

Cat[®] 302 CR

MINI EXCAVATOR

FEATURES:

The Cat® 302 CR Mini Excavator delivers power and performance in a compact size to help you work in a wide range of applications.

ALL DAY COMFORT

 Choose either a canopy or a sealed and pressurized cab equipped with air conditioning, adjustable wrist rests, and a suspension seat option to help keep you working comfortably all day long.

EASY TO OPERATE

 Controls are easy to use and the intuitive Next Generation LCD monitor provides easy to read machine information.

STICK STEER TRAVEL MODE

Moving around the job site is even easier with the Cat Stick Steer option. Easily switch from traditional travel controls with levers and pedals to joystick controls with a push of a button. The benefit of less effort and improved control is in your hands!

BIG PERFORMANCE IN A COMPACT DESIGN

Strong lift and dig performance helps you get the job done faster. The compact radius design and retractable undercarriage lets you access and work in the tightest areas. Dig-to-blade and dozer float features allow for easy clean up.

SAFETY ON THE JOB SITE

Your safety is our top priority. The Cat mini excavator is designed to help keep you safe on the job. Courtesy work lights and a fluorescent retractable seat belt are just a couple of the safety features we've built into the machine.

SIMPLE SERVICE FOR LESS DOWNTIME

 Maintenance is quick and easy on the Cat mini excavator. Routine check points are easy to access at ground level through the side doors. The unique tilt up cab lets you reach additional service areas when needed

LOWER OPERATING COSTS

 Equipped with features such as auto idle, auto engine shutdown, and efficient hydraulics with a variable displacement pump, the Cat mini excavator was designed with reducing your operating costs in mind.

UNMATCHED DEALER SUPPORT

Your Cat dealer is here to help you reach your business goals. From providing equipment solutions to operator training to service needs and beyond, your Cat dealer is ready to help.

Specifications

Engine

Liigiiio		
Engine Model	C1.1	
Net Power @ 2,400 rpm		
ISO 9249, 80/1269/EEC	15.7 kW	21 hp
Gross Power		
SAE J1995:2014	16.1 kW	21.6 hp
Bore	77.0 mm	3.0 in
Stroke	81.0 mm	3.2 in
Displacement	1.1 L	69.0 in ³

- Meets U.S. EPA Tier 4 Final and EU Stage V emission standards.
- Net power is tested per ISO 9249:2007 and 80/1269/EEC.
- Engine power is tested per ISO 14396:2002.
- Net power advertised is the power available at the flywheel when the engine is at rated speed and rated power when the engine is installed with the factory configured fan, air intake system, exhaust system, and alternator with a minimum alternator load.

Weights

110.9		
Minimum Operating Weight with Canopy*	1918 kg	4,229 lb
Maximum Operating Weight with Canopy**	2081 kg	4,588 lb
Minimum Operating Weight with Cab*	2057 kg	4,535 lb
Maximum Operating Weight with Cab**	2262 kg	4,987 lb
EU: CE Plate Weight with Canopy***	2045 kg	4,508 lb
EU: CE Plate Weight with Cab***	2140 kg	4,718 lb

- *Minimum Weight is based on rubber tracks, operator, fixed undercarriage and full fuel tank.
- **Maximum Weight is based on steel tracks, operator, expandable undercarriage and full fuel tank.
- ***CE Plate Weight is based on the most common EU configuration.
 Includes 75 kg (165 lb) operator and full fuel tank and excludes bucket.

Weight Increase from Minimum Configuration

Long Stick	8 kg	18 lb
Steel Tracks	60 kg	132 lb
Expandable Undercarriage	96 kg	212 lb



302 CR Mini Excavator

Travel System

Travel Speed – High	4.4 km/h	2.7 mph
Travel Speed – Low	2.9 km/h	1.8 mph
Maximum Traction Force – High Speed	13.2 kN	2,967.5 lbf
Maximum Traction Force – Low Speed	20.0 kN	4,496.2 lbf
Ground Pressure – Minimum Weight	23.7 kPa	3.4 psi
Ground Pressure – Maximum Weight	26.8 kPa	3.9 psi
Gradeability (maximum)	30 degrees	

