



Cat[®] 301.7 CR

MINI EXCAVATOR

FEATURES:

The Cat[®] 301.7 CR Mini Excavator delivers power and performance in a compact size to help you work in a wide range of applications.

ALL DAY COMFORT

- Adjustable wrist rests and a suspension seat 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 canopy 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

Engine Model	C1.1
Rated Net Power @ 2,400 rpm ISO 9249/EEC 80/1269	14.3 kW
Gross Power ISO 14396	16.1 kW
Bore	77.0 mm
Stroke	81.0 mm
Displacement	1.1 L

Weights

Minimum Operating Weight with Canopy*	1785 kg
Maximum Operating Weight with Canopy**	1835 kg

*Minimum Weight is based on rubber tracks, canopy, operator and full fuel tank.

**Maximum Weight is based on steel tracks, canopy, operator and full fuel tank.

Weight Increase from Minimum Configuration

Long Stick	10 kg
Steel Tracks	50 kg



301.7 CR Mini Excavator

Travel System

Travel Speed – High	4.4 km/h
Travel Speed – Low	2.9 km/h
Maximum Traction Force – High Speed	11.9 kN
Maximum Traction Force – Low Speed	18.4 kN
Ground Pressure – Minimum Weight	27.9 kPa
Ground Pressure – Maximum Weight	28.7 kPa
Gradeability (maximum)	30 degrees

Service Refill Capacities

Cooling System	3.9 L
Engine Oil	4.4 L
Fuel Tank	22.0 L
Hydraulic Tank	18.0 L
Hydraulic System	26.0 L

Hydraulic System

Load Sensing Hydraulics with Variable Displacement Piston Pump	
Pump Flow @ 2,400 rpm	66 L/min
Operating Pressure – Equipment	245 bar
Operating Pressure – Travel	245 bar
Operating Pressure – Swing	147 bar
Auxiliary Circuit – Primary	
Flow	33 L/min
Pressure	245 bar
Auxiliary Circuit – Secondary	
Flow	14 L/min
Pressure	245 bar
Digging Force – Stick (standard)	9.5 kN
Digging Force – Stick (long)	8.3 kN
Digging Force – Bucket	16.2 kN

Swing System

Machine Swing Speed	9.8 rpm
---------------------	---------

Blade

Width*	990 mm
Height	225 mm

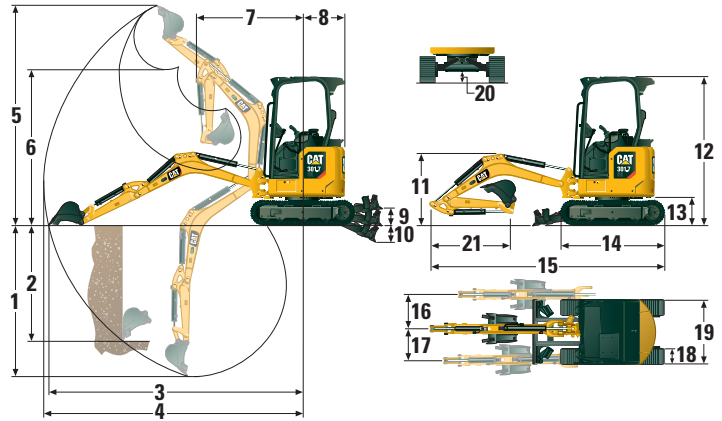
*Expanded – 1300 mm

Certification – Canopy

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

Sound

Average Exterior Sound Pressure (ISO 6395: 2008)	93 dB(A)
---	----------



Dimensions

	Standard Stick	Long Stick
1 Dig Depth	2350 mm	2540 mm
2 Vertical Wall	1800 mm	1890 mm
3 Maximum Reach at Ground Level	3900 mm	4060 mm
4 Maximum Reach	3970 mm	4130 mm
5 Maximum Dig Height	3430 mm	3490 mm
6 Maximum Dump Clearance	2450 mm	2510 mm
7 Boom in Reach	1630 mm	1620 mm
8 Tail Swing	650 mm	650 mm
9 Maximum Blade Height	270 mm	270 mm
10 Maximum Blade Depth	265 mm	265 mm
11 Boom Height in Shipping Position	1090 mm	1040 mm
12 Overall Shipping Height	2300 mm	2300 mm
13 Swing Bearing Height	442 mm	442 mm
14 Overall Undercarriage Length	1590 mm	1590 mm
15 Overall Shipping Length	3620 mm	3590 mm
16 Boom Swing Right	50 degrees	50 degrees
17 Boom Swing Left	65 degrees	65 degrees
18 Track Belt/Shoe Width	230 mm	230 mm
19 Track Width		
Retracted	990 mm	990 mm
Expanded	1300 mm	1300 mm
20 Minimum Ground Clearance Below Undercarriage	150 mm	150 mm
21 Stick Length	960 mm	1160 mm

