



Purchasing Division  
 2019 Washington Street East  
 Post Office Box 50130  
 Charleston, WV 25305-0130

State of West Virginia  
 Request for Quotation  
 13 - Equipment

Proc Folder: 336215

Doc Description: ADDENDUM\_4: HYDRAULIC COMPACT TRACK EXCAVATOR

Proc Type: Central Master Agreement

Date Issued	Solicitation Closes	Solicitation No	Version
2017-08-11	2017-08-16 13:30:00	CRFQ 0803 DOT1700000086	5

**BID RECEIVING LOCATION**

BID CLERK  
 DEPARTMENT OF ADMINISTRATION  
 PURCHASING DIVISION  
 2019 WASHINGTON ST E  
 CHARLESTON WV 25305  
 US

**VENDOR**

Vendor Name, Address and Telephone Number:

STATE EQUIPMENT, INC.  
 560 NEW GOFF MOUNTAIN ROAD  
 CROSS LANES, WV 25313  
 (304)776-4405

08/16/17 13:06:38  
 WV Purchasing Division

**FOR INFORMATION CONTACT THE BUYER**

Mark A Atkins  
 (304) 558-2307  
 mark.a.atkins@wv.gov

Signature

FEIN # 550658298

DATE 8/15/17

All offers subject to all terms and conditions contained in this solicitation

Exhibit A

### Pricing Sheet

CRFQ 0803 DOT1700000086

Item Number	Estimated Quantity	Unit of Measure	Description	Unit Price Each	Total
1	20	Each	One complete unit: Hydraulic Compact Excavator	\$59,414.00 -	\$1,188,280.00 -
<b>Grand Total</b>					\$1,188,280.00 -

Vendor shall list the year, make, and model of the unit being bid:

Year: 2017

Make: CASE

Model: CX57C

**ADDITIONAL INFORMATION:**

ADDENDUM 4: Is issued for the following:

1: To publish additional clarification to the agency response to technical questions posed by vendors concerning specification requirements for Specification 3.1.9.4. during the Technical Questioning Period and to attach Exhibit C for reference.

NO OTHER CHANGES.

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways (WVDOH), the West Virginia Department of Transportation (WVDOT), to establish an open-end contract for Hydraulic Compact Track Excavators per the attached documents.

INVOICE TO	SHIP TO
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT 33 83 BRUSHY ROAD CROSSING, PO BOX 610 BUCKHANNON WV26201 US	DIVISION OF HIGHWAYS EQUIPMENT DIVISION 83 BRUSHY FORK RD CROSSING BUCKHANNON WV 26201 US

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Pricing shall be completed on Exhibit A Pricing Page.	0.00000	EA	\$59,414.00	

Comm Code	Manufacturer	Specification	Model #
22101526	CASE	HYDRAULIC COMPACT TRACK EXCAVATOR	CX57C

**Extended Description :**

HYDRAULIC COMPACT EXCAVATOR:

Note: Vendor shall use Exhibit\_A Pricing Page(s) for bid pricing. If bidding online vendor should enter \$0.00 in the Oasis commodity line.

Vendor must attach the Exhibit\_A pricing page to their bid.

See Section 18 of Instructions to Bidders for additional information.

**SCHEDULE OF EVENTS**

Line	Event	Event Date
1	Mandatory Pre-Bid Meeting @ 10:00am EST	2017-07-21
2	Technical Questions due by:	2017-07-26

# SOLICITATION NUMBER: CRFQ 0803 DOT1700000086

## Addendum Number: 4

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The purpose of this addendum is to modify the solicitation identified as CRFQ 0803 DOT1700000086 ("Solicitation") to reflect the change(s) identified and described below.

### Applicable Addendum Category:

- Modify bid opening date and time
- Modify Technical Question submission date
- Modify Mandatory Pre-Bid Meeting date
- Attachment of pre-bid sign-in sheet
- Publish Exhibit\_C for reference.
- Clarification to the agency response to technical questions concerning Specification 3.1.9.4.

