

| Engine | | | | |
|-------------------------------|--------------|-----------|--|--|
| Model | Mitsubishi S | 402 | | |
| Rated net power (ISO 9249) | 31 kW | 42 hp | | |
| Weights | | | | |
| Operating weight with canopy | 4800 kg | 10,582 lb | | |
| Operating weight | 4920 kg | 10,844 lb | | |

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

304C CR Mini Hydraulic Excavator

Engineered by Caterpillar® to deliver high levels of productivity, versatility and serviceability.

Comfort and Ease of Operation

Cab or Canopy, the 304C CR offers a spacious and comfortable work area with expansive legroom. Compact radius design gives greater machine versatility and the capability to work within confined areas. **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 and Cat® Work Tools makes the 304C CR even more versatile. **pg. 5**

Low Operating Costs

Robust, reliable and easily serviced are key attributes of the C Series CR design. Service points are easily accessed through rear door and side cover and a 500-hour engine oil change period lowers operating costs. **pg. 6**

Powerful performance levels in a compact radius machine. The 304C CR delivers high productivity in the tightest applications.



Angle Blade Configuration

The versatility and productivity of the Cat C Series machine can be increased even further by ordering the hydraulic angling dozer blade configuration. **pg. 7**

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. pg. 8



Comfort and Ease of Operation

Class leading space and top level features lead to a comfortable and productive environment.



Impressive Cab Dimensions.

The CR C Series gives the operator a comfortable and spacious working environment with excellent visibility.

The clear flat floor space and superior operator legroom provide high levels of operator comfort and help minimize fatigue.

Optional Air Conditioning. Optional air conditioning or fan and sun blind package offers further operator comfort.

Sliding Cab Door. The sliding door system offers good access and maintains the machine's compact dimensions to reduce the risk of damage.

Fully Pilot Operated Controls.

Pilot operated controls on all services including travel levers and dozer function ensure that "as new" levels of controllability are maintained throughout the machine life.

Automatic Two Speed Function.

Improves machine maneuverability around the job site. Increased productivity by balancing high speed travel requirements with controllability.

Joystick Mounted Auxiliary and Boom Swing Functions. The new joystick mounted position of these functions gives "fingertip" control and a clear cab floor.

Compact Radius Design. Compact radius design gives greater machine versatility and the capability to work within confined areas. The radius of the upper body stays within the width of the undercarriage so the operator can concentrate on the work being done without having to worry about the back of the machine.

High Level of Standard Comfort

Features. Reclining suspension seat, power point, adjustable wrist rests and a cup holder are standard features on the Cat C CR machines.

Performance and Versatility

The range of Cat buckets and hydraulically powered tools are machine matched to optimize performance.

Fast, Powerful Digging.. High digging forces and fast cycle times through smooth responsive hydraulics, ensure that the Cat C Series CR machines deliver the productivity that customers demand.

Load Sensing Hydraulics. Load sensing hydraulics optimize flow for smooth powerful performance and increased fuel economy.

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

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

Hydraulic 'Thumb Ready' Sticks.

All Cat CR C Series machines come standard with stick mounted brackets, ready to fit a hydraulic thumb.



Auxiliary Lines and Connectors.

The auxiliary lines and connectors including quick connections are fitted as standard, meaning the Cat 304C CR comes ready to work. Hammer (one-way) and auger (two-way) auxiliary lines are also fitted as standard.



Mechanical Quick Coupler. The Cat Quick Coupler makes tool changes fast and easy. It maximizes performance as it is compatible with all standard work tools.

Work Tools versatility is further enhanced with the option of a second additional auxiliary supply.



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

Wide Range of Work Tools. These tools are designed to get the best out of the machine and deliver excellent value through high productivity and long life. Tools include:

- Digging buckets
- · Ditch cleaning buckets
- · Angling ditching buckets
- Hydraulic hammers
- Augers



Low Operating Costs

Good access to main check points and major components makes servicing and maintaining the 304C CR easier.



Swing Out Rear Door. Provides access to major components and service points:

- · Engine oil check and fill
- Vertically mounted engine oil filter
- Starter motor
- Alternator

$S \bullet O \bullet S^{SM}$ Oil Sampling Valve.

Allows easy sampling of the hydraulic fluid for preventative maintenance.

Side-By-Side Radiator and Oil Cooler.

Simplifies cleaning and reduces maintenance times with greater accessibility.

Automatic Engine Idle. Automatically lowers engine revs when not in use to conserve fuel and lower environmental noise/emissions.

Lifting Side Hood. Allows excellent access to:

- Air filter
- Main implement valve
- Auxiliary change over valve
- Accumulator
- · Fuel filter
- · Hydraulic tank

500 Hour Oil and Filter Change Period.

Reduces operating costs and machine down time.

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

End Dampening. End dampening on both boom and stick cylinders reduces shock loading, increasing component life and improving soil retention when loading at height.