Service Refill Capacities

3.9 L	1.0 gal
4.4 L	1.2 gal
26.0 L	6.9 gal
18.0 L	4.8 gal
26.0 L	6.9 gal
	4.4 L 26.0 L 18.0 L

Hydraulic System

Load Sensing Hydraulics with Variable Disp	lacement Pisto	n Pump				
Pump Flow @ 2,400 rpm 66 L/min 17.4 gal/min						
Operating Pressure – Equipment	245 bar	3,553.4 psi				
Operating Pressure – Travel	245 bar	3,553.4 psi				
Operating Pressure – Swing	147 bar	2,132.1 psi				
Auxiliary Circuit – Primary						
Flow	33 L/min	8.7 gal/min				
Pressure	245 bar	3,553.4 psi				
Auxiliary Circuit – Secondary						
Flow	14 L/min	3.7 gal/min				
Pressure	245 bar	3,553.4 psi				
Digging Force – Stick (standard)	11.3 kN	2,540.3 lbf				
Digging Force – Stick (long)	9.8 kN	2,203.1 lbf				
Digging Force – Bucket	19.6 kN	4,406.3 lbf				

Swing System

Machine	Swing Sp	eed	9.8 rpm
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Blade

Width*	1090 mm	42.9 in
Height	225 mm	8.9 in

^{*}Expanded - 1400 mm (55 in)

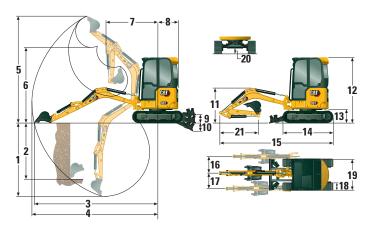
Certification – Cab and Canopy

Roll Over Protective Structure (ROPS)	ISO 12117-2:2008
Tip Over Protective Structure (TOPS)	ISO 12117:1997
Top Guard	ISO 10262:1998 (Level I)

Sound

Journa		
Operator Sound Pressure (ISO 6396:2008)	73 dB(A)	
Average Exterior Sound Pressure (ISO 6395:2008)	93 dB(A)	

• European Union Directive "2000/14/EC"



Dimensions

ווע	11011210112		
		Standard Stick	Long Stick
1	Dig Depth	2370 mm (93.3 in)	2570 mm (101.2 in)
2	Vertical Wall	1850 mm (72.8 in)	1940 mm (76.4 in)
3	Maximum Reach at Ground Level	4040 mm (159.1 in)	4210 mm (165.7 in)
4	Maximum Reach	4110 mm (161.8 in)	4270 mm (168.1 in)
5	Maximum Dig Height	3550 mm (139.8 in)	3620 mm (142.5 in)
6	Maximum Dump Clearance	2560 mm (100.8 in)	2640 mm (103.9 in)
7	Boom in Reach	1660 mm (65.4 in)	1660 mm (65.4 in)
8	Tail Swing	750 mm (29.5 in)	750 mm (29.5 in)
9	Maximum Blade Height	285 mm (11.2 in)	285 mm (11.2 in)
10	Maximum Blade Depth	295 mm (11.6 in)	295 mm (11.6 in)
11	Boom Height in Shipping Position	1070 mm (42.1 in)	1020 mm (40.2 in)
12	Overall Shipping Height	2300 mm (90.6 in)	2300 mm (90.6 in)
13	Swing Bearing Height	442 mm (17.4 in)	442 mm (17.4 in)
14	Overall Undercarriage Length	1850 mm (72.8 in)	1850 mm (72.8 in)
15	Overall Shipping Length†	3900 mm (153.5 in)	3880 mm (152.8 in)
16	Boom Swing Right	50 degrees	50 degrees
17	Boom Swing Left	65 degrees	65 degrees
18	Track Belt/Shoe Width	250 mm (9.8 in)	250 mm (9.8 in)
19	Track Width		
	Retracted	1090 mm (42.9 in)	1090 mm (42.9 in)
	Expanded	1400 mm (55.12 in)	1400 mm (55.12 in)
20	Minimum Ground Clearance Below Undercarriage	150 mm (5.9 in)	150 mm (5.9 in)
21	Stick Length	960 mm (37.8 in)	1160 mm (45.7 in)

 $\dagger 0 ver all$ Shipping Length depends on blade position during shipment.