### Description of Modification to Solicitation:

**1: To publish additional clarification to the agency response to technical questions posed by vendors concerning specification requirements for Specification 3.1.9.4. and attach Exhibit C for reference.**

NO OTHER CHANGES.

**Additional Documentation:** Documentation related to this Addendum (if any) has been included herewith as Attachment A and is specifically incorporated herein by reference.

### Terms and Conditions:

1. All provisions of the Solicitation and other addenda not modified herein shall remain in full force and effect.
2. Vendor should acknowledge receipt of all addenda issued for this Solicitation by completing an Addendum Acknowledgment, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.

<b>DOT1700000086</b>	<b>Document Phase</b> Final	<b>Document Description</b> ADDENDUM_4: HYDRAULIC COMPACT TRACK EXCAVATOR	<b>Page 3</b> <b>of 3</b>
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**ADDITIONAL TERMS AND CONDITIONS**

See attached document(s) for additional Terms and Conditions

CRFQ 0803 DOT1700000086  
REQUEST FOR QUOTATION  
**HYDRAULIC COMPACT TRACK EXCAVATOR**  
With Swivel Head, Digging Bucket, Ditching Bucket, Thumb

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**7.3 Contract Manager:** During its performance of this Contract, Vendor must designate and maintain a primary contract manager responsible for overseeing Vendor's responsibilities under this Contract. The Contract manager must be available during normal business hours to address any customer service or other issues related to this Contract. Vendor should list its Contract manager and his or her contact information below.

**Contract Manager:** EDDIE ROWAN, JR.  
**Telephone Number:** (304)776-4405  
**Fax Number:** (304)776-4409  
**Email Address:** EDDIE@STATEEQUIPMENT.COM

**7.4 Operating and Service Manuals and Parts Lists:** An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and the "Equipment Preventative Maintenance Questionnaire", (Exhibit "B") must be with pilot unit upon delivery, Attn: Marcia Lee. There must be 12 service/shop/maintenance manuals and 14 parts manuals; CD-ROM is preferred in lieu of parts manuals. Manuals shall be delivered upon completion of delivery of total units. Failure to do so will delay payment.

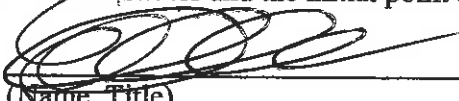
**7.5 Training:** Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator, and Mechanic Training. In order to keep operators and mechanics updated, the successful vendor shall conduct training sessions covering the operation, maintenance, troubleshooting with each purchase order against this open end contract. Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to

**WVDOH**  
Training Academy  
P.O. Box 610  
Buckhannon, West Virginia 26201

Prior to delivery of the pilot unit. Training seminar to be held at the WVDOT, Equipment Division, Buckhannon, WV.

**7.6 Preventative Maintenance & Operator Procedures:** Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the


**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

  
\_\_\_\_\_  
(Name, Title) GENERAL MANAGER  
EDDIE ROWAN, JR. GENERAL MANAGER  
\_\_\_\_\_  
(Printed Name and Title)  
560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313  
\_\_\_\_\_  
(Address)  
(304)776-4405 (304)776-4409  
\_\_\_\_\_  
(Phone Number) / (Fax Number)  
EDDIE@STATEEQUIPMENT.COM  
\_\_\_\_\_  
(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

STATE EQUIPMENT, INC.

\_\_\_\_\_  
(Company)

  
\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title) GENERAL MANAGER

EDDIE ROWAN, JR. GENERAL MANAGER  
\_\_\_\_\_  
(Printed Name and Title of Authorized Representative)

8/15/17  
\_\_\_\_\_  
(Date)

(304)776-4405 (304)776-4409  
\_\_\_\_\_  
(Phone Number) (Fax Number)

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.: CRFQ 0803 DOT170000086**

**Instructions:** Please acknowledge receipt of all addenda issued with this solicitation by completing this addendum acknowledgment form. Check the box next to each addendum received and sign below. Failure to acknowledge addenda may result in bid disqualification.

**Acknowledgment:** I hereby acknowledge receipt of the following addenda and have made the necessary revisions to my proposal, plans and/or specification, etc.

