

Product Specifications For M320



Engine

Engine Power - ISO 14396:2002	128.8 kW
Engine Model	Cat® C7.1
Bore	105 mm
Displacement	7 l
Stroke	135 mm
Engine Emissions	Meets U.S. EPA Tier 3 and EU Stage IIIA emission standards.
Note (1)	The M320 meets Tier 3 and Stage IIIA emission standards. Net power is tested per ISO 9249:2007. Standards in effect at the time of manufacture. Net power available at flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator with engine speed at 2,000 rpm.
Note (2)	No engine power derating required below 3,000 m (9,843 ft) altitude.
Note (3)	Recommended for use up to 3000 m (9,843 ft) altitude with engine power derate above 3000 m (9,840 ft).
Note (4)	Rated speed at 2,000 rpm.

Machine Weight

Operating Weight Maximum	19500 kg
Operating Weight Minimum	19000 kg
Note (1)	Operating weight includes medium stick, 4000 kg counterweight, full fuel tank, operator, 245 kg quick coupler, 695 kg bucket and dual pneumatic tires. Weight varies depending on configuration.

Drive

Maximum Travel Speed	37 km/h
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Hydraulic System

Main System - Maximum Flow - Implement	280 kPa
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Maximum Pressure - Equipment	35000 kPa
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Maximum Pressure - Swing	31000 kPa
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Maximum Pressure - Travel	35000 kPa
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Swing Mechanism

Maximum Swing Torque	43.4 kN·m
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Maximum Swing Speed	9.2 r/min
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Service Refill Capacities

Cooling System	37 l
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Final Drive	2.5 l
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Fuel Tank	385 l
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Hydraulic System - Including Tank	270 l
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Hydraulic Tank	170 l
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Dimensions

Boom	5350 mm (17'7")
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Bucket	GD 0.91 m³ (1.19 yd³)
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Stick	2.5 m (8'2")
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Counterweight Clearance	1280 mm
Shipping Height - Top of Cab	3300 mm
Shipping Length	8960 mm
Tail Swing Radius	2565 mm

Working Ranges And Forces

Boom Type	One-Piece Boom
Bucket	GD 0.91 m³ (1.19 yd³)
Stick	2.5 m (8'2")
Digging Height	8940 mm
Dump Height	6140 mm
Reach at Ground Level	9295 mm
Vertical Wall Digging Depth	3935 mm

Note (1) Range values are calculated with a bucket (1200GD-CW30) (0.91 m3) with TIP GP-GEN DUTY (K80) and CW-30 quick coupler with a tip radius of 1535 mm (5'5").

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 0.85 kg of refrigerant which has a CO2 equivalent of 1.216 metric tonnes.
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M320 Standard Equipment

NOTE

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

ELECTRICAL SYSTEM

Alternator, 75 A
Boom working light
Cab mounted working lights, front and rear
Roading and indicator lights, front and rear
Main shut-off switch
Maintenance free batteries

ENGINE

Cat® C7.1 Single Turbo diesel engine - meets U.S. EPA Tier 4 Final and EU Stage emission standards.
Power mode selector
Air filter/fuel filter
Automatic engine speed control
Automatic starting aid
Work up to 3000 m (9,842 ft) above sea level without engine power de-rating
Fuel/water separator with level indicator
Muffler

HYDRAULIC SYSTEM

Heavy lift mode
Separate dedicated swing pump
Stick regeneration circuit
Variable displacement, load sensing hydraulic system
Automatic swing brake
Capability to add auxiliary hydraulic circuits
Cat XT-6 ES hoses
Adjustable hydraulic sensitivity
Oil cooler
Anti-drift valve for bucket cylinder
Hydraulic mineral oil, Cat HYDO™ advanced 10 oil
Load sensing hydraulic system

SAFETY AND SECURITY

Camera mounted on counterweight
Mirrors, frame and cab
Travel alarm
Signal/warning horn

SERVICE AND MAINTENANCE

Sampling ports for Scheduled Oil Sampling (SOS)
Caterpillar Datalink and Electronic Technician capability

Door locks and cab locks with Caterpillar one-key security system

CAT TECHNOLOGIES

Cat Product Link™

UNDERCARRIAGE AND STRUCTURES

Creeper speed/ four wheel drive

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

Parking brake

Oscillating front axle, lockable, with remote greasing point

Full hydraulic steering with emergency capability

Steps with tool box in undercarriage (left and right)

Two-piece drive shaft

Two speed hydrostatic transmission

Counterweight (4000 KG-8818 lb)

M320 Optional Equipment

NOTE

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

BOOM AND STICKS

One-Piece Boom

2.5 m (8'2") stick

2.8 m (9'2") stick

Bucket linkage with diverter valve

ELECTRICAL SYSTEM

Electrical refueling pump

SAFETY AND SECURITY

Rotating beacon on cab and chassis

UNDERCARRIAGE AND STRUCTURES

10.00-20 dual tires

10.00-20 dual pneumatic tires with road profile

Rear blade (parallel) / front outrigger undercarriage

Rear outrigger / front blade (parallel) undercarriage