<u>Lift Capacities – Minimum Configuration*</u>

			2 m (6.6 ft)		Lift Point Radius (Maximum)				
			0ver	Front	Over Front		Front	ront	
	Lift Point Height		Blade Up	Blade Down	Over Side	Blade Up	Blade Down	Over Side	(ft)
2 m	Standard Stick	kg (lb)				346 (769)	376 (831)	294 (654)	3.3 (10.8)
(6.6 ft)	Long Stick	kg (lb)				301 (665)	301 (665)	269 (598)	3.5 (11.7)
1.5 m	Standard Stick	kg (lb)	549 (1,161)	549 (1,161)	549 (1,161)	311 (687)	370 (817)	264 (584)	3.5 (11.7)
(4.9 ft)	Long Stick	kg (lb)				287 (635)	300 (661)	243 (539)	3.7 (12.5)
1 m	Standard Stick	kg (lb)	711 (1,532)	906 (1,915)	586 (1,265)	293 (648)	380 (836)	249 (550)	3.6 (12.5)
(3.3 ft)	Long Stick	kg (lb)	720 (1,549)	771 (1,628)	594 (1,280)	272 (600)	309 (680)	230 (508)	3.8 (12.5)
0 m	Standard Stick	kg (lb)	675 (1,450)	959 (2,067)	552 (1,189)	296 (653)	388 (856)	251 (553)	3.5 (11.7)
(0 ft)	Long Stick	kg (lb)	668 (1,437)	988 (2,123)	546 (1,176)	273 (602)	366 (806)	230 (508)	3.7 (12.5)

^{*}Minimum Weight includes rubber tracks, canopy, operator, full fuel tank, expanded undercarriage, and no bucket.

Lift Capacities – Maximum Configuration**

				2 m (6.6 ft)			Lift Point Radi	us (Maximum)	
			Over Front			Over Front			m
	Lift Point Height		Blade Up	Blade Down	Over Side	Blade Up	Blade Down	Over Side	(ft)
2 m	Standard Stick	kg (lb)				377 (833)	377 (833)	344 (766)	3.3 (10.8)
(6.6 ft)	Long Stick	kg (lb)				302 (667)	302 (667)	302 (667)	3.5 (11.7)
1.5 m	Standard Stick	kg (lb)	526 (1,444)	526 (1,114)	526 (1,444)	361 (799)	370 (816)	309 (684)	3.5 (11.7)
(4.9 ft)	Long Stick	kg (lb)				300 (660)	300 (660)	286 (633)	3.7 (12.5)
1 m	Standard Stick	kg (lb)	820 (1,765)	890 (1,880)	680 (1,466)	341 (753)	379 (834)	292 (644)	3.6 (12.5)
(3.3 ft)	Long Stick	kg (lb)	749 (1,582)	749 (1,582)	687 (1,482)	308 (678)	308 (678)	271 (598)	3.8 (12.5)
0 m	Standard Stick	kg (lb)	781 (1,678)	964 (2,078)	644 (1,386)	343 (757)	389 (857)	293 (646)	3.5 (11.7)
(0 ft)	Long Stick	kg (lb)	775 (1,666)	992 (2,129)	638 (1,373)	318 (700)	364 (802)	271 (596)	3.7 (12.5)

^{**}Maximum Weight includes steel tracks, canopy, operator, full fuel tank, expanded undercarriage, and no bucket.