**Addendum Numbers Received:**

(Check the box next to each addendum received)

- |  |  |
|--|--|
| <input type="checkbox"/> Addendum No. 1            | <input type="checkbox"/> Addendum No. 6  |
| <input type="checkbox"/> Addendum No. 2            | <input type="checkbox"/> Addendum No. 7  |
| <input type="checkbox"/> Addendum No. 3            | <input type="checkbox"/> Addendum No. 8  |
| <input checked="" type="checkbox"/> Addendum No. 4 | <input type="checkbox"/> Addendum No. 9  |
| <input type="checkbox"/> Addendum No. 5            | <input type="checkbox"/> Addendum No. 10 |

I understand that failure to confirm the receipt of addenda may be cause for rejection of this bid. I further understand that that any verbal representation made or assumed to be made during any oral discussion held between Vendor's representatives and any state personnel is not binding. Only the information issued in writing and added to the specifications by an official addendum is binding.

STATE EQUIPMENT, INC.

\_\_\_\_\_  
Company

  
\_\_\_\_\_  
Authorized Signature

8/15/17

\_\_\_\_\_  
Date

**NOTE:** This addendum acknowledgement should be submitted with the bid to expedite document processing.



STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**MANDATE:** Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

**EXCEPTION:** The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

**DEFINITIONS:**

**"Debt"** means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

**"Employer default"** means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

**"Related party"** means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceeds five percent of the total contract amount.

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: STATE EQUIPMENT, INC.

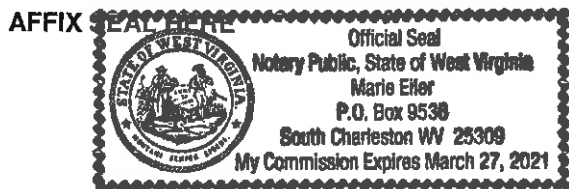
Authorized Signature:  Date: 8/15/17

State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 15<sup>th</sup> day of August, 2017.

My Commission expires March 27, 2021.



NOTARY PUBLIC 

Purchasing Affidavit (Revised 08/01/2015)

# State of West Virginia

## VENDOR PREFERENCE CERTIFICATE

Certification and application is hereby made for Preference in accordance with **West Virginia Code**, §5A-3-37. (Does not apply to construction contracts). **West Virginia Code**, §5A-3-37, provides an opportunity for qualifying vendors to request (at the time of bid) preference for their residency status. Such preference is an evaluation method only and will be applied only to the cost bid in accordance with the **West Virginia Code**. This certificate for application is to be used to request such preference. The Purchasing Division will make the determination of the Vendor Preference, if applicable.

**1. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is an individual resident vendor and has resided continuously in West Virginia for four (4) years immediately preceding the date of this certification; **or**,
- Bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia for four (4) years immediately preceding the date of this certification;
- Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; **or**,
- Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,

**2. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,

**3. Application is made for 2.5% vendor preference for the reason checked:**

- Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; **or**,

**4. Application is made for 5% vendor preference for the reason checked:**

- Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,

**5. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

- Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,

**6. Application is made for 3.5% vendor preference who is a veteran for the reason checked:**

- Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.

**7. Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**

- Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.

Bidder understands if the Secretary of Revenue determines that a Bidder receiving preference has failed to continue to meet the requirements for such preference, the Secretary may order the Director of Purchasing to: (a) rescind the contract or purchase order; or (b) assess a penalty against such Bidder in an amount not to exceed 5% of the bid amount and that such penalty will be paid to the contracting agency or deducted from any unpaid balance on the contract or purchase order.

By submission of this certificate, Bidder agrees to disclose any reasonably requested information to the Purchasing Division and authorizes the Department of Revenue to disclose to the Director of Purchasing appropriate information verifying that Bidder has paid the required business taxes, provided that such information does not contain the amounts of taxes paid nor any other information deemed by the Tax Commissioner to be confidential.

**Bidder hereby certifies that this certificate is true and accurate in all respects; and that if a contract is issued to Bidder and if anything contained within this certificate changes during the term of the contract, Bidder will notify the Purchasing Division in writing immediately.**

Bidder: STATE EQUIPMENT, INC.

