



# Cat<sup>®</sup> M317D2

## WHEEL EXCAVATOR

### FEATURES:

- **Engine** – Emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard. The C4.4 offers increased performance and reliability while reducing fuel consumption and sound levels.
- **Environmentally Responsible Design** – Helping to protect our environment, the engine has low operator and spectator sound levels, longer filter change intervals and is more fuel-efficient.
- **Hydraulics** – The state of the art load-sensing hydraulic system combined with a separate dedicated swing pump provides fast cycle times, increased lift capacity and high bucket and stick forces. This combination maximizes your productivity in any job.
- **Serviceability** – For increased safety, all daily maintenance points are accessible from ground level. A centralized greasing system allows lubrication of critical points.
- **Operator Comfort** – The operator station maximizes comfort while increasing safety. Safety is enhanced by the new color monitor and standard rear-mounted camera.

## Specifications

### Engine

Engine Model	Cat <sup>®</sup> C4.4 with ACERT™ Technology
Ratings	2,000 rpm
Gross Power	108 kW (147 hp)
Net Power	
ISO 9249	101 kW (137 hp)
80/1269/EEC	101 kW (137 hp)
Bore	105 mm
Stroke	127 mm
Displacement	4.4 L
Cylinders	4
Maximum Torque at 1,400 rpm	550 N·m

- All engine horsepower (hp) are metric.
- Emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard.
- Full engine net power up to 3000 m altitude.

### Hydraulic System

Tank Capacity	135 L
System	255 L
Maximum Pressure	
Implement Circuit	
Normal	350 bar
Heavy Lift	375 bar
Travel Circuit	350 bar
Auxiliary Circuit	
High Pressure	350 bar
Medium Pressure	185 bar
Swing Mechanism	370 bar
Maximum Flow	
Implement/Travel Circuit	220 L/min
Auxiliary Circuit	
High Pressure	220 L/min
Medium Pressure	40 L/min
Swing Mechanism	80 L/min

### Weights

VA Boom*	
Rear Dozer Only	15 840 kg
Front Blade, Rear Outriggers	16 790 kg
One-Piece Boom*	
Rear Dozer Only	15 340 kg
Front Blade, Rear Outriggers	16 290 kg
Sticks	
Medium (2400 mm)	514 kg
Long (2600 mm)	530 kg
Dozer Blade	750 kg
Outriggers	960 kg
Counterweight	
Standard	3500 kg
Optional	3900 kg

\* Machine weight with medium stick, 3900 kg counterweight, with operator and full fuel tank, without work tool. Weight varies depending on configuration.



# M317D2 Wheel Excavator

## Transmission

Forward/Reverse	
1st Gear	8 km/h
2nd Gear	34 km/h
Creeper Speed	
1st Gear	3 km/h
2nd Gear	13 km/h
Drawbar Pull	97 kN
Maximum Gradeability	69%

## Swing Mechanism

Swing Speed	10.5 rpm
Swing Torque	40 kN-m

## Tires

- Standard
- 10.00-20 (dual pneumatic)

## Sound Levels

### Exterior Sound

- The labeled spectator sound power level measured according to the test procedures and conditions specified in 2000/14/EC is 102 dB(A).

## Undercarriage

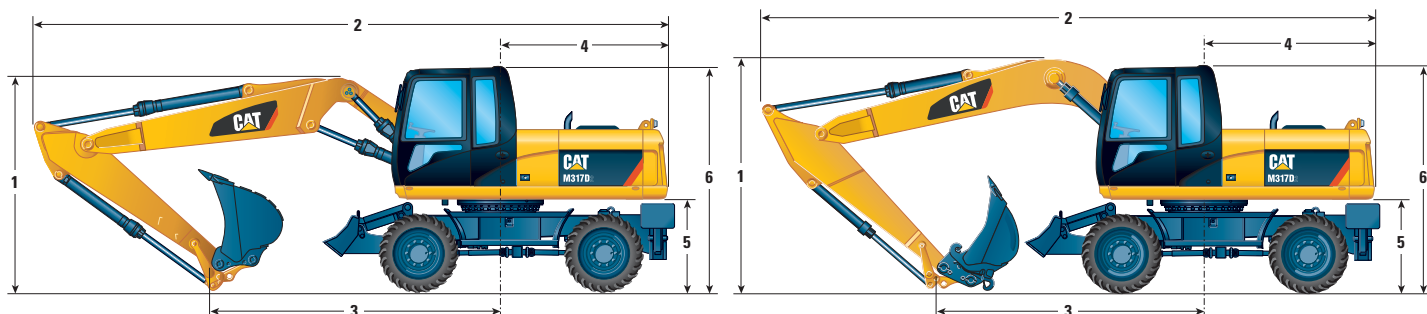
Ground Clearance	370 mm
Maximum Steering Angle	35°
Oscillation Axle Angle	± 9°
Minimum Turning Radius	
Outside of Tire	6300 mm
End of VA Boom	6900 mm
End of One-Piece Boom	8300 mm

## Service Refill Capacities

Fuel Tank	240 L
Cooling	33 L
Engine Crankcase	8 L
Rear Axle Housing (differential)	14 L
Front Steering Axle (differential)	10.5 L
Final Drive	2.5 L
Powershift Transmission	2.5 L

## Cab/FOGS

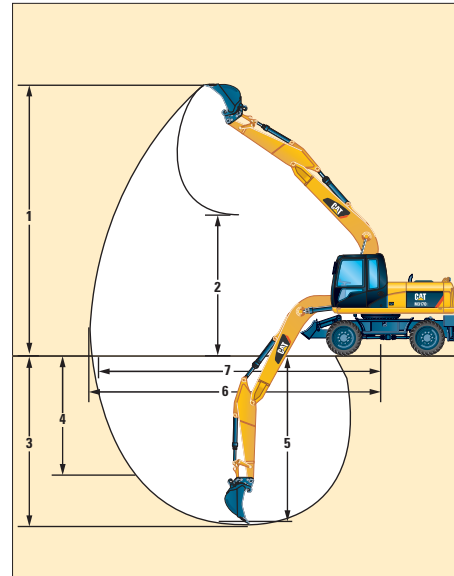
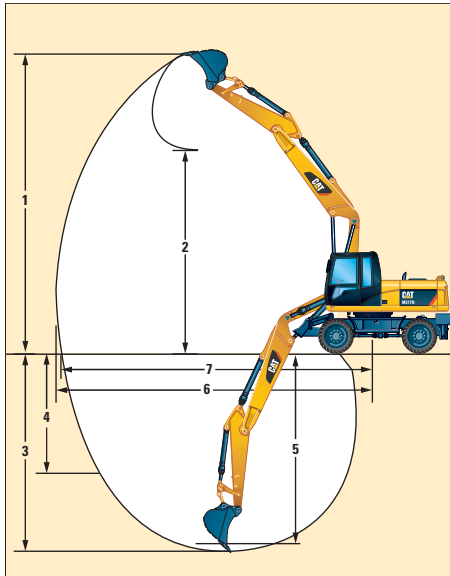
- Cab with Falling Object Guard Structure (FOGS) meets ISO 10262.



## Dimensions (All dimensions are approximate.)

		VA Boom		One-Piece Boom	
		2400	2600	2400	2600
Stick Length	mm				
1 Shipping Height	mm	3150	3150	3150	3150
2 Shipping Length	mm	8480	8470	8330	8330
3 Support Point	mm	3660	3560	3280	3160
4 Tail Swing Radius	mm	2210		2210	
5 Counterweight Clearance	mm	1332		1332	
6 Cab Height	mm	3150		3150	
Overall Machine Width	mm	2550		2550	

## Working Ranges



		VA Boom		One-Piece Boom	
		2400	2600	2400	2600
Stick Length	mm	2400	2600	2400	2600
<b>1</b> Digging Height	mm	10 230	10 380	9070	9190
<b>2</b> Dump Height	mm	7140	7300	6110	6230
<b>3</b> Digging Depth	mm	5890	6090	5690	5890
<b>4</b> Vertical Wall Digging Depth	mm	3920	4090	3650	3820
<b>5</b> Depth 2.5 m Straight Clean-Up	mm	5690	5900	5490	5700
<b>6</b> Reach	mm	9360	9560	9160	9350
<b>7</b> Reach at Ground Level	mm	9190	9380	8970	9170
Bucket Forces (ISO 6015)	kN	101	101	101	101
Stick Forces (ISO 6015)	kN	74	71	74	71

Values 1-7 are calculated with bucket and quick coupler with a tip radius of 1552 mm.

Breakout force values are calculated with heavy lift on (no quick coupler) and a tip radius of 1405 mm.

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## STANDARD EQUIPMENT

### ELECTRICAL

- Alternator, 75 A
- Lights
  - Boom working light
  - Cab interior light
  - Rooding lights (front/rear)
  - Working lights, cab mounted (front and rear)
- Main shut-off switch
- Heavy-duty maintenance free batteries
- Signal/warning horn

### ENGINE

- Automatic engine speed control
- Automatic starting aid
- Cat C4.4 with ACERT Technology emits at levels equivalent to U.S. EPA Tier III and EU Stage IIIA emission standard
- Fuel/water separator with level indicator

### HYDRAULICS

- Heavy lift mode
- Load-sensing Plus hydraulic system
- Manual work modes (economy, power)
- Separate swing pump
- Stick regeneration circuit

### OPERATOR STATION

- Adjustable armrests
- Air conditioner, heater and defroster with automatic climate control
- Ash tray with cigarette lighter (24 volt)
- Beverage cup/can and bottle holder
- Bolt-on FOGS capability
- Bottom mounted parallel wiping system
- Camera mounted on counterweight
- Coat hook
- Floor mat, washable
- Fully adjustable suspension seat
- Instrument panel and gauges
  - Information and warning messages
  - Gauges for fuel level, engine coolant and hydraulic oil temperature
  - Filters/fluids change interval
  - Indicators for headlights, turning signal, low fuel, engine dial setting
  - Clock with 10-day backup battery
- Laminated front windshield
- Left side console, tiltable, with lock out for all controls
- Literature compartment behind seat
- Literature holder in right console
- Mobile phone holder

### OPERATOR STATION (cont'd)

- Parking brake
- Positive filtered ventilation
- Power supply, 12V-7A
- Rear window, emergency exit
- Retractable seat belt
- Skylight
- Sliding door windows
- Steering column, tiltable
- Storage area suitable for a lunch box
- Sunshade for windshield and skylight
- Travel speed lock
- Visor for rain protection

### UNDERCARRIAGE

- Heavy-duty axles, adjustable braking force
- Oscillating front axle with remote greasing
- Tires, 10.00-20 16 PR, dual
- Two tool boxes in undercarriage
- Two-piece drive shaft

### OTHER EQUIPMENT

- Automatic swing brake
- Counterweight, 3500 kg
- Mirrors, frame and cab
- Product Link™ ready

## KEY OPTIONAL EQUIPMENT

### AUXILIARY CONTROLS AND LINES

- Auxiliary boom and stick lines
- Basic control circuits:
  - Medium pressure
  - Hammer only (one way HPF)
  - Tool control/multi function, HP, programmable for up to 10 work tools
  - Quick coupler control
- SmartBoom™

### FRONT LINKAGE

- Booms
  - One-piece boom, 5050 mm
  - VA boom (two piece), 5200 mm
- Sticks (2400 mm, 2600 mm)

### ELECTRICAL

- Back-up alarm with three selectable modes
- Rotating beacon
- Refueling pump

### OPERATOR STATION

- Falling objects guard
- CD/MP3 Radio (12V)
- Seat, adjustable high-back
  - mechanical suspension
  - air suspension (vertical)
- 70/30 windshield

### UNDERCARRIAGE

- Dozer blade, front or rear mounted
- Outriggers, rear mounted
- Spacer rings and tires

### OTHER EQUIPMENT

- Cat Machine Security System
- Cat Product Link
- Counterweight, 3900 kg
- Ride Control
- Tool box in upperframe, lockable

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

AEHQ7140 (09-13)

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