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Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional
ENGINE		
Cat C1.1 Engine (U.S. EPA Tier 4 Final/EU Stage V)	✓	
Automatic Engine Idle	✓	
Automatic Engine Shutdown	✓	
Automatic Two Speed Travel	✓	
Fuel Water Separator	✓	
Power on Demand (not available in all regions)	✓	
Variable Displacement Piston Pump	✓	
Load Sensing/Flow Sharing Hydraulics	✓	
HYDRAULICS		
Smart Tech Electronic Pump	✓	
Accumulator	✓	
Automatic Swing Brake	✓	
Auxiliary Hydraulic Lines	✓	
One and Two Way Auxiliary Flow	✓	
Continuous Auxiliary Flow	✓	
Auxiliary Line Quick Disconnects	✓	
OPERATOR ENVIRONMENT		
Tilt-up Canopy or Tilt-Up Cab	✓	
Cab with Air Conditioning	•	
Cab with Heater		
Top Guard ISO 10262:1998 Level I		•
ROPS – ISO 12117-2:2008		
TOPS – ISO 12117-2.2006		
Machine 2-Point Lifting		
<u> </u>		
Stick Steer Mode Travel Cruise Control		
Control Pattern Changer (optional in some regions)		✓
Adjustable Wrist Rests	✓	
Washable Floor Mat	✓	
Travel Pedals and Hand Levers	✓	
No Travel Pedals and Hand Levers		✓
Machine Security	✓	
Standard Key with Pass Code	✓	
Push to Start with Key Fob/Pass Code		✓
Fabric Suspension Seat (Cab only)	✓	
Vinyl Suspension Seat Seat (Canopy only)	✓	
Vinyl Non-Suspension Seat Seat (Canopy only)		✓
Hydraulic Lockout – All Controls	✓	
Retractable High Visibility Seat Belt (75 mm/3 in)	✓	
Coat Hook	✓	
Cup Holder	✓	
Storage Pocket	✓	
Skylight	✓	
Mounting Bosses for Front	✓	
Signaling/Warning Horn	✓	
Interior Light (Cab only)	✓	
Boom Light, Halogen	✓	
LED Front Lights		√
LED Front and Rear Lights		<u> </u>
LED Boom Light		· ·
LLD DOOM LIGHT		•
Utility Space for Mobile Phone	√	

	Standard	Optiona
OPERATOR ENVIRONMENT (continued)		
Radio – Bluetooth®, Auxiliary, Microphone,		✓
USB (charging only) (Cab only)		
Next Generation Color LCD Monitor (IP66)	√	
- Fuel Level and Coolant Temperature Gauges	✓	
- Maintenance and Machine Monitoring	✓	
- Performance and Machine Adjustments	✓	
- Numeric Security Code	✓	
– Multiple Languages	✓	
– Hour Meter with Wake Up Switch	✓	
UNDERCARRIAGE		
Expandable Undercarriage	✓	
Rubber Belt (250 mm/10 in wide)	✓	
Steel Track (250 mm/10 in wide)		✓
Dozer Blade	✓	
Dozer Blade Float	✓	
Hydraulic Track Adjusters	✓	
Tie Downs on Track Frame	✓	
BOOM, STICK AND LINKAGES		
One Piece Boom (1850 mm/73 in)	✓	
Standard Stick (960 mm/37.8 in)	✓	
Long Stick (1160 mm/45.7 in)		✓
Front Shovel Capable	✓	
Pin-On	✓	
Dual Lock Manual Coupler		✓
Thumb Ready (not available in all regions)	✓	
Certified Lifting Eye (optional in some regions)	✓	
Attachments including Couplers, Thumbs, Buckets,		✓
Augers and Hammers		
2nd Auxiliary Hydraulic Lines		✓
Boom Lowering Check Valve		✓
Stick Lowering Check Valve		✓
Hydraulic Quick Coupler Lines		✓
(not available in all regions)		
ELECTRICAL		
12 Volt Battery	✓	
Software (machine and monitor)	✓	
Maintenance Free Battery	✓	
Battery Disconnect		✓
Signaling/Warning Horn	✓	
12 Volt Power Socket	✓	
Product Link PL243 (regulations apply)		✓
Product Link PLE643 (regulations apply)		✓
Travel Alarm (standard in some regions)		✓
GUARDING		
Guard, Canopy		✓
Guard, Mesh		✓
OTHER		
J I I I E I E E E E E E E E E E E E E E		
Bio Oil Capable		v

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

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