Signed: 

Date: 8/15/17

Title: GENERAL MANAGER

\*Check any combination of preference consideration(s) indicated above, which you are entitled to receive.



## ENGINE

Model	Yanmar 4TNV98C
Emissions Certification	Tier 4 Final
Fuel	Diesel
Cylinders	4
Displacement	203 in <sup>3</sup> (3 319 cc)
Fuel Injection	Electronic common rail
Gross horsepower – SAE J1995 @ 2400 RPM:	66.9 hp (49.9 kW)
Cooling	Water-cooled

## DRIVE TRAIN

Travel speeds:	
1st	1.4 mph (2.2 kph)
2nd	2.6 mph (4.2 kph)
Maximum traction force	11,680 lb (5 300 kg)
Gradeability	35° (70%)
Ground pressure	4.8 psi (0.34 kgf/cm <sup>2</sup> )

## ELECTRICAL

Voltage	12 Volts
Alternator rating	60 amp
Battery	1 x 12 V x 100 Ah 850 CCA

## OPERATOR ENVIRONMENT

Enclosed cab w/heat and air conditioning; Pilot operated hand controls and foot pedals; Adjustable seat w/seat belt and seat heater; Arm rests; 12V socket; 5.7 in color LCD display; cup holder; Cell phone holder; Bluetooth radio with USB input, 2 speakers and remote control.

Display includes:

Hydraulic oil temp warning lamp; Air cleaner warning lamp; Engine stop warning lamp; Check engine warning lamp; Water in fuel warning lamp; Battery charging warning lamp; Emergency warning lamp; Engine coolant temp warning lamp; Engine oil pressure warning lamp; DPF regeneration inhibit warning lamp; DPF regeneration acknowledge warning lamp; DPF warning lamp; High Exhaust Temperature warning lamp; Low fuel level warning lamp; Engine coolant temperature gauge; Hydraulic oil temperature gauge; Fuel gauge; Engine RPM and Hour meter.

## OPERATING WEIGHT

Cab operating weight:  
Short arm 12,050 lb (5 465 kg)  
Long arm w/additional counterweight  
12,320 lb (5 590 kg)

NOTE: w/rubber tracks/no quick coupler/bucket/fluids/full of fuel/165 lb operator.

## HYDRAULICS

Main pumps: Variable displacement tandem axial piston pump  
Max rated flow x 2: 15.3 gpm (57.8 L/min)

Auxiliary flow:

Hammer Circuit 1-way:  
Flow 17.2 gpm (65 L/min)  
Pressure 3,191 psi (220 bar)  
1st Auxiliary 2-way Circuit:  
Flow 17.2 gpm (65 L/min)  
Pressure 3,191 psi (220 bar)  
2nd Auxiliary 2-way Circuit:  
Flow 8.7 gpm (33 L/min)  
Pressure 2,321 psi (160 bar)

System relief pressure:

Standard 3,130 psi (220 bar)  
Overload relief valve 3,410 psi (240 bar)

Pilot control hydraulic system:

Pump Gear pump  
Maximum capacity 2.5 gpm (9.5 L/min)

Control valves:

Pilot control for left/right track travel, boom, arm, bucket and swing  
Manual control for breaker and backfill blade

Swing Motor: Fixed displacement axial piston motor  
Automatic spring applied hydraulic released brake

