



Cat[®] 306.5

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat[®] 306.5 Mini Excavator delivers maximum power and performance in a mini size to help you work in a wide range of applications.

ALL DAY COMFORT

- A sealed and pressurized cab is equipped with an improved air conditioning system, adjustable wrist rests and a suspension seat 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 customizable machine operator preferences and easy to read machine information.

STICK STEER TRAVEL MODE

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

BIG PERFORMANCE IN A MINI DESIGN

- Increased lifting and multi-functioning performance helps you get the job done more efficiently, and dig-to-blade allows 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 with optional seat belt reminder system are just a few 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 service panels.

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.



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Specifications

Engine

Engine Model	Cat C2.4 Turbo
Net Power @ 2,400 rpm	
ISO 9249, 80/1269/EEC	41.7 kW
Engine Power	
ISO 14396	43.2 kW
Bore	87 mm
Stroke	102 mm
Displacement	2.43 L
<ul style="list-style-type: none">• Meets China Nonroad Stage IV emission standard.• Advertised power is tested per the specified standard in effect at the time of manufacture.• Net power advertised is the power available at the flywheel when the engine is at the rated speed of 2,400 rpm and the engine is installed with the factory configured fan, air intake system, exhaust system and alternator with a minimum alternator load.	

Weights

Minimum Operating Weight with Cab*	6175 kg
Maximum Operating Weight with Cab**	6430 kg
*Minimum Weight: steel tracks, no extra counterweight, operator, full fuel tank, standard stick, blade, bucket.	
**Maximum Weight: steel tracks, extra counterweight, operator, full fuel tank, standard stick, blade, bucket.	

Weight Increase from Minimum Configuration

Counterweight	250 kg
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Travel System

Travel Speed – High	5.0 km/h
Travel Speed – Low	3.1 km/h
Maximum Traction Force – High Speed	31 kN
Maximum Traction Force – Low Speed	51 kN
Ground Pressure	33.7 kPa
Gradeability (maximum)	30 degrees

Service Refill Capacities

Cooling System	10.0 L
Engine Oil	9.5 L
Fuel Tank	105 L
Hydraulic Tank	53 L
Hydraulic System	104 L

Hydraulic System

Load sensing hydraulics with variable displacement piston pump	
Pump Flow @ 2,400 rpm	151 L/min
Operating Pressure – Equipment	252 bar
Operating Pressure – Travel	252 bar
Operating Pressure – Swing	210 bar
Auxiliary Circuit – Primary	
Flow	98 L/min
Pressure	186 bar
Digging Force – Stick (long)	29.1 kN
Digging Force – Bucket	41.1 kN

Swing System

Machine Swing Speed	11.3 rpm
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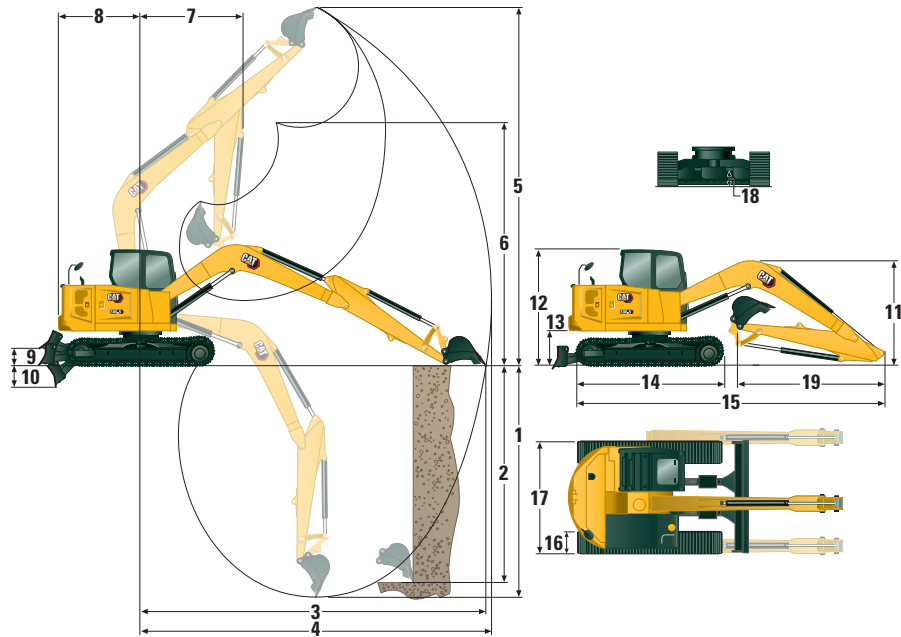
Blade