Liner Bearings. Liner bearings in the swing casting deliver longer component life and reduced parts replacement costs.

Angle Blade Configuration

Increased versatility and productivity are offered with the Cat angle blade.



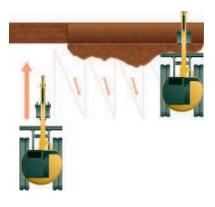
Versatility and Productivity. The Cat C Series machine can be made even more productive by ordering the angle dozer blade configuration.

Strong and Durable. The Cat hydraulic angle blade is engineered to be strong and durable with a hardened steel wear edge and good protection to cylinders and hydraulic lines.





Angle Blade Positioning. The angle blade can be positioned straight ahead or angled up to 25 degrees to the left or right reducing the number of times required to back-up and reposition when backfilling thus reducing operation time.





Single Control Lever. All dozer functions are controlled from inside the cab, with fully proportional fingertip control to position the blade at any angle, from the start to 25 degrees left or right while travelling in either direction.

Full Pilot Control. Full pilot control means no cables or linkages to wear, keeping "as new" controllability throughout the machines life and reducing maintenance costs.

Load Sensing Hydraulics, High Traction Force and Auto 2-Speed Travel.

These features are standard on the Cat C Series CR machines and ideally suited for getting the best out of the angling blade installation.

Excellent Blade Visibility. The compact radius design of the Cat C Series machines gives excellent visibility to the blade in any position, allowing the blade to be positioned behind the operator and away from the front linkage for better access when back dragging and finishing in tight areas.

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•SSM 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.

SAFETY.CAT.COM™.

Engine

| Model | Mitsubish | Mitsubishi S4Q2 | |
|----------------------------|-----------|-----------------|--|
| Rated net power (ISO 9249) | 31 kW | 42 hp | |
| Gross power | 32 kW | 43 hp | |

- Net power rating per ISO 9249 and EEC 80/1269
- Meets U.S. EPA Interim Tier 4 emission regulations

Weights

| Operating weight with canopy | 4800 kg | 10,582 lb |
|------------------------------|---------|-----------|
| Operating weight with cab | 4920 kg | 10,844 lb |

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

Engine Dimensions

| Bore | 88 mm | 3.45 in |
|--------------|---------|---------|
| Stroke | 103 mm | 4.05 in |
| Displacement | 2.505 L | 153 in³ |

Travel System

| Travel speed – high | 4.6 km/h | 2.8 mph | |
|---------------------------------|----------|------------|---|
| Travel speed – low | 2.6 km/h | 1.6 mph | |
| Max traction force – high speed | 23 kN | 5,170.6 lb | _ |
| Max traction force – low speed | 44.6 kN | 10,027 lb | |
| Gradeability (max) – high | 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

Service Refill Capacities

| Cooling system | 11 L | 2.90 gal |
|------------------|------|-----------|
| Engine oil | 7 L | 1.85 gal |
| Fuel tank | 72 L | 19.02 gal |
| Hydraulic tank | 48 L | 12.7 gal |
| Hydraulic system | 78 L | 20.6 gal |

Hydraulic System

| Load sensing hydraulics with variable displacement pump | | | | |
|---|--|--|--|--|
| 119 L/min | 31.4 gal/min | | | |
| 245 bar | 3,553 psi | | | |
| 245 bar | 3,553 psi | | | |
| 176 bar | 2,552 psi | | | |
| 70 L/min | 18.5 gal/min | | | |
| | | | | |
| 35 L/min | 9.25 gal/min | | | |
| | | | | |
| 24.7 kN | 5,550 lb | | | |
| 21.3 kN | 4,788 lb | | | |
| 44.7 kN | 10,050 lb | | | |
| | 119 L/min 245 bar 245 bar 176 bar 70 L/min 35 L/min 24.7 kN 21.3 kN | | | |

Swing System

| Machine swing speed | 9 RPM |
|----------------------------------|-------|
| Boom swing – left (without stop) | 80° |
| Boom swing – left (with stop) | 60° |
| Swing – right | 50° |

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

Sound Levels

| Canopy | 78 dB(A) |
|--------|----------|
| Cab | 80 dB(A) |

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

Electrical System

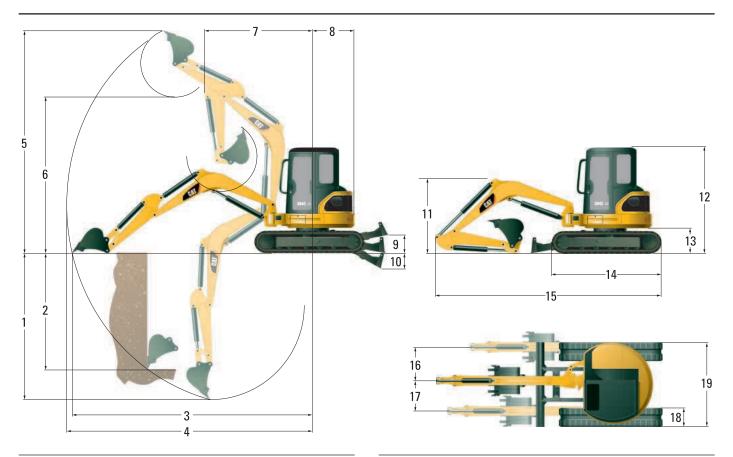
- 50-amp alternator
- 12-volt, 650 CCA, 52 amp/h maintenance-free battery
- Sealed electrical connectors

