



Cat[®] 307.5

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat[®] 307.5 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 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 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 MINI DESIGN

- Increased lifting, swinging, travel 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. A back-up camera, courtesy work lights and a fluorescent retractable seat belt 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 with grouped service points and robust 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.

Specifications

Engine

| | | |
|--|----------------|---------------------|
| Engine Model | Cat C2.4 Turbo | |
| Rated Net Power @ 2,400 rpm | | |
| China Nonroad Stage III, Brazil MAR-1, Equivalent to EU Stage IIIA ISO 9249/EEC 80/1269 | 34.9 kW | 46.8 hp |
| Gross Power | | |
| SAE J1995 | 36.5 kW | 48.9 hp |
| Bore | 87 mm | 3.4 in |
| Stroke | 102 mm | 4 in |
| Displacement | 2.43 L | 148 in ³ |

Weights

| | | |
|-------------------------------------|---------|-----------|
| Minimum Operating Weight with Cab* | 7532 kg | 16,605 lb |
| Maximum Operating Weight with Cab** | 8233 kg | 18,152 lb |

*Minimum Weight is based on steel tracks, no counterweight, operator, full fuel tank, standard stick, blade and no bucket.

**Maximum Weight is based on steel tracks with rubber pads, counterweight, operator, full fuel tank, long stick, blade and no bucket.

Weight Increase from Minimum Configuration

| | | |
|------------------------|--------|--------|
| Counterweight | 250 kg | 552 lb |
| Long Stick | 82 kg | 181 lb |
| Steel Tracks with Pads | 285 kg | 628 lb |



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Travel System

| | | |
|-------------------------------------|------------|-----------|
| Travel Speed – High | 5.0 km/h | 3.1 mph |
| Travel Speed – Low | 3.1 km/h | 1.9 mph |
| Maximum Traction Force – High Speed | 26.1 kN | 5,856 lb |
| Maximum Traction Force – Low Speed | 62.4 kN | 14,035 lb |
| Ground Pressure – Minimum Weight | 32.7 kPa | 5 psi |
| Ground Pressure – Maximum Weight | 35.7 kPa | 5 psi |
| Gradeability (maximum) | 30 degrees | |

Service Refill Capacities

| | | |
|------------------|-------|---------|
| Cooling System | 10 L | 2.6 gal |
| Engine Oil | 9.5 L | 2.5 gal |
| Fuel Tank | 145 L | 38 gal |
| Hydraulic Tank | 53 L | 14 gal |
| Hydraulic System | 104 L | 27 gal |

Hydraulic System

| | | |
|--|-----------|------------|
| Load Sensing Hydraulics with Variable Displacement Piston Pump | | |
| Pump Flow @ 2,400 rpm | 167 L/min | 44 gal/min |
| Operating Pressure – Equipment | 285 bar | 4,134 psi |
| Operating Pressure – Travel | 285 bar | 4,134 psi |
| Operating Pressure – Swing | 250 bar | 3,626 psi |
| Auxiliary Circuit – Primary | | |
| Flow | 131 L/min | 35 gal/min |
| Pressure | 285 bar | 4,134 psi |
| Auxiliary Circuit – Secondary | | |
| Flow | 33 L/min | 9 gal/min |
| Pressure | 285 bar | 4,134 psi |
| Digging Force – Stick (standard) | 37.8 kN | 8,504 lb |
| Digging Force – Stick (long) | 33.7 kN | 7,579 lb |
| Digging Force – Bucket | 54.6 kN | 12,272 lb |

Swing System

| | |
|---------------------|--------|
| Machine Swing Speed | 10 rpm |
|---------------------|--------|