Lift Capacities – Minimum Configuration*

Lift Point Height			1.5 m			2 m			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
2 m	Standard Stick	kg							336	232	246	3.1
	Long Stick	kg							268	210	223	3.3
1.5 m	Standard Stick	kg				442	442	442	329	204	217	3.3
	Long Stick	kg							265	186	199	3.5
1 m	Standard Stick	kg				775	435	458	336	190	203	3.4
	Long Stick	kg				636	441	464	273	174	186	3.6
0 m	Standard Stick	kg				938	398	422	398	189	202	3.4
	Long Stick	kg	613	613	613	946	394	417	323	172	185	3.6

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

Lift Capacities – Maximum Configuration**

Lift Point Height			1.5 m			2 m			Lift Point Radius (Maximum)			
			Over Front		Over Side	Over Front		Over Side	Over Front		Over Side	m
			Blade Down	Blade Up		Blade Down	Blade Up		Blade Down	Blade Up		
2 m	Standard Stick	kg							336	240	255	3.1
	Long Stick	kg							268	217	231	3.3
1.5 m	Standard Stick	kg				442	442	442	329	212	225	3.3
	Long Stick	kg							265	193	206	3.5
1 m	Standard Stick	kg				775	449	474	336	197	211	3.4
	Long Stick	kg				636	455	480	273	181	194	3.6
0 m	Standard Stick	kg				938	413	438	398	197	210	3.4
	Long Stick	kg	613	613	613	946	408	433	323	179	192	3.6

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

301.7 CR Mini Excavator

EQUIPMENT

ENGINE

- Cat C1.1 Engine (China Nonroad Stage III)
- Automatic Engine Idle
- Automatic Engine Shutdown
- Automatic Two Speed Travel
- Fuel Water Separator
- Power on Demand
- 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

OPERATOR ENVIRONMENT

- Canopy Only
- ROPS – ISO 12117-2: 2008
- TOPS – ISO 12117: 1997
- Top Guard – ISO 10262: 1998 (Level II)
- Next Generation Standard LCD Monitor
- Machine Security – Standard Key with Pass Code or Push to Start with Fob
- Adjustable Wrist Rests
- Vinyl Seat (with or without suspension)
- Retractable High Visibility Seat Belt (75 mm)
- Coat Hook
- Cup Holder
- Storage Pocket
- Skylight
- Washable Floor Mat
- Next Generation Stick Steer
- Hydraulic Lockout – All Controls
- Machine 2-Point Lifting
- Tilt-up Canopy

UNDERCARRIAGE

- Expandable Undercarriage
- Rubber Belt or Steel Track (230 mm wide)
- Dozer Blade with Float
- Tie Downs on Track Frame

BOOM, STICK AND LINKAGES

- One Piece Boom (1780 mm)
- Standard Stick (960 mm) or Long Stick (1160 mm)
- Front Shovel Capable

ELECTRICAL

- 12 Volt Battery
- Software (machine and monitor)
- Maintenance Free Battery
- Warning Horn
- 12 Volt Power Socket
- Boom Light, Halogen
- Pattern Changer
- Battery Disconnect
- Product Link™

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

- Mirrors Left and Right

ELECTRICAL

- LED Front Lights
- LED Front and Rear Lights
- LED Boom Light

OTHER

- Buckets
- Travel Alarm
- Water Jacket Heater
- Eco Drain

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

© 2018 Caterpillar
All rights reserved

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

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, “Caterpillar Yellow” and the “Power Edge” trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

AEHQ8121-01 (09-2018)
Replaces AEHQ8121
(China)