Width	1980 mm
Height	375 mm

Certification – Cab

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

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Dimensions

	Standard Stick
1 Dig Depth	3902 mm
2 Vertical Wall	2414 mm
3 Maximum Reach at Ground Level	5975 mm
4 Maximum Reach	6090 mm
5 Maximum Dig Height	5490 mm
6 Maximum Dump Clearance	3870 mm
7 Boom in Reach	2126 mm
8 Tail Swing	1585 mm
9 Maximum Blade Height	420 mm
10 Maximum Blade Depth	615 mm
11 Boom Height in Shipping Position	2206 mm
12 Cab Height	2540 mm
13 Swing Bearing Height	657 mm
14 Overall Undercarriage Length	2532 mm
15 Overall Shipping Length	5789 mm
16 Track Belt/Shoe Width	400 mm
17 Overall Track Width	1980 mm
Width over Upper House	1950 mm
18 Ground Clearance	306 mm
19 Stick Length	1650 mm

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Lift Capacities – Minimum Configuration

Lift Point Height			Lift Point radius (3 m)			Lift Point radius (4.5 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		
4.5 m	Long Stick	kg							*925	*925	*925	3.98
3 m	Long Stick	kg				*920	*920	*920	*915	*915	*915	4.99
1.5 m	Long Stick	kg	*1705	*1705	*1705	*1090	*1090	*1090	*950	*950	720	5.35
0 m	Long Stick	kg	*2115	*2115	1690	*1230	*1230	920	*1000	*1000	725	5.24

*Minimum Weight: Steel tracks, cab, operator, full fuel tank, no counterweight, standard bucket.

Lift Capacities – Maximum Configuration

Lift Point Height			Lift Point radius (3 m)			Lift Point radius (4.5 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		
4.5 m	Long Stick	kg							*925	*925	*925	3.98
3 m	Long Stick	kg				*920	*920	*920	*915	*915	*915	4.99
1.5 m	Long Stick	kg	*1705	*1705	*1705	*1090	*1090	*1090	*950	*950	720	5.35
0 m	Long Stick	kg	*2115	*2115	*2115	*1230	*1230	1050	*1000	*1000	830	5.24

*Maximum Weight: steel tracks, cab, operator, full fuel tank, counterweight, standard bucket.

Standard and Optional Equipment

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

	Standard	Optional		Standard	Optional
ENGINE			OPERATOR ENVIRONMENT – CAB (continued)		
Cat C2.4 Diesel Engine (Meets China Stage IV Emission Standard) – Electronic Engine, Turbo	✓		Operator Sound Pressure 72 dB(A) ISO 6396:2008	✓	
Diesel Particulate Filter (DPF)	✓		HVAC with Automatic Temperature Control	✓	
Automatic Engine Idle	✓		Integrated Lower Front Window	✓	
Automatic Engine Shutdown	✓		Assisted Front Window Overhead Storage	✓	
Automatic Swing Brake	✓		Rear Window Emergency Exit	✓	
Automatic Two Speed Travel	✓		LED Interior Light	✓	
Fuel Water Separator with Indicator	✓		12V Power Socket	✓	
Radial Seal – Double Element Air Filter	✓		Radio – Bluetooth®, Auxiliary, Microphone, USB (charging only)	✓	
Extended Life Coolant, –37° C (–37° F)	✓		Skylight	✓	
HYDRAULICS			Jog dial interface	✓	
Electronic Variable Displacement	✓		Suspension Seat	✓	
Piston Pump	✓		UNDERCARRIAGE		
Load Sensing/Flow Sharing Hydraulics	✓		Greased and Lubricated Track	✓	
Power On Demand	✓		Hydraulic Track Adjusters	✓	
Hydraulic Temperature Monitoring	✓		Tie Down Eyes on Track Frame	✓	
Certified Accumulator	✓		Dozer Straight Blade	✓	
HYDO™ Advanced Hydraulic Oil	✓		Dozer Float	✓	
OPERATOR ENVIRONMENT – CAB			Bolt-on, Reversible Wear Edge	✓	
Top Guard ISO 10262:1998 Level I	✓		Steel Tracks (400 mm/15.75 in wide)	✓	
ROPS ISO 12117-2:2008	✓				
Stick Steer Mode	✓				
Travel Cruise Control	✓				
Control Pattern Changer	✓				
Adjustable Wrist Rests	✓				
Molded Footrests	✓				
Removable, Washable Floor Mat	✓				
Travel Pedals and Hand Levers	✓				
Cat Key with Passcode Option	✓				
Hydraulic Lockout Controls	✓				
High Back, Suspension Seat	✓				
Retractable Seat Belt (75 mm/3 in)	✓				
Seat Belt Reminder System		✓			
Coat Hook	✓				
Cup Holder	✓				
Literature Holder	✓				
Mounting Bosses for Top and Front Guards	✓				
Signaling/Warning Horn	✓				
Cab and (left side) Boom Work Lights	✓				
Utility Space for Mobile Phone	✓				
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	✓				

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Standard and Optional Equipment *(continued)*

