



Cat[®] M322F

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 M322F can travel up to 30 km/h (19 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, events, and diagnostic codes.



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Engine

Engine Model	Cat C7.1 ACERT	
Ratings	1,700 rpm	
Engine Power		
Maximum Gross (ISO 14396)	128.8 kW	173 hp (175 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	830 N·m	612.0 lbf·ft
Number of Cylinders – In line	6	
• Meets Stage IV emission standards.		
*Metric values.		

Transmission

Maximum Forward/Reverse – 2nd Gear	30 km/h	19 mph
Drawbar Pull	127 kN	28,550.7 lbf
Maximum Gradeability at 25 000 kg (55,115 lb)	70%	

Swing Mechanism

Swing Speed	9 rpm	
Swing Torque	53 kN·m	39,220 lbf·ft

Undercarriage

Ground Clearance	360 mm	14.2 in
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Service Refill Capacities

Fuel Tank (total capacity)	420 L	111 gal
Diesel Exhaust Fluid Tank	34.5 L	9.1 gal

Weights

Operating Weights*	20 800 to 22 330 kg	45,856 to 49,229 lb
VA Boom		
Rear Dozer Only	20 800 kg	45,856 lb
Rear Dozer, Front Outriggers	22 100 kg	48,722 lb
Front and Rear Outriggers	22 330 kg	49,229 lb
One-Piece Boom		
Rear Dozer, Front Outriggers	21 490 kg	47,377 lb
Front and Rear Outriggers	21 720 kg	47,884 lb
Counterweights	3500/4700 kg	7,716/10,362 lb
*Includes medium stick, 3500 kg (7,716 lb) counterweight, full fuel tank, operator, quick coupler (250 kg/551 lb), bucket (780 kg/1,720 lb), dual pneumatic tires. Weight varies depending on configuration.		

Hydraulic System

System	405 L	107 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
Maximum Flow – Implement/Travel Circuits	357 L/min	94 gal/min
Maximum Flow – Auxiliary Circuit		
High Pressure	250 L/min	66 gal/min
Medium Pressure	50 L/min	13.2 gal/min
Maximum Flow – Swing Mechanism	118 L/min	31.2 gal/min

Working Ranges

Boom Type	VA Boom				One-Piece Boom			
	mm	ft/in	mm	ft/in	mm	ft/in	mm	ft/in
Stick Length	2500	8'2"	2900	9'6"	2500	8'2"	2900	9'6"
Digging Height	10 540	34'7"	10 850	35'7"	9370	30'9"	9590	31'6"
Dump Height	7220	23'8"	7530	24'8"	6250	20'6"	6470	21'3"
Digging Depth	6250	20'6"	6650	21'10"	6050	19'10"	6450	21'2"
Reach at Ground Level	9800	32'2"	10 190	33'5"	9910	32'6"	10 300	33'10"

• Range values are calculated with GD bucket 1200 mm (48 in), 1.19 m³ (1.55 yd³) with tips K080 and CW-30-H.4.N quick coupler with a tip radius of 1688 mm (5'6").

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