

PRODUCT SPECIFICATIONS FOR M315



ENGINE

Engine Power - ISO 14396 110 kW

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

Engine Model C4.4

Net Power - ISO 9249 108 kW

Net Power - ISO 9249 (DIN) 147 hp (metric)

Bore 105 mm

Displacement 4.4 l

Stroke 5 in

Biodiesel Capability Up to B20¹

Emissions Meets U.S. EPA Tier 4 Final, EU Stage V, Japan 2014 emission standards.

Note (1) Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, 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) 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 - Implement	275 l/min
Maximum Pressure - Implement Circuit - Heavy Lift	37000 kPa
Maximum Pressure - Implement Circuit - Travel Circuit	35000 kPa
Maximum Pressure - Implement Circuit - Normal	35000 kPa

SWING MECHANISM

Maximum Swing Torque	41 kN·m
Swing Speed	9.1 r/min

MACHINE WEIGHT

Operating Weight Maximum	18000 kg
Operating Weight Minimum	15700 kg

SERVICE REFILL CAPACITIES

Fuel Tank	280 l
Diesel Exhaust Fluid (DEF)	20 l
Cooling System	6.3 gal (US)
Hydraulic Tank	90 l

TRANSMISSION

Maximum Travel Speed	35 km/h
Forward/Reverse - 1st Gear	10 km/h
Forward/Reverse - 2nd Gear	35 km/h
Creeper Speed - 1st Gear	5.5 km/h
Creeper Speed - 2nd Gear	15 km/h
Drawbar Pull	104 kN

DIMENSIONS

Boom	VA 5.2 m (17'1")
Stick	2.5m (8'2")
Bucket	GD 0.76 m ³ (0.99 yd ³)
Shipping Height - Top of Cab	3280 mm
Support Point	3310 mm
Shipping Length	7880 mm
Tail Swing Radius	1750 mm
Counterweight Clearance	1260 mm
Ground Clearance	440 mm
Undercarriage Length	4870 mm
Wheel Base	2550 mm

WORKING RANGES AND FORCES

Boom Type	VA 5.2 m (17'1")
Stick	2.5m (8'2")
Bucket	GD 0.76 m ³ (0.99 yd ³)
Dump Height	7680 mm
Digging Height	5580 mm
Reach at Ground Level	8980 mm
Vertical Wall Digging Depth	4580 mm
Stick Forces (ISO)	71 kN
Bucket Forces (ISO)	106 kN

WORKING RANGES AND FORCES

Cutting Height	10410 mm
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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 of refrigerant which has a CO2 equivalent of 1.144 metric tonnes.
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M315 STANDARD EQUIPMENT

NOTE

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

CAB

ROPS, sound suppression
High-resolution 254 mm (10 in) LCD touchscreen monitor

CAT TECHNOLOGY

Cat Product Link™

CAT TECHNOLOGIES

Remote Flash/Troubleshoot capability

ENGINE

Cat C4.4 engine

Power mode selector

One-touch low idle with auto engine speed control

Auto engine idle shutdown

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

-18°C (0°F) cold start capability

Sealed double element air filter with integrated precleaner

Electric fuel priming pump

Biodiesel capability up to B20

HYDRAULIC SYSTEM

Automatic swing brake

Auto hydraulic oil warm up

Electronic main control valve

Boom, stick, and bucket drift reduction valves

1-slider joystick

Heavy lift mode

Separate dedicated swing pump

Adjustable hydraulic aggressiveness

Electronic pattern changer

Auxiliary high pressure circuit

BOOM AND STICKS

5.2 m (17'1") variable adjustable boom

UNDERCARRIAGE AND STRUCTURES

Creeper speed

Electronic swing and travel lock

Heavy-duty axles, advanced disc brake system and travel motor, adjustable braking force

Oscillating front axle, lockable, with remote greasing point

Automatic brake/axle lock

4000 kg (8,820 lb) counterweight

All wheel drive

ELECTRICAL SYSTEM

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

Programmable time-delay LED working lights

Roading and indicator lights, front and rear

Maintenance-free batteries

Centralized electrical disconnect switch

SERVICE AND MAINTENANCE

Sampling ports for Scheduled Oil Sampling (S&O)

SAFETY AND SECURITY

Rear- and right-side-view cameras

Wide angle mirrors

Ground-level engine shutoff switch

Anti-skid plate and countersunk bolts on service platform

M315 OPTIONAL EQUIPMENT

NOTE

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

CAB

Deluxe cab

Premium cab

Auxiliary relay

CAT TECHNOLOGIES

Cat Grade with 2D

Cat Grade with Advanced 2D

Cat Grade with 3D

Payload

2D E-Fence

HYDRAULIC SYSTEM

2-slider joystick

Second high-pressure auxiliary circuit (one/ two-way high-pressure flow)

Medium pressure auxiliary circuit (one/two-way medium-pressure flow)

Quick coupler circuit

SmartBoom™

Ride control

Cat tiltrotator support

Joystick steering

BOOM AND STICKS

2.2 m (7'3") stick

2.5 m (8'2") stick

UNDERCARRIAGE AND STRUCTURES

10.00-20 16 PR, dual tires

315/70R22.5, no gap dual tires

445/70R 19.5, single tires

ELECTRICAL SYSTEM

Electrical refueling pump

SERVICE AND MAINTENANCE

Automatic lubrication system for implement and swing system

SAFETY AND SECURITY

360° visibility

Cat asset tracker

Signaling/warning horn