**302.5C** Mini Hydraulic Excavator



Engine		
Rated net power (ISO 9249)	18.6 kW	24.9 hp
Weights		
Operating weight with canopy	2745 kg	6,052 lb
Operating weight with cab	2850 kg	6,283 lb

302.50

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- Weight with rubber tracks, bucket, operator, full fuel and auxiliary lines.
- Weight varies depending on machine configuration.

# 302.5C Mini Hydraulic Excavator

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

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

Cab or canopy, the 302.5C offers a spacious and comfortable work area with expansive legroom. Features like automatic swing lock, power socket, suspension seat, ergonomic controls and well-positioned air vents add to a productive work environment. **pg. 4** 

### Performance and Versatility

High dig forces, fast cycle times and high bucket rotation angles deliver the productivity that customers demand. A choice of stick lengths, Cat<sup>®</sup> Work Tools and dozer float function makes the 302.5C Mini Hydraulic Excavator even more versatile. **pg. 5** 

#### Low Operating Costs

Protected front linkage lines, extra thick side panels and protective counterweight help reduce impact damage and costly repairs. Service points are easily accessed through large rear doors and a 500-hour engine oil change period lowers operating costs. **pg. 6** 



The heavy-duty structures and clean lines of the Cat 302.5C ensure long life and reduce maintenance costs in tough, demanding applications.



## **Customer Support**

Cat dealers offer unmatched customer support with excellent equipment management services, equipment maintenance and fast parts availability, resulting in optimized performance, reliability and profit. **pg. 7** 



## **Comfort and Ease of Operation**

The spacious cab and easy operating controls are designed for comfort and productivity.



**Operator Station**. The large, spacious cab offers superior leg room, air circulation and an expansive viewing area, with flat glass throughout, for easy and inexpensive replacement.

**Suspension Seat and Wrist Supports.** A suspension seat is standard and coupled with adjustable wrist supports, help increase operator comfort and reduce fatigue.



Low Effort Controls. Ergonomic, low effort controls offer greater operator comfort for increased productivity. Dozer lever mounted, two-speed travel control provides easy operation and increases foot room.

#### Line of Sight Instrumentation.

The operator has a clear view of the machine's monitoring system, ensuring fuel level, water temperature and warning lights are easily seen.

#### Lever Mounted Auxiliary and Boom

Swing Controls. Moving the auxiliary boom swing functions from the cab floor enhances machine control and increases operator foot space.

#### **Optional Air Conditioning or Fan and Sun Visor**. Operator comfort can be further enhanced with the optional air conditioning or fan and sun visor

packages.

# Performance and Versatility

A wide range of buckets and hydraulically powered work tools optimize machine performance.

#### Digging Forces and Cycle Times.

High digging forces and fast cycle times ensure that the Cat C-Series Mini Excavators deliver the productivity that customers demand.

**Stick Options.** A choice of standard or long stick enables matching of machine to application.



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

**Long Reach Dozer Blade**. The long reach dozer blade assists with effective site clean-up.

**Dozer Blade Float Function.** The dozer float enables easy ground leveling for landscaping and finishing applications, as well as more efficient clean-up.



Work Tools. Caterpillar<sup>®</sup> offers a wide range of work tools to increase the machine's versatility. The work tools are designed to optimize performance and deliver excellent value through high productivity and long life.

Work tools include:

- Augers
- Buckets digging, ditch cleaning, tilt ditch
- Hydraulic hammers



Auxiliary Lines and Connectors. The auxiliary lines and connectors are fitted as standard, meaning the Cat 302.5C comes ready to work, enabling both hammer (one-way) and auger (two-way) tool operation.



Mechanical Quick Coupler. The Cat Quick Coupler makes frequent tool changes fast and easy. Compatible with all Cat Mini Hydraulic Work Tools, it features a strong, lightweight, low profile design with no debris traps for years of secure work tool changes.

# Low Operating Costs

Downtime is kept to a minimum with easy access to convenient daily check points.



**Front Linkage**. Protected front linkage lines are routed above the boom and stick so the sides are clean to help reduce damage and downtime.