Blade

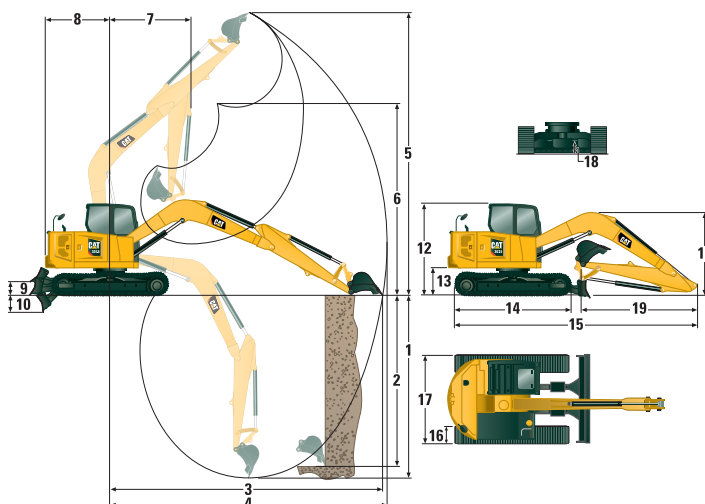
| | | |
|--------|---------|-------|
| Width | 2280 mm | 90 in |
| Height | 431 mm | 17 in |

Certification – Cab

| | |
|---------------------------------------|---------------------------|
| 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

| | |
|--|----------|
| Operator Sound Pressure (ISO 6396:2008) | 72 dB(A) |
| Average Exterior Sound Pressure (ISO 6395:2008) | 98 dB(A) |



Dimensions

| | Standard Stick | Long Stick |
|---------------------------------|------------------|------------------|
| 1 Dig Depth | 4107 mm (162 in) | 4649 mm (183 in) |
| 2 Vertical Wall | 3604 mm (142 in) | 4120 mm (162 in) |
| 3 Maximum Reach at Ground Level | 6152 mm (242 in) | 6671 mm (263 in) |
| 4 Maximum Reach | 6297 mm (248 in) | 6805 mm (268 in) |
| 5 Maximum Dig Height | 7341 mm (289 in) | 7758 mm (305 in) |
| 6 Maximum Dump Clearance | 5293 mm (208 in) | 5710 mm (225 in) |
| 7 Boom in Reach | 1681 mm (66 in) | 2250 mm (89 in) |
| 8 Tail Swing | | |
| with Counterweight | 1995 mm (79 in) | 1995 mm (79 in) |
| without Counterweight | 1800 mm (71 in) | 1800 mm (71 in) |
| 9 Maximum Blade Height | 363 mm (14 in) | 363 mm (14 in) |
| 10 Maximum Blade Depth | 414 mm (16 in) | 414 mm (16 in) |
| 11 Transport Height | 2558 mm (101 in) | 2656 mm (105 in) |
| 12 Cab Height | 2534 mm (100 in) | 2534 mm (100 in) |
| 13 Swing Bearing Height | 756 mm (30 in) | 756 mm (30 in) |
| 14 Overall Undercarriage Length | 2760 mm (109 in) | 2760 mm (109 in) |
| 15 Overall Shipping Length | 6144 mm (242 in) | 6257 mm (246 in) |
| 16 Track Belt/Shoe Width | 450 mm (18 in) | 450 mm (18 in) |
| 17 Overall Track Width | 2200 mm (87 in) | 2200 mm (87 in) |
| Width over Upper House | 2250 mm (89 in) | 2250 mm (89 in) |
| 18 Ground Clearance | 370 mm (15 in) | 370 mm (15 in) |
| 19 Stick Length | 1665 mm (66 in) | 2208 mm (87 in) |

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Lift Capacities – Minimum Configuration*

