-20 16 PR, dual tires
315/70R22.5, no gap dual tires (All regions except N Am)
445/70R 19.5, single tires
300-80-22.5 dual pneumatic, spacerless tires (Europe only)
3700 kg (8,157 lb) counterweight (Europe only)
4200 kg (9,259 lb) counterweight