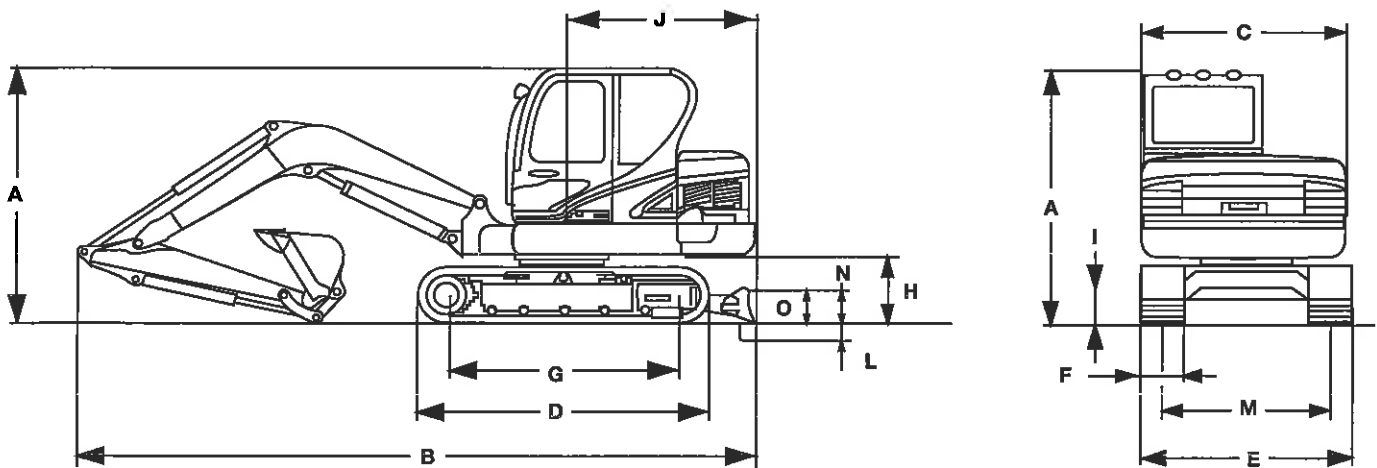
Travel Motor: Variable displacement axial piston  
2-stage planetary  
Automatic spring applied hydraulic released brake

## SERVICE CAPACITIES

Fuel tank	31.7 gal (120 L)
Hydraulic tank:	
Refill capacity	18.5 gal (70 L)
Total system	31.7 gal (120 L)
Engine oil w/filter change	3.1 gal (11.6 L)
Radiator	2.5 gal (9.5 L)

## OTHER SPECIFICATIONS

Swing speed	0 – 9.1 RPM
Undercarriage:	
Track rollers	1 upper/5 lower each
Boom:	
Swing	80° left/50° right
Length	9 ft 10 in (3.0 m)
Arm:	
Standard length	5 ft 3 in (1.6 m)
Long arm length	6 ft 3 in (1.9 m)



Line drawings are for illustrative purpose only and may not be exact representation of unit.

#### DIMENSIONS

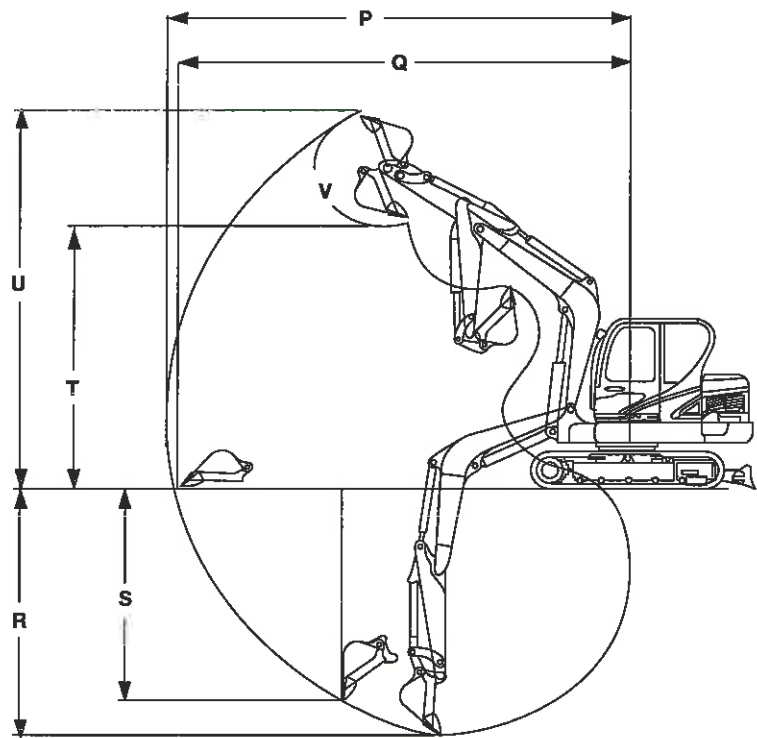
	5 ft 3 in (1.6 m) Arm
A. Overall height	8 ft 4 in (2 550 mm)
B. Overall transport length	19 ft 4 in (5 900 mm)
C. Width of upper structure	6 ft 1 in (1 850 mm)
D. Track overall length	8 ft 4 in (2 530 mm)
E. Track overall width	6 ft 4 in (1 920 mm)
F. Track shoe width	15 in (380 mm)
G. Center to center - idler to sprocket	6 ft 6 in (1 990 mm)
H. Upper structure ground clearance	2 ft 3 in (690 mm)
I. Minimum ground clearance	1 ft 3 in (380 mm)
J. Tail swing radius:	
Standard counterweight	5 ft 5 in (1 650 mm)
Additional counterweight	5 ft 5 in (1 650 mm)
Boom swing	80° left/50° right
Tail swing overhang:	
Standard counterweight	2 ft 3 in (690 mm)
Additional counterweight	2 ft 3 in (690 mm)

