

# Cat® M320F

Wheeled Excavator 2017

Working hard has never been easier with Cat® F Series Wheeled Excavators. Enjoy the versatility offered by integrated solutions and technologies that do repetitive tasks for you. 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 C7.1 ACERT<sup>TM</sup> engine meets EU Stage IV emission standards. Emissions technology is transparent – no action required from the operator and no stopping for regeneration.
- Up to a 10% fuel consumption reduction vs. previous model with the same productivity.
- 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, with on-demand fan or new optimized demand-driven driveline.
- Dedicated swing pump, allowing faster, smoother combined movements.
- Highly mobile, the M320F can travel up to 35 km/h (22 mph).

#### Versatility

- Flexible configurations to meet all your needs with various booms/sticks, tires, undercarriages and counterweights.
- "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™, 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.
- Blue Angel certified machine, with low sound levels and vibrations.
- 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 and events, and diagnostic codes.



# Cat® M320F Wheeled Excavator

Engine				
Engine Model	Cat C7.1 ACERT			
Ratings	1,550 rpm			
Engine Power				
Maximum Gross (ISO 14396)	129.4 kW	174 hp (176 hp/PS)*		
Maximum Net (ISO 9249/SAE J1349)	126 kW	169 hp (171 hp/PS)*		
Bore	105 mm	4.1 in		
Stroke	135 mm	5.3 in		
Displacement	7.01 L	427.8 in <sup>3</sup>		
Maximum Torque at 1,400 rpm	830 N⋅m	612.0 lbf-ft		
Number of Cylinders – In line	6			
Meets Stage IV emission standards.				

Transmission								
Maximum Forward/Reverse – 2nd Gear	35 km/h	22 mph						
Drawbar Pull	104 kN	23,380 lbf						
Maximum Gradeability at 18 500 kg (40,785 lb)	70	0%						

Swing Mechanism						
Swing Speed	10 rpm					
Swing Torque	43 kN⋅m	31,715 lbf-ft				

Undercarriage Ground Clearance 370 mm 14.6 in				
Ground Clearance	370 mm	14.6 in		

Service Refill C	apacities	
Fuel Tank (total capacity)	415 L	109.6 gal
Diesel Exhaust Fluid Tank	34.5 L	9.1 gal

Weight	ts				
Operating Weights*	18 750 to 20 650 kg	41,337 to 45,525 lb			
VA Boom					
Rear Dozer Only	18 950 kg	41,778 lb			
Rear Dozer, Front Outriggers	19 950 kg	43,982 lb			
Front and Rear Outriggers	20 150 kg	44,423 lb			
One-Piece Boom					
Rear Dozer, Front Outriggers	19 450 kg	42,880 lb			
Front and Rear Outriggers	19 650 kg	43,321 lb			
Counterweights	3700/4200 kg	8,157/9,259 lb			
*Includes medium stick, 3700 kg (8,157 lb) counterweight, full fuel tank, operator, quick coupler (250 kg/551 lb), bucket (635 kg/1,400 lb), dual pneumatic tires. Weight varies depending on configuration.					

Hydraulic System								
System	270 L	71.3 gal						
Maximum Pressure – Implement Circuit								
Normal and Travel Circuits	350 bar	5,076 psi						
Heavy Lift	370 bar	5,366 psi						
Maximum Pressure – Auxiliary Circuit								
High Pressure	350 bar	5,076 psi						
Medium Pressure	185 bar	2,683 psi						
Swing Mechanism	310 bar	4,496 psi						
${\bf Maximum\ Flow-Implement/Travel\ Circuits}$	288 L/min	76 gal/min						
Maximum Flow – Auxiliary Circuit								
High Pressure	288 L/min	76 gal/min						
Medium Pressure	49 L/min	12.9 gal/min						
Maximum Flow – Swing Mechanism	107 L/min	28.2 gal/min						

Working Ranges												
Boom Type	VA Boom			VA Boom One-Piece Boom								
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	2500	8'2"	2800	9'2"	3300*	10'10"*	2500	8'2"	2800	9'2"	3300*	10'10"*
Digging Height	9950	32'8"	10 165	33'4"	8970	29'5"	8940	29'4"	9095	29'10"	7720	25'4"
Dump Height	6970	22'10"	7180	23'7"	3980	13'1"	6140	20'2"	6290	20'8"	3200	10'6"
Digging Depth	6035	19'10"	6330	20'9"	5030	16'6"	5980	19'7"	6280	20'7"	4820	15'10"
Reach at Ground Level	9270	30'5"	9565	31'5"	8170	26'10"	9295	30'6"	9580	31'5"	7920	26'0"

• Range values are calculated with GD bucket 1200 mm (48 in), 0.98 m³ (1.28 yd³) with tips K080 and CW-30-H.4.N quick coupler with a tip radius of 1535 mm (5'0").

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\*Metric values.

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.



<sup>\*</sup>Industrial stick (no bucket linkage).