| Lift Point Height | | | 3 m (9.8 ft) | | | 4.5 m (14.8 ft) | | | Lift Point Radius (Maximum) | | | |
|-------------------|----------------|---------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------------------|--------------|--------------|-------------|
| | | | Over Front | | Over Side | Over Front | | Over Side | Over Front | | Over Side | m (ft) |
| | | | Blade Down | Blade Up | | Blade Down | Blade Up | | Blade Down | Blade Up | | |
| 4.5 m (14.8 ft) | Standard Stick | kg (lb) | 2248 (4,956) | 2248 (4,956) | 2257 (4,976) | | | | 1113 (2,454) | 1113 (2,454) | 1113 (2,454) | 4.41 (14.5) |
| | Long Stick | kg (lb) | | | | 1734 (3,823) | 1734 (3,823) | 1759 (3,878) | 1090 (2,403) | 1090 (2,403) | 1090 (2,403) | 5.03 (16.5) |
| 3 m (9.8 ft) | Standard Stick | kg (lb) | 2728 (6,014) | 2728 (6,014) | 2758 (6,080) | 2141 (4,720) | 1646 (3,629) | 1461 (3,221) | 1047 (2,308) | 1047 (2,308) | 1047 (2,308) | 5.17 (17.0) |
| | Long Stick | kg (lb) | 2227 (4,910) | 2227 (4,910) | 2220 (4,894) | 1915 (4,222) | 1915 (4,222) | 1475 (3,252) | 1038 (2,288) | 1038 (2,288) | 1038 (2,288) | 5.71 (18.7) |
| 1.5 m (4.9 ft) | Standard Stick | kg (lb) | 3466 (7,641) | 2899 (6,391) | 2488 (5,485) | 2341 (5,161) | 1551 (3,419) | 1367 (3,014) | 1090 (2,403) | 1090 (2,403) | 1090 (2,403) | 5.43 (17.8) |
| | Long Stick | kg (lb) | 3140 (6,923) | 3140 (6,923) | 2535 (5,589) | 2174 (4,793) | 1545 (3,406) | 1359 (2,996) | 1075 (2,370) | 1075 (2,370) | 845 (1,863) | 5.95 (19.5) |
| 0 m (0 ft) | Standard Stick | kg (lb) | 3678 (8,109) | 2692 (5,935) | 2294 (5,057) | 2401 (5,293) | 1470 (3,241) | 1287 (2,837) | 1250 (2,756) | 1250 (2,756) | 1017 (2,242) | 5.27 (17.3) |
| | Long Stick | kg (lb) | 3594 (7,923) | 2663 (5,871) | 2261 (4,985) | 2339 (5,157) | 1436 (3,166) | 1252 (2,760) | 1207 (2,661) | 980 (2,161) | 847 (1,867) | 5.80 (19.0) |

*Minimum Weight includes steel tracks, no counterweight, operator, full fuel tank, blade and no bucket.

Lift Capacities – Maximum Configuration**

| Lift Point Height | | | 3 m (9.8 ft) | | | 4.5 m (14.8 ft) | | | Lift Point Radius (Maximum) | | | |
|-------------------|----------------|---------|--------------|--------------|--------------|-----------------|--------------|--------------|-----------------------------|--------------|--------------|-------------|
| | | | Over Front | | Over Side | Over Front | | Over Side | Over Front | | Over Side | m (ft) |
| | | | Blade Down | Blade Up | | Blade Down | Blade Up | | Blade Down | Blade Up | | |
| 4.5 m (14.8 ft) | Standard Stick | kg (lb) | 2252 (4,965) | 2252 (4,965) | 2261 (4,985) | | | | 1110 (2,447) | 1110 (2,447) | 1110 (2,447) | 4.43 (14.5) |
| | Long Stick | kg (lb) | | | | 1744 (3,845) | 1744 (3,845) | 1768 (3,898) | 1088 (2,399) | 1088 (2,399) | 1088 (2,399) | 5.05 (16.6) |
| 3 m (9.8 ft) | Standard Stick | kg (lb) | 2743 (6,047) | 2743 (6,047) | 2774 (6,116) | 2145 (4,729) | 2145 (4,729) | 1681 (3,706) | 1047 (2,308) | 1047 (2,308) | 1047 (2,308) | 5.18 (17.0) |
| | Long Stick | kg (lb) | 2252 (4,965) | 2252 (4,965) | 2245 (4,949) | 1920 (4,233) | 1920 (4,233) | 1929 (4,253) | 1038 (2,288) | 1038 (2,288) | 1038 (2,288) | 5.72 (18.8) |
| 1.5 m (4.9 ft) | Standard Stick | kg (lb) | 3477 (7,665) | 3477 (7,665) | 2863 (6,312) | 2345 (5,170) | 1800 (3,968) | 1586 (3,497) | 1092 (2,407) | 1092 (2,407) | 1092 (2,407) | 5.43 (17.8) |
| | Long Stick | kg (lb) | 3155 (6,956) | 3155 (6,956) | 3208 (7,072) | 2179 (4,804) | 1794 (3,955) | 1578 (3,479) | 1077 (2,374) | 1077 (2,374) | 1077 (2,374) | 5.95 (19.5) |
| 0 m (0 ft) | Standard Stick | kg (lb) | 3675 (8,102) | 3136 (6,914) | 2674 (5,895) | 2398 (5,287) | 1720 (3,792) | 1507 (3,322) | 1255 (2,767) | 1255 (2,767) | 1255 (2,767) | 5.26 (17.2) |
| | Long Stick | kg (lb) | 3596 (7,928) | 3596 (7,928) | 2639 (5,818) | 2339 (5,157) | 1685 (3,715) | 1472 (3,245) | 1211 (2,670) | 1211 (2,670) | 1009 (2,224) | 5.79 (19.0) |