#### BLADE SPECS

L. Backfill blade height	1 ft 2 in (350 mm)
M. Backfill blade width	6 ft 4 in (1 920 mm)
N. Backfill blade rise above ground	1 ft 3 in (390 mm)
O. Backfill blade dig depth	1 ft 11 in (590 mm)

#### PERFORMANCE SPECS

	5 ft 3 in (1.6 m) Arm	6 ft 3 in (1.9 m) Arm
P. Maximum dig radius	20 ft 2 in (6 150 mm)	21 ft 0 in (6 400 mm)
Q. Dig radius at groundline	19 ft 9 in (6 010 mm)	20 ft 7 in (6 270 mm)
R. Maximum dig depth	12 ft 6 in (3 820 mm)	13 ft 4 in (4 060 mm)
S. Vertical straight wall dig depth	10 ft 6 in (3 200 mm)	11 ft 4 in (3 460 mm)
T. Dump height	13 ft 3 in (4 050 mm)	13 ft 9 in (4 180 mm)
U. Overall reach height	19 ft 0 in (5 780 mm)	19 ft 5 in (5 920 mm)
V. Bucket rotation	180°	180°
Arm digging force - ISO	7,190 lbf (3 260 kgf/31.9 kN)	6,460 lbf (2 930 kgf/28.7 kN)
Bucket digging force - ISO	9,550 lbf (4 330 kgf/42.4 kN)	9,550 lbf (4 330 kgf/42.4 kN)



**LIFT CAPACITIES**

**9 ft 10 in (3.0 m) Boom, 5 ft 3 in (1.6 m) Arm, Dozer Blade Down Unit equipped with 0.18 m<sup>3</sup> (SAE heaped) bucket, 15 in (380 mm) rubber track and 518 lb (235 kg) counterweight.**

