

PRODUCT SPECIFICATIONS FOR M320



ENGINE

Engine Power - ISO 14396	174 HP
Engine Model	C4.4
Engine Power - Maximum Gross - ISO 14396 - Metric	129.4 kW (176 hp) (PS)
Bore	4 in
Displacement	268.5 in ³
Stroke	5.3 in

TRANSMISSION

Maximum Travel Speed 21.7 mile/h

HYDRAULIC SYSTEM

Main System - Maximum Flow - Implement	81 gal/min
Maximum Pressure - Equipment	5366 psi
Maximum Pressure - Swing	5729 gal/min
Maximum Pressure - Travel	5076 gal/min

MACHINE WEIGHT

Operating Weight Maximum 46740 lb
Operating Weight Minimum 41450 lb

SERVICE REFILL CAPACITIES

Cooling System	8.4 gal (US)
Diesel Exhaust Fluid (DEF)	7.9 gal (US)
Hydraulic System - Including Tank	71.3 gal (US)
Hydraulic Tank	40.9 gal (US)
Final Drive	0.7 gal (US)
Fuel Tank	124.2 gal (US)

SERVICE REFILL

Engine Oil 3.4 gal (US)

DIMENSIONS

Boom	5260 mm (17'3")
Bucket	0.98 m ³ GD (1.28 yd ³)
Stick	2.5 m (8' 2")
Shipping Height - Top of Cab	11 ft
Shipping Length	29.3 ft
Counterweight Clearance	4.3 ft
Ground Clearance	1.4 ft
Support Point	11.8 ft
Tail Swing Radius	8.5 ft
Wheel Base	8.9 ft

WORKING RANGES AND FORCES

Boom Type	VA Boom
Bucket	0.98 m ³ GD (1.28 yd ³)
Stick	2.5 m (8' 2")
Reach at Ground Level	30.5 ft
Vertical Wall Digging Depth	13.9 ft
Cutting Height	32.6 ft
Bucket Forces (ISO)	30799 lbf
Stick Forces (ISO)	20682 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 1535 mm (5'0").

SWING MECHANISM

Swing Speed	9.2 r/min
Maximum Swing Torque	37000 ft·lbf

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.

M320 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 TECHNOLOGIES

- Cat Product Link
- Remote Flash/Troubleshoot Capability

ELECTRICAL SYSTEM

- LED lights on boom and cab
- 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
- Electrical refueling pump

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
- Cold start capability -18° C (0° F)
- Double element air filter with integrated precleaner
- Electric fuel priming pump
- On-demand electric cooling fans with autoreverse function
- Biodiesel capability up to B20

HYDRAULIC SYSTEM

- Automatic swing brake
- Auto hydraulic oil warm up
- Electronic main control valve
- Boom and stick drift reduction valves
- Heavy lift mode
- Quick coupler circuit
- Separate dedicated swing pump

SAFETY AND SECURITY

- Rear and side-view cameras
- Wide angle mirrors
- Ground-level engine shutoff switch
- Anti-skid plate and countersunk bolts on service platform
- Signaling/warning horn

SERVICE AND MAINTENANCE

- Sampling ports for Scheduled Oil Sampling (S-O-S)

UNDERCARRIAGE AND STRUCTURES

- Automatic brake/axle lock
- All wheel drive

M320 OPTIONAL EQUIPMENT

NOTE

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

BOOM AND STICKS

- 5650 mm (18'6") one-piece boom
- 5260 mm (17'3") variable adjustable boom
- 2500 mm (8'2") stick
- 2900 mm (9'6") stick

CAT TECHNOLOGIES

- Cat Grade with 2D
- Cat Grade with Advanced 2D
- Cat Grade with 3D
- Payload
- 2D E-Fence

CAB

- Deluxe cab
- Premium cab
- Auxiliary relay

ELECTRICAL SYSTEM

- Electrical refueling pump

HYDRAULIC SYSTEM

- One-slider joysticks
- Two-slider joysticks
- Combined flow/high-pressure auxiliary circuit
- SmartBoom
- Ride control
- Cat tilrotator support

- Joystick steering

SAFETY AND SECURITY

- 360° visibility
- Cat asset tracker

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
- 445/70R 19.5, single tires
- 3700 kg (8,160 lb) counterweight
- 4200 kg (9,260 lb) counterweight