**Maximum Weight includes steel tracks with rubber pads, counterweight, operator, full fuel tank, blade and no bucket.

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EQUIPMENT

ENGINE

- Cat C2.4 Diesel Engine (China Nonroad Stage III, Brazil MAR-1, Equivalent to EU Stage IIIA – Electrical Governor and Turbo)
- Automatic Engine Idle
- Automatic Engine Shutdown
- Automatic Swing Brake
- Automatic Two Speed Travel
- Fuel Water Separator with Indicator
- Radial Seal – Double Element Air Filter
- Extended Life Coolant, -37° C (-35° F)

HYDRAULICS

- Smart Tech Electronic Pump
- Variable Displacement Piston Pump
- Load Sensing/Flow Sharing Hydraulics
- Power On Demand
- Hydraulic Temperature Monitoring
- Certified Accumulator
- HYDO Advanced Hydraulic Oil

OPERATOR ENVIRONMENT

- Sealed and Pressurized Cab
- Operator Sound Pressure 72 dB(A) ISO 6396
- 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
- HVAC with Automatic Temperature Control
- Hydraulic Lockout Controls
- Integrated Lower Front Window
- Assisted Front Window Overhead Storage
- Rear Window Emergency Exit
- Fabric, High Back, Suspension Seat
- Retractable Seat Belt (75 mm/3 in)
- Coat Hook
- Cup Holder
- LED Interior Light
- Literature Holder
- 12V Power Socket
- Radio – Bluetooth®, USB, Auxiliary, Microphone
- Skylight
- Mounting Bosses for Top and Front Guards
- ROPS – ISO 12117-2:2008
- TOPS – ISO 12117:1997
- Top Guard – ISO 10262:1998 (Level II)
- Color LCD Monitor
 - Fuel Level and Coolant Temperature Gauges
 - Maintenance and Machine Monitoring
 - Performance and Machine Adjustments
 - Numeric Security Code
 - Multiple Languages
 - Camera Ready
 - Hour Meter with Wake Up Switch
 - Jog Dial Control Interface

UNDERCARRIAGE

- Greased and Lubricated Track
- Hydraulic Track Adjusters
- Tie Down Eyes on Track Frame
- Dozer Blade
- Dozer Float
- Bolt-on, Reversible Wear Edge
- Steel Tracks (450 mm/17.7 in wide)

BOOM, STICK AND LINKAGES

- One Piece Boom (3700 mm/145.7 in)
- Standard Stick (1665 mm/65.6 in) or Long Stick (2200 mm/86.6 in)
- Front Shovel Capable (Pin-On/Manual Coupler/Hydraulic Coupler – not available in all regions)
- Thumb Ready (not available in all regions)
- Certified Lifting Eye (not available in all regions)

ELECTRICAL

- 12 Volt Electrical System
- 60 Ampere Alternator
- 900 CCA Maintenance Free Battery
- Battery Disconnect
- Ignition Key Stop Switch
- Signaling/Warning Horn
- Product Link™ Elite Lite (regulations apply)
- Travel Alarm

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

- Rain Visor
- Air Suspension Heated Seat

ELECTRICAL

- Rearview Camera
- Rotating Beacon

OTHER

- Attachments including Buckets, Augers and Hammers
- Steel Track with Rubber Pads
- Wide Steel Tracks (600 mm/23.6 in)
- 2nd Auxiliary Hydraulic Lines with Case Drain
- Boom and Stick Hose Burst Check Valves
- Bucket Linkage with Lift Eye
- Track Guides
- Water Jacket Heater
- Refueling Pump
- Cab Guarding



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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