



# Cat<sup>®</sup> M315F

## Wheeled Excavator

### 2017

**Working hard has never been easier with Cat<sup>®</sup> F Series Wheeled Excavators. The M315F 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<sup>™</sup> engine meets 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.
- Similar working ranges, stability and lift capacities as the M314F.
- Highly mobile, the M315F 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, and quick coupler lines/circuits.
  - Readiness for all couplers, either Pin Grabber, Dedicated or hydraulic Auto Connect coupler.
  - The monitor can allow ten hydraulic pump flow and pressure settings at the same time.
  - Tiltrotator option including all required changes to accommodate the Cat Tiltrotator.
- Joystick buttons/sliders can be set up per tool as desired by the operator.

### 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<sup>™</sup>, 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<sup>™</sup> connects owners to their equipment, providing access to machine data such as location, hours, fuel consumption, idle time, events, and diagnostic codes.



# Cat® M315F Wheeled Excavator

## 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/PS)*
Maximum Net (ISO 9249/SAE J1349)	112 kW	150 hp (152 hp/PS)*
Bore	105 mm	4.1 in
Stroke	127 mm	5.0 in
Displacement	4.4 L	268.5 in <sup>3</sup>
Maximum Torque at 1,400 rpm	710 N·m	523 lbf-ft
Number of Cylinders – In Line	4	
• Meets 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 16 500 kg (36,380 lb)	78%	

## Swing Mechanism

Swing Speed	8.1 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

Tail Swing Radius	1750 mm	5'9"
Maximum Width (with parallel blade)	2550 mm	8'4"
Maximum Shipping Length (with long stick)	8150 mm	26'9"

## Weights

Operating Weights*	16 700 to 17 960 kg	36,817 to 39,595 lb
VA Boom		
Rear Dozer Only	16 490 kg	36,354 lb
Rear Dozer, Front Outriggers	17 470 kg	38,515 lb
Offset Boom		
Rear Dozer, Front Outriggers	18 030 kg	39,749 lb
Counterweight	3750 kg	8,267 lb

\*Includes medium stick, counterweight, full fuel tank, operator, quick coupler (210 kg/463 lb), bucket (490 kg/1,080 lb), dual pneumatic tires. Weight varies depending on configuration.

## Hydraulic System

System	245 L	64.7 gal
Maximum Pressure – Implement Circuit		
Normal and Travel Circuits	350 bar	5,076 psi
Heavy Lift	375 bar	5,439 psi
Maximum Pressure – Auxiliary Circuit		
High Pressure	350 bar	5,076 psi
Medium Pressure	185 bar	2,683 psi
Swing Mechanism	330 bar	4,786 psi
Maximum Flow – Implement/Travel Circuits	220 L/min	58 gal/min
Maximum Flow – Auxiliary Circuit		
High Pressure	220 L/min	58 gal/min
Medium Pressure	48 L/min	12.7 gal/min
Maximum Flow – Swing Mechanism	70 L/min	18.5 gal/min

## Working Ranges

Boom Type	VA Boom				Offset Boom			
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	2300	7'7"	2450	8'0"	2300	7'7"	2450	8'0"
Digging Height	9900	32'6"	9770	32'1"	9880	32'5"	9740	31'11"
Dump Height	7030	23'1"	6930	22'9"	7010	23'0"	6900	22'8"
Digging Depth	5460	17'11"	5570	18'3"	5460	17'11"	5570	18'3"
Reach at Ground Level	8700	28'7"	8740	28'8"	8690	28'6"	8720	28'7"

• Range values are calculated with GD bucket 1100 mm (43"), 0.68 m<sup>3</sup> (0.89 yd<sup>3</sup>) with tips J250 and CW-20-H.4.N quick coupler with a tip radius of 1437 mm (56.6").

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