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

	Standard	Optional		Standard	Optional
BOOM, STICK AND LINKAGES			GUARDING		
One Piece Boom (3200 mm/126 in)	✓		Top Guard ISO 10262:1998 (Level II)		✓
Standard Stick (1650 mm/65 in)	✓		Front Guard (Heavy Duty) ISO 10262:1998 (Level II)		✓
Front Shovel Capable – Pin-on/Manual Coupler/Hydraulic Coupler for Cat Tools	✓		OTHER		
Bucket (0.25 m ³ /0.33 yd ³)	✓		Locks on External Enclosure Doors	✓	
Hammer		✓	Lockable Fuel Cap	✓	
ELECTRICAL			Beacon Socket	✓	
12 Volt Electrical System	✓		Rear Reflectors	✓	
90 Ampere Alternator	✓				
650 CCA Maintenance Free Battery	✓				
Battery Disconnect	✓				
Circuit Breaker	✓				
Ignition Key Stop Switch	✓				
Signaling/Warning Horn	✓				
Product Link Elite (regulations apply)	✓				

The following information applies to the machine at the time of final manufacture as configured for sale in the regions covered in this document. The content of this declaration is valid as of the date issued; however, content related to machine features and specifications are subject to change without notice. For additional information, please see the machine's Operation and Maintenance Manual.

For more information on sustainability in action and our progress, please visit <https://www.caterpillar.com/en/company/sustainability>.

Engine

- The Cat® C2.4 Turbo Diesel Engine meets China Nonroad Stage IV emission standards.
- Cat diesel engines are required to use ULSD (ultra-low sulfur diesel fuel with 15 ppm of sulfur or less) or ULSD blended with the following lower-carbon intensity fuels up to:
 - ✓ 20% biodiesel FAME (fatty acid methyl ester)
 - ✓ 100% renewable diesel, HVO (hydrogenated vegetable oil) and GTL (gas-to-liquid) fuels
 Refer to guidelines for successful application. Please consult your Cat dealer or "Caterpillar Machine Fluids Recommendations" (SEBU6250) for details.

Air Conditioning System

- The air conditioning system on this machine contains the fluorinated greenhouse gas refrigerant R134a (Global Warming Potential = 1430). The system contains 0.9 kg (1.98 lb) of refrigerant which has a CO₂ equivalent of 1.287 metric tonnes (1.419 tons).

Paint

- Based on best available knowledge, the maximum allowable concentration, measured in parts per million (PPM), of the following heavy metals in paint are:
 - Barium < 0.01%
 - Cadmium < 0.01%
 - Chromium < 0.01%
 - Lead < 0.01%

Sound Performance

Operator Sound Pressure* 72 dB(A) (ISO 6396:2008)
 Average Exterior Sound Pressure** 99 dB(A) (ISO 6395:2008)

- *The declared dynamic operator sound pressure levels per ISO 6396:2008. The measurements were conducted with the cab doors and windows closed.
- **The labeled sound power level for the CE marked configurations when measured according to the test procedure and conditions specified in 2000/14/EC.

Oils and Fluids

- Caterpillar factory fills with ethylene glycol coolants. Cat Diesel Engine Antifreeze/Coolant (DEAC) and Cat Extended Life Coolant (ELC) can be recycled. Consult your Cat dealer for more information.
- Additional fluids are likely to be present, please consult the Operations and Maintenance Manual or the Application and Installation guide for complete fluid recommendations and maintenance intervals.

Features and Technology

- The following features and technology may contribute to fuel savings and/or carbon reduction. Features may vary. Consult your Cat dealer for details.
 - Advanced hydraulic systems balance power and efficiency
 - Power On Demand provides full time efficiency and power when you need it and is transparent to the operator
 - Auto idle and auto engine shutdown
 - Extended maintenance intervals reduce fluid and filter consumption
 - Remote Flash and Remote Troubleshoot (if equipped)

Recycling

- The materials included in machines are categorized as below with approximate weight percentage. Because of variations of product configurations, the following values in the table may vary.

Material Type	Weight Percentage
Steel	65.52%
Iron	21.19%
Rubber	3.50%
Mixed Metal	2.20%
Other	1.89%
Nonferrous Metal	1.81%
Plastic	1.55%
Fluid	1.47%
Mixed-Metal and Nonmetal	0.85%
Mixed Nonmetallic	0.01%
Uncategorized	0.00%
Total	100.00%

- A machine with higher recyclability rate will ensure more efficient usage of valuable natural resources and enhance End-of-Life value of the product. According to ISO 16714:2008 (Earth-moving machinery – Recyclability and recoverability – Terminology and calculation method), recyclability rate is defined as percentage by mass (mass fraction in percent) of the new machine potentially able to be recycled, reused or both.

All parts in the bill of material are first evaluated by component type based on a list of components defined by the ISO 16714:2008 and Japan CEMA (Construction Equipment Manufacturers Association) standards. Remaining parts are further evaluated for recyclability based on material type.

Because of variations of product configurations, the following values in the table may vary.

Recyclability – 96%

- The data provided above was based on the product configuration as provided by the individual product group.

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

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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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