Load/Lift Point Height	LOAD RADIUS								MAXIMUM REACH		
	7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		16 ft (5.0 m)		REACH ⊙	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		END	SIDE
+13 ft (4.0 m)					2,170 lb* (990 kg)*	2,150 lb (980 kg)			14 ft 4 in (4.37 m)	2,220 lb* (1 000 kg)*	1,810 lb (820 kg)
+10 ft (3.0 m)					2,340 lb* (1 060 kg)*	2,100 lb (950 kg)			16 ft 3 in (4.96 m)	2,150 lb* (970 kg)*	1,400 lb (630 kg)
+7 ft (2.0 m)	6,610 lb* (3 000 kg)*	6,440 lb (2 920 kg)	3,660 lb* (1 660 kg)*	3,220 lb (1 460 kg)	2,850 lb* (1 290 kg)*	1,990 lb (900 kg)	2,530 lb* (1 150 kg)*	1,330 lb (600 kg)	17 ft 3 in (5.26 m)	2,240 lb* (1 010 kg)*	1,210 lb (550 kg)
+3 ft (1.0 m)			5,150 lb* (2 340 kg)*	2,910 lb (1 320 kg)	3,470 lb* (1 580 kg)*	1,850 lb (840 kg)	2,780 lb* (1 260 kg)*	1,270 lb (580 kg)	17 ft 6 in (5.33 m)	2,480 lb* (1 120 kg)*	1,130 lb (510 kg)
Groundline	4,160 lb* (1 890 kg)*	4,160 lb* (1 890 kg)*	5,920 lb* (2 680 kg)*	2,730 lb (1 240 kg)	3,910 lb* (1 770 kg)*	1,750 lb (800 kg)	2,940 lb* (1 330 kg)*	1,230 lb (560 kg)	17 ft 0 in (5.17 m)	2,820 lb* (1 280 kg)*	1,160 lb (530 kg)
-3 ft (-1.0 m)	6,870 lb* (3 120 kg)*	5,430 lb (2 460 kg)	5,890 lb* (2 670 kg)*	2,690 lb (1 220 kg)	3,950 lb* (1 790 kg)*	1,710 lb (780 kg)			15 ft 8 in (4.77 m)	3,040 lb* (1 380 kg)*	1,310 lb (590 kg)
-7 ft (-2.0 m)	8,420 lb* (3 820 kg)*	5,550 lb (2 520 kg)	5,100 lb* (2 310 kg)*	2,730 lb (1 240 kg)	3,330 lb* (1 510 kg)*	1,750 lb (790 kg)			13 ft 2 in (4.01 m)	3,310 lb* (1 500 kg)*	1,740 lb (790 kg)
-10 ft (-3.0 m)	4,700 lb* (2 130 kg)*	4,700 lb* (2 130 kg)*							8 ft 3 in (2.52 m)	3,570 lb* (1 620 kg)*	3,570 lb* (1 620 kg)*

NOTE: Lifting capacity are based on ISO 10567.

Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

The lift point is a hook located on the back of the bucket.

\*Indicates load limited by hydraulic capacity.

**9 ft 10 in (3.0 m) Boom, 6 ft 3 in (1.9 m) Arm, Dozer Blade Down Unit equipped with 0.18 m<sup>3</sup> (SAE heaped) bucket, 15 in (380 mm) rubber track and 739 lb (335 kg) counterweight.**

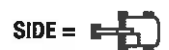
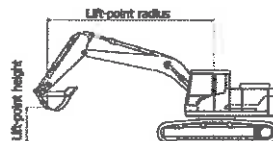
Load/Lift Point Height	LOAD RADIUS								MAXIMUM REACH		
	3 ft (1.0 m)		7 ft (2.0 m)		10 ft (3.0 m)		13 ft (4.0 m)		REACH ⊙	CAPACITY	
	END	SIDE	END	SIDE	END	SIDE	END	SIDE		END	SIDE
+13 ft (4.0 m)									15 ft 6 in (4.72 m)	1,860 lb* (850 kg)*	1,690 lb (770 kg)
+10 ft (3.0 m)					2,070 lb* (940 kg)*	2,070 lb* (940 kg)*	2,150 lb* (980 kg)*	1,500 lb (680 kg)	17 ft 3 in (5.27 m)	1,800 lb* (820 kg)*	1,350 lb (610 kg)
+7 ft (2.0 m)			3,170 lb* (1 440 kg)*	3,170 lb* (1 440 kg)*	2,610 lb* (1 180 kg)*	2,150 lb (970 kg)	2,360 lb* (1 070 kg)*	1,450 lb (660 kg)	18 ft 3 in (5.55 m)	1,860 lb* (840 kg)*	1,180 lb (540 kg)
+3 ft (1.0 m)			4,770 lb* (2 170 kg)*	3,150 lb (1 430 kg)	3,280 lb* (1 490 kg)*	2,000 lb (910 kg)	2,660 lb* (1 200 kg)*	1,380 lb (630 kg)	18 ft 5 in (5.61 m)	2,030 lb* (920 kg)*	1,120 lb (510 kg)
Groundline	4,070 lb* (1 840 kg)*	4,070 lb* (1 840 kg)*	5,770 lb* (2 620 kg)*	2,930 lb (1 330 kg)	3,800 lb* (1 730 kg)*	1,890 lb (860 kg)	2,880 lb* (1 310 kg)*	1