Service Access. Large, swing-out rear doors allow access to major components and service points within the engine enclosure, including:

• Air filter

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- 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 fluid tank



**Lift Up Side Cover.** Access to the implement valve and hydraulic tank is convenient through a lift up side cover.

**Sight Gauge**. A hydraulic oil sight gauge makes fluid level checks fast and easy.

**S**•O•S<sup>™</sup> Valve. The S•O•S oil sampling valve allows easy sampling of hydraulic fluid for preventive maintenance.

**500-Hour Oil Change**. The 500-hour oil and filter change period helps keep operating costs down.

# **Customer Support**

Industry-leading customer support is provided by the Cat dealer network.

**Selection**. Make detailed comparisons of the machines under consideration before you purchase. Your Cat dealer can give you precise answers to your questions, as well as estimate component life, preventive maintenance cost and the true cost of lost production.

**Purchase.** Look past initial price. Consider the flexible financing options available, as well as day-to-day operating costs. Look at dealer services that can be included in the cost of the machine to yield lower equipment owning and operating costs over the long haul. Your Cat dealer can provide a package to meet your needs.

**Operation**. Improving operating techniques can boost your profits. Your Cat dealer has training literature, video tapes, classes and other ideas to help increase your productivity.

### Equipment Maintenance Services.

More and more equipment buyers are planning for effective maintenance before buying. Choose from your dealer's wide range of maintenance services at the time you purchase your new machine. Repair option programs guarantee the cost of repairs up front. Services that help optimize machine performance include:

- Customer Support Agreements
- S•O•S<sup>SM</sup> and Coolant Sampling and Technical Analysis
- Maintenance contracts
- Scheduled technical inspections



**Unmatched Product Support**. You will find nearly all parts at our dealer parts counter. Cat dealers use a world-wide computer network to find in-stock parts to minimize machine downtime.

Save money with genuine Cat Remanufactured parts. You receive the same warranty and reliability as new products at a cost savings of 40-70 percent.

## Engine

Model	Mitsubishi	S3L2 NA Diesel
Rated net power (ISO 9249)	18.6 kW	24.9 hp
Gross power	19.9 kW	26.7 hp

- Meets EPA Tier 2 emissions requirements.
- Ratings at 2,300 rpm.

## Weights

Operating weight with canopy	2745 kg	6,052 lb
Operating weight with cab	2850 kg	6,283 lb

- Weight with rubber tracks, bucket, operator, full fuel and auxiliary lines.
- Weight varies depending on machine configuration.

## **Engine Dimensions**

Bore	78 mm	3.07 in
Stroke	92 mm	3.62 in
Displacement	1.3 L	80.4 in <sup>3</sup>

### **Travel System**

Travel speed – high	5 km/h	3.1 mph
Travel speed – low	2.5 km/h	1.6 mph
Max traction force – high speed	14.3 kN	3,215 lbf
Max traction force – low speed	23.6 kN	5,305 lbf
Gradeability (max)	30°	

## Hydraulic System

Pump – gear (tandem)	32.9 L/min	8.7 gal/min
Pump – gear (single)	19.5 L/min	5.2 gal/min
Operating pressures – equipment	221 bar	3,205 psi
Operating pressure – travel	221 bar	3,205 psi
Operating pressure – swing	174 bar	2,524 psi
Auxiliary circuits – Primary – at 174 bar	52.4 L/min	13.8 gal/min
Auxiliary circuits – Secondary – at 174 bar	19.5 L/min	5.2 gal/min
Digging force – Stick, standard	15.3 kN	3,440 lbf
Digging force – Stick, long	13.1 kN	2,945 lbf
Digging force – Bucket	25 kN	5,620 lbf

## Swing System

Туре	Hydraulic motor-driven
Machine swing speed	9.5 rpm
Boom swing – left (without stop)	90°
Boom swing – left (with stop)	54°
Swing – right	48°

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

## Sound Levels

Сапору	81 dB(A)
Cab	81 dB(A)

• Operator sound pressure levels measured per ISO 6396 (dynamic).