Blade

| Width | 1980 mm | 77.95 in |
|-------------|---------|----------|
| Height | 375 mm | 14.75 in |
| Dig depth | 540 mm | 21.25 in |
| Lift height | 420 mm | 16.55 in |

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

Dimensions and Lift Capacities



| Standard Stick | | Long S | Stick | |
|----------------|---------|--------|---------|--------|
| 1 | 3300 mm | 10'10" | 3690 mm | 12'1" |
| 2 | 2440 mm | 8'0" | 2760 mm | 9'1" |
| 3 | 5460 mm | 17'11" | 5830 mm | 19'2" |
| 4 | 5630 mm | 18'6" | 5990 mm | 19'8" |
| 5 | 5280 mm | 17'4" | 5480 mm | 18'0" |
| 6 | 3690 mm | 12'1" | 3900 mm | 12'10" |
| 7 | 2350 mm | 7'9" | 2530 mm | 8'4" |
| 8 | 1070 mm | 3'6" | 1070 mm | 3'6" |
| 9 | 420 mm | 1'5" | 420 mm | 1'5" |
| 10 | 540 mm | 1'9" | 540 mm | 1'9" |

| Standard Stick | | Long St | Long Stick | |
|----------------|---------|---------|------------|-------|
| 11 | 1730 mm | 5'8" | 2100 mm | 6'11" |
| 12 | 2550 mm | 8'4" | 2550 mm | 8'4" |
| 13 | 615 mm | 2'0" | 615 mm | 2'0" |
| 14 | 2580 mm | 8'6" | 2580 mm | 8'6" |
| 15 | 5170 mm | 17'0" | 5290 mm | 17'4" |
| 16 | 785 mm | 2'7" | 785 mm | 2'7" |
| 17 | 695 mm | 2'3" | 695 mm | 2'3" |
| 18 | 400 mm | 1'4" | 400 mm | 1'4" |
| 19 | 1980 mm | 6'6" | 1980 mm | 6'6" |
| | | | | |

With tracks level on the ground.

| Track and blade width | 1980 mm | 6'6" |
|-----------------------|---------|------|
| Gauge width | 1580 mm | 5'2" |
| Shoe width | 400 mm | 1'4" |

| Lift Capacities at Ground Level | Over Front | | Over Side | | Over Front | | Over Side | |
|---------------------------------|------------|-----------|-----------|----------|------------|-----------|-----------|--------|
| Lift point radius | 3000 mm | 9'11" | 3000 mm | 9'11" | 5130 mm | 16'10" | 5130 mm | 16'10" |
| Blade down | 2340 kg* | 5,160 lb* | 1020 kg | 2,249 lb | 790 kg* | 1,742 lb* | 450 kg | 992 lb |
| Blade up | 1200 kg | 2,646 lb | 900 kg | 1,985 lb | 520 kg | 1,147 lb | 400 kg | 882 lb |

^{*}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 details.

Additional counterweight 165 kg (364 lb)

Adjustable wrist rests

Alternator

Automatic Engine Idle

Automatic swing park brake

Auxiliary hydraulic circuit valve, controls,

and 1 way hammer lines to the stick

2 way (auger) auxiliary hydraulic lines to the stick

Auxiliary line quick couplers

Boom cylinder guard

Cab mounted work light

Canopy with FOPS ISO10262 (Level 1),

and Tip-Over protection ISO12117

Coat hook and cup holder

Control pattern changer

Dial type accelerator

Dozer blade with float function

Floor mat

Foot travel pedals

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

Lockable storage box

Low maintenance linkage pin joints

Maintenance-free battery

Rubber track

Retractable seat belt

Standard stick

Suspension seat, vinyl covered

'Thumb ready' sticks

Travel alarm

Two speed travel

Optional Equipment

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

Air conditioning

Additional auxiliary lines

Biodegradable hydraulic oil

Boom check valve

Boom mounted light

Cab, fully glazed with FOPS

ISO10262 (Level 1) and Tip-Over Protection ISO 12117 with:

heater/defroster, interior light and windshield wiper/washer

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

Long stick

Mechanical quick coupler

Mirrors for cab and canopy

Radio installation kit

Factory fitted radio/CD player

Seat belt, 75 mm (3 in) wide

Suspension seat, fabric covered

High back suspension seat, fabric covered

Tool kit

Work tools

304C CR Mini Hydraulic Excavator

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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Featured machines in photos may include additional equipment.

See your Caterpillar dealer for available options.

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