

Naturally Aspirated Diesel Engine	
Net Power (ISO 9249) at 2300 rpm	18.6 kW/25.3 hp
Operating Weight	
With canopy	2745 kg
With cab	2850 kg

## Caterpillar® 302.5C Mini Hydraulic Excavator

Designed to deliver reliable performance, versatility and ease of operation.

#### **Performance and Versatility**

**High digging forces and fast cycle times,** ensure that the Cat® C-Series machines deliver the productivity that customers demand.

**Auxiliary lines and connectors fitted as standard,** mean that the Cat 302.5C comes 'ready to work', enabling both one-way (hammer) and two-way (auger) tool operation.

The dozer blade float function enables more efficient clean up and landscaping operations.

**Choice of standard or long stick** enables matching of machine to application.

**High rotation bucket angle** combines good spoil retention and flat back trench characteristics.

**Long reach dozer blade** assists effective site clean up.

#### **Comfort and Ease of Operation**

**Cab and canopy options** are available. The C-Series cab provides a very spacious and comfortable work area with a high feature level as standard.

**Impressive legroom,** air circulation and well positioned, low effort controls give even greater operator comfort.

**Clear, flat floor** offers easy cleaning and maximizes foot space.

Suspension seat as standard.

Lever mounted auxiliary and boom swing controls.

**Automatically applied swing lock** aids machine transportation.

**Optional air conditioning,** or fan and sun blind packages offer further comfort features.

#### **Engineered Durability**

The heavy-duty bodywork and clean lines of the Caterpillar 302.5C ensure long life and reduce maintenance cost in tough, demanding applications.



#### **Low Operating Costs**

**Robust, reliable and easily serviced,** are key attributes of the C-Series design.

**Protected front linkage lines** are routed out of harms way, above the boom and stick.

A tough counterweight and extra thick side panels protect against impact damage.

Large rear doors enable excellent serviceability, whilst low maintenance front linkage pivot joints and well placed grease points reduce time taken for daily checks. **The Cat S•0•S points** assist easy oil sampling for preventative maintenance checks.

**500 hour engine oil change period** helps to keep operating costs down.

**Main implement valve located** beneath hinged side cover for easy access.

#### **Customer Support**

**Caterpillar dealers** offer unmatched customer support with excellent equipment management services and fast parts availability, resulting in maximum uptime and minimum repair costs.

**Equipment maintenance and management services** help optimize performance, reliability and profit.



#### **Operator Station**

Class leading space and high feature levels lead to a comfortable and productive environment.

**The large, spacious cab** of the Caterpillar C-Series offers excellent all round visibility and flat glass throughout for easy and inexpensive replacement.

**Superior operator legroom,** with a clear flat floor and a wide door opening, offers even greater comfort and ease of use.

**'Eye line' instrumentation** provides the operator with a clear view of the machines monitoring system, ensuring fuel level, water temperature, and warning lights are easily seen. A service interval indicator is also included.

**Dozer lever mounted two speed travel control** provides easy operation and increased foot room.

**Dozer float** enables easy ground levelling for landscaping or finishing.

**Adjustable wrist supports** increase operator comfort and reduce fatigue.

**Lever mounted auxiliary and boom swing control** enhance machine controllability and increases operator foot room.

**Automatically applied swing park brake** which aids machine transportation.



## **Work Tools**

Caterpillar's range of buckets and hydraulically powered tools, matched to optimize machine performance.

#### Caterpillar offers a wide range of work tools

to increase the machines versatility even further. These tools are designed to get the best out of the machine and deliver excellent value through high productivity and long life.

Tools on offer include:

- Digging Buckets
- Ditch Cleaning Buckets
- Hydraulic Hammers
- Tilt Ditch Bucket
- Augers

#### Mechanical Quick Coupler.

The Caterpillar Quick Coupler makes tool changes fast and easy. Maximizing performance and compatible with all standard work tools.













#### **Serviceability**

Designed to keep 'down-time' to a minimum, with easy access and convenient locations for all daily checks.

