



Cat[®] M318F

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[™] 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 M318F 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.
 - Trailer-ready package option. Just add your hitch and go.
- 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.



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Engine

Engine Model	Cat C7.1 ACERT	
Ratings	1,750 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 ³
Maximum Torque at 1,400 rpm	783 N·m	578.0 lbf·ft
Number of Cylinders – In line	6	
• Meets Stage IV emission standards.		
*Metric values.		

Transmission

Maximum Forward/Reverse – 2nd Gear	35 km/h	22 mph
Drawbar Pull	103 kN	23,155 lbf
Maximum Gradeability at 17 500 kg (38,581 lb)	75%	

Swing Mechanism

Swing Speed	10 rpm	
Swing Torque	38 kN·m	28,027 lbf·ft

Undercarriage

Ground Clearance	370 mm	14.6 in
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Service Refill Capacities

Fuel Tank (total capacity)	330 L	87.2 gal
Diesel Exhaust Fluid Tank	34.5 L	9.1 gal

Weights

Operating Weights*	17 200 to 19 700 kg	37,919 to 43,431 lb
VA Boom		
Rear Dozer Only	17 400 kg	38,360 lb
Rear Dozer, Front Outriggers	18 410 kg	40,587 lb
Front and Rear Outriggers	18 670 kg	41,160 lb
One-Piece Boom		
Rear Dozer, Front Outriggers	17 920 kg	39,507 lb
Front and Rear Outriggers	18 180 kg	40,080 lb
Offset Boom		
Rear Dozer, Front Outriggers	18 950 kg	41,778 lb
Counterweights	3400/3900 kg	7,496/8,598 lb
*Includes medium stick, 3400 kg (7,496 lb) counterweight, full fuel tank, operator, quick coupler (250 kg/551 lb), bucket (600 kg/1,323 lb), dual pneumatic tires. Weight varies depending on configuration.		

Hydraulic System

System	210 L	55.5 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	370 bar	5,366 psi
Maximum Flow – Implement/Travel Circuits	252 L/min	67 gal/min
Maximum Flow – Auxiliary Circuit		
High Pressure	252 L/min	67 gal/min
Medium Pressure	49 L/min	12.9 gal/min
Maximum Flow – Swing Mechanism	85 L/min	22.5 gal/min

Working Ranges

Boom Type	VA Boom								One-Piece Boom								Offset Boom	
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in		
Stick Length	2100	6'11"	2400	7'10"	2600	8'6"	3100*	10'2"*	2100	6'11"	2400	7'10"	2600	8'6"	3100*	10'2"*	2400	7'10"
Digging Height	10 090	33'1"	10 275	33'9"	10 435	34'3"	8970	29'5"	9045	29'8"	9140	30'0"	9255	30'4"	7720	25'4"	10 320	33'10"
Dump Height	6945	22'9"	7135	23'5"	7265	23'10"	3980	13'1"	6000	19'8"	6110	20'1"	6225	20'5"	3200	10'6"	7175	23'6"
Digging Depth	5595	18'4"	5890	19'4"	6090	20'0"	5030	16'6"	5390	17'8"	5690	18'8"	5890	19'4"	4820	15'10"	5895	19'4"
Reach at Ground Level	8935	29'4"	9210	30'3"	9405	30'10"	8170	26'10"	8730	28'8"	8995	29'6"	9190	30'2"	7920	26'0"	9225	30'3"

• Range values are calculated with GD bucket 1200 mm (48 in), 0.91 m³ (1.19 yd³) with tips K080 and CW-20-H.4.N quick coupler with a tip radius of 1574 mm (5'2").

*Industrial stick (no bucket linkage).

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