## **Electrical System**

- 50-amp alternator
- 12-volt, 650 CCA, 52 amp/h
- Sealed electrical connectors

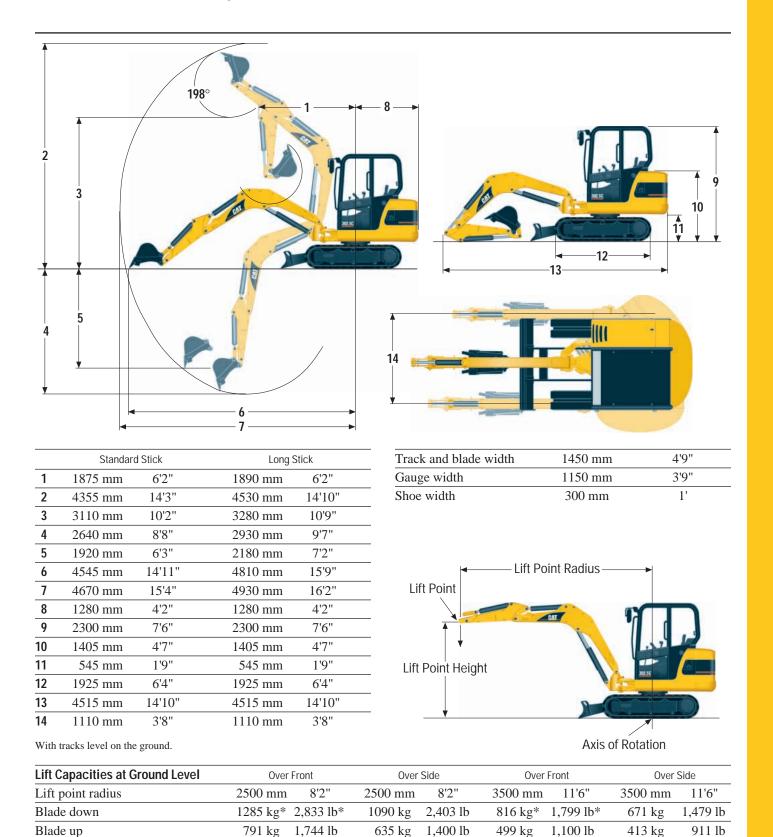
### Blade

Width	1450 mm	57.1 in
Height	320 mm	12.6 in
Dig depth	420 mm	16.5 in
Lift height	285 mm	11.2 in

## **Service Refill Capacities**

Cooling system	4.5 L	1.2 gal
Engine oil	6.4 L	1.7 gal
Fuel tank	38 L	10 gal
Hydraulic tank	36 L	9.5 gal
Hydraulic system	50 L	13.2 gal

# **Dimensions and Lift Capacities**



\* 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 do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity.

Excavator bucket weight is not included on this chart. Lifting capacities are for standard stick.

## **Standard Equipment**

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

#### Alternator

Auxiliary control switch, joystick-mounted (on/off) Auxiliary lines circuit valve and controls Auxiliary lines - one-way (hammer), two-way (auger) to the stick Battery, maintenance-free Boom cylinder guard Boom swing control, joystick-mounted Canopy with FOPS per ISO 10262 (Level I) and TOPS per ISO 12117 Coat hook 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 Linkage pin joints, low-maintenance Mobile phone holder and power socket Parking brake, swing, automatic Rubber tracks, 300 mm (1 ft) Seatbelt, 50 mm (2 in) Seat, suspension, vinyl covered Stick, standard Storage box, lockable Tank cover, lockable Travel alarm Travel pedals Two-speed travel Work light, cab mounted Wristrests, adjustable

# **Optional Equipment**

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

Air conditioning Boom check valve Cab, fully glazed with FOPS per ISO 10262 (Level I), TOPS per ISO 12117 Heater/defroster, interior light, windshield wiper/washer Control pattern changer Engine oil, ecology drain valve Fan and sun visor installation Front screen guard for cab and canopy Hydraulic oil, biodegradable Hydraulic tank, ecology drain valve Immobilizer system Light, boom-mounted Mechanical Quick Coupler Mirrors for cab and canopy Proportional auxiliary control, joystick-mounted Radio installation kit Radio/CD player Seat, suspension, fabric covered Seatbelt, 75 mm (3 in) Steel tracks, 300 mm (1 ft) Stick, long Stick, thumb ready Tool kit Work tools

# 302.5C Mini Hydraulic Excavator

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