**Large 'swing out' rear doors** allow access to major components and service points within the engine enclosure.

- Air filter
- Engine oil check and fill
- Engine oil filter element
- Radiator reservoir tank, check and fill
- Vertically mounted, spin-on fuel filter/water separator
- Windshield washer tank

Access to implement valve and hydraulic tank is via a lift up side cover

**A sight gauge** for hydraulic oil makes fluid level checks convenient.

**S•0•S oil sampling valve** allows easy sampling of the hydraulic fluid for preventative maintenance.

**500 hour oil and filter change period** reduces operating costs and machine down time.

**Clean side front linkage** with concealed hosing reduces damage and machine down time.





## **Customer Support**

Complete services provided by the world's largest dealer network.

**Unmatched dealer support** with excellent equipment management services and fast parts availability – most within 24 hours – provide maximum uptime and minimum repair costs.

**Equipment maintenance services** to help optimize machine performance and reliability. Services include:

- Customer Support Agreements
- S•O•S oil analysis
- Maintenance contracts
- Scheduled technical inspections

**Equipment management services** to help optimize profits.

- Services include:
- Machine and work tool selection
- Rental and leasing
- Purchasing and financing
- Owning and operating cost management
- Extended warranties

For a complete explanation of these services please call your local Caterpillar dealer.



#### **Engine**

Mitsubishi S3L2 naturally aspirated, watercooled, 4 stroke, 3 cylinder diesel engine.

19.9 kW	27.1 hp
18.6 kW	25.3 hp
	78 mm
	92 mm
	1318 cm <sup>3</sup>

- All engine horsepower (hp) are metric including front page.
- Net power rating per ISO 9249 and EEC 80/1269
- Meets EU Stage IIIA emission requirements

## **Hydraulic System**

Pumps/Pressures/Ci	rcuits
Pumps: Two piston,	one gear-type
(max. delivery)	
Tandem	2 x 32.9 lpm
Single	1 x 19.5 lpm
Operating pressures	
Equipment	221 bar
Travel	221 bar
Swing	174 bar
Auxiliary circuits	
Primary	52.4 lpm at 174 bar
Secondary	19.5 lpm at 174 bar
Digging Forces	
Stick, standard	15.3 kN

 One and two-way auxiliary lines for work tools such as hammers, augers and Tilt ditch bucket are standard

13.1 kN

25.0 kN

## **Swing System**

Machine swing speed 9.5	
Boom swing system with	
cast swing post	
Left (without stop)	90°
Left (with stop)	54°
Right	48°

- Automatic swing brake, spring applied, hydraulic release
- Centralized lubrication

## **Service Refill Capacities**

	Liters
Cooling system	4.5
Engine oil	6.4
Fuel tank	38
Hydraulic tank	36
Hydraulic system	50

# **Sound Levels**

Operator sound pressure level is 81 dB(A) for cab and 81 dB(A) for canopy builds when measured per ISO 6396 (dynamic).

## **Electrical System**

■ 50-amp alternator

Stick, long

Bucket

- 12-volt, 650 CCA, 52 amp/h maintenance free battery
- Sealed electrical connectors

## Weights\*

With rubber tracks, bucket, operator, full fuel and auxiliary lines.

Canopy	2745 kg
Cab	2850 kg

 Weight varies depending on machine configuration.

## Undercarriage

H-shaped, fabricated frame.

- Fabricated design gives high durability
- Tapered roller frame reduces accumulation of material in the tracks
- Track tension adjustment is accomplished through grease-filled cylinders
- Track shoe width is 300 mm for both standard rubber and optional steel shoes
- Ground clearance is 265 mm

## **Blade**

Blade is full width of the machine.

Width	1450 mm
Height of blade	320 mm
Dig depth	420 mm
Lift height	285 mm

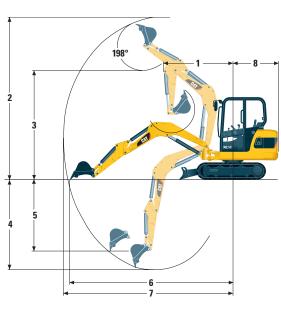
- Blade flotation function provides easier operation
- Replaceable, hardened, wear resistant cutting edge

## **Travel System**

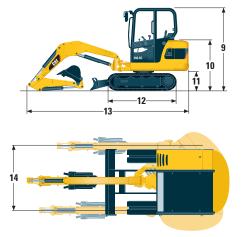
Travel speed	
High	5.0 km/h
Low	2.5 km/h
Traction force (max.)	
High Speed	14.3 kN
Low Speed	23.6 kN
Gradeability (max.)	30°

- Each track is driven by one independent 2-speed motor
- Drive modules are integrated into the roller frame for total protection
- Straight line travel when tracking and operating the front linkage simultaneously

## **Dimensions and Lift Capacities**



Track and blade width	1450 mm
Gauge width	1150 mm
Shoe width	300 mm



	Standard Stick	Long
	mm	mm
1	1875	1890
2	4355	4530
3	3110	3280
4	2640	2930
5	1920	2180
6	4545	4810
7	4670	4930
8	1280	1280
9	2300	2300
10	1405	1405
11	545	545
12	1925	1925
13	4515	4515
14	1110	1110
	With tracks level or	the around

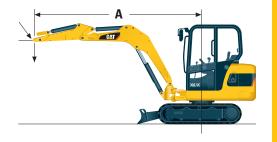
With tracks level on the ground

Lift Capacities at Ground Level	Over front	Over side	Over front	Over side	
A Lift Point Radius (mm)	2:	2500		3500	
Blade down (kg)	*1285	1090	*816	671	
Blade up (kg)	791	635	499	413	

<sup>\*</sup> Limited by hydraulic capacity rather than tipping load.

The above loads are in compliance with SAE hydraulic excavator lift capacity rating standard SAE J1097 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

The excavator bucket weight is not included on this chart. Lifting capacities for standard stick.



## **Standard Equipment**

Standard equipment may vary. Consult your Caterpillar dealer for specifics.

Adjustable wrist rests Alternator Automatic swing parking brake Auxiliary lines circuit valve, controls, 'one way' (hammer) and 'two way' (auger) auxiliary lines to the stick Auxiliary line quick couplers Boom cylinder guard Cab mounted work light Canopy with FOPS per ISO 10262 (Level I) and TOPS per ISO 12117 Coat hook and cup holder Dozer blade with float function Floor mat Gauges or indicators for fuel level, engine coolant temperature, hour meter, engine oil pressure, air cleaner, alternator and glow plugs, service interval

Horn Hydraulic oil cooler Joystick mounted aux. control switch Joystick mounted boom swing control Lockable storage box Lockable tank cover Low maintenance linkage pin joints Maintenance-free battery Mobile phone holder and power point Rubber tracks, 300 mm Seatbelt, 50 mm wide Standard stick Suspension seat, vinyl covered Travel pedals Two-speed travel

## **Optional Equipment**

Optional equipment may vary. Consult your Caterpillar dealer for specifics.

Air conditioning Biodegradable hydraulic oil Boom check valve Boom mounted light Cab, fully glazed with FOPS per ISO 10262 (Level I), TOPS per ISO 12117, heater/defroster, interior light, and windshield wiper/washer Control pattern changer Ecology drain valve for hydraulic tank Ecology drain valve for engine oil Fan and sun blind installation Front screen guard for cab and canopy

Immobilizer system
Joystick mounted
proportional aux. control
Long stick
Mechanical quick coupler
Mirrors, for cab and canopy
Radio/CD player
Radio installation kit
Seatbelt, 75 mm wide
Steel tracks, 300 mm
Suspension seat, fabric covered
- Standard
- High back
'Thumb ready' sticks

Tool kit

Travel alarm

Work tools

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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

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

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