



Cat[®] M317F

Wheeled Excavator

2017

Working hard has never been easier with Cat[®] F Series Wheeled Excavators. The M317F compact radius increases your fleet versatility by introducing you into new possible markets like those with tight-quarter tasks and turning radius constraints such as road construction or small job sites. These machines are designed to help you take on the wide variety of challenges you face every day, and at a lower cost.

Performance

- Cat C4.4 ACERT[™] engine meets U.S. EPA Tier 4 Final/EU Stage IV emission standards. Emissions technology is transparent – no action required from the operator and no stopping for regeneration.
- Dedicated swing pump, allowing faster, smoother combined movements.
- Built-in fuel savers, eliminating waste with features like Auto Engine Speed Control, Engine Idle Shutdown and efficient Eco Mode.
- “On-Demand” Strategies, to consume just the right amount of fuel.
- Large working envelope and very good stability.
- Highly mobile, the M317F can travel up to 30 km/h (19 mph).

Versatility

- Compact design allows an operator to swing with confidence in tight quarters.
- Flexible configurations to meet all your needs with various booms/sticks, tires and undercarriages.
- “Plug and Play” design, with complete integration of the whole portfolio of Cat attachments.
 - Auxiliary hydraulics, including high pressure.
 - Readiness for Cat Pin Grabber quick coupler (with lines and circuits).
 - The monitor can allow ten hydraulic pump flow and pressure settings at the same time.
- Joystick buttons/sliders can be set up per tool as desired.
- Utility and finishing work are fast and flawless with a Cat compactor, finishing bucket or tilt bucket.
- Dealing with debris and waste is easy with a Cat hammer and grapple.
- Couplers let you swap between attachments in seconds without leaving the cab.

Ease of Operation

- A complete package of smart technologies with features like Cruise Control or automatic brake and axle lock. Optional boosters like Ride Control, SmartBoom[™], joystick steering are available.
- Everything can be adjusted in the cab from the steering column height to the electrically adjustable mirrors.
- Ergonomic cab with controls kept to a minimum and conveniently located.
- Split-screen monitor to allow quick view of both cameras on the same display.

Safety

- Integrated devices to help enforce safe behavior, like seat belt indicator, or the speed limit setting when roading in reverse with the upper frame rotated.
- Visibility: large glass areas, rear/side cameras. LED lamps for all working lights and cameras.
- For added protection, the optional impact resistant windshield meets the EN356 P5A standard.
- Integrated pin code adds anti-theft security to your equipment.

Maintenance

- Ground level access to all routine maintenance (like fuel and engine oil filters).
- Easy access: clean, simple design. Radiators are all gathered together.
- Reduced maintenance: automatic features (like lubrication system) along with long greasing intervals. Fit for life Diesel Particulate Filter.

Cat Connect Technology

- Product Link[™] connects owners to their equipment, providing access to machine data such as location, hours, fuel consumption, idle time, events, and diagnostic codes.



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Engine

Engine Model	Cat C4.4 ACERT with Twin Turbo	
Ratings	1,800 rpm	
Engine Power		
Maximum Gross (ISO 14396)	117 kW	157 hp (159 hp)*
Maximum Net (ISO 9249/SAE J1349)	112 kW	150 hp (152 hp)*
Bore	105 mm	4.1 in
Stroke	127 mm	5.0 in
Displacement	4.4 L	268.5 in ³
Maximum Torque at 1,400 rpm	710 N·m	523 lbf-ft
Number of Cylinders – In line	4	
• Meets Tier 4 Final/Stage IV emission standards.		
*Metric values.		

Transmission

Maximum Forward/Reverse – 2nd Gear	30 km/h	19 mph
Drawbar Pull	104 kN	23,380 lbf
Maximum Gradeability at 17 500 kg (38,580 lb)	70%	

Swing Mechanism

Swing Speed	9 rpm	
Maximum Swing Torque	37 kN·m	27,289 lbf-ft

Undercarriage

Ground Clearance	370 mm	14.6 in
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Service Refill Capacities

Fuel Tank (total capacity)	295 L	77.9 gal
Diesel Exhaust Fluid Tank	19 L	5 gal

Swing Radius and Key Dimensions (maximum footprint with outriggers down)

Tail Swing Radius	1785 mm	5'10"
Maximum Width (with parallel blade)	2550 mm	8'4"
Maximum Shipping Length (with long stick)	8465 mm	27'9"

Weights

Operating Weights*	16 750 to 17 750 kg	36,927 to 38,691 lb
VA Boom		
Rear Dozer Only	16 750 kg	36,927 lb
Front Dozer, Rear Outriggers	17 750 kg	38,691 lb
Counterweight	4300 kg	9,480 lb
*Includes medium stick, counterweight, full fuel tank, operator, dual pneumatic tires. Weight varies depending on configuration.		

Hydraulic System

System	245 L	64.7 gal
Maximum Pressure – Implement Circuit		
Normal and Travel Circuits	35 000 kPa	5,076 psi
Heavy Lift	37 500 kPa	5,439 psi
Maximum Pressure – Auxiliary Circuit		
High Pressure	35 000 kPa	5,076 psi
Medium Pressure	18 500 kPa	2,683 psi
Swing Mechanism	33 000 kPa	4,786 psi
Maximum Flow – Implement/Travel Circuits		
Maximum Flow – Implement Circuit	220 L/min	58 gal/min
High Pressure	220 L/min	58 gal/min
Medium Pressure	48 L/min	12.7 gal/min
Maximum Flow – Swing Mechanism		
Maximum Flow – Swing Mechanism	70 L/min	18.5 gal/min

Working Ranges

Boom Type	VA Boom			
	mm	ft/in	mm	ft/in
Stick Length	2450	8'0"	2600	8'6"
Digging Height	9910	32'6"	10 240	33'7"
Dump Height	6810	22'4"	7110	23'4"
Digging Depth	5690	18'8"	5870	19'3"
Reach at Ground Level	8870	29'1"	9110	29'11"

• Range values are calculated with GD bucket 1100 mm (3'7"), 0.80 m³ (1.05 yd³) with tips K080 and quick coupler with a tip radius of 1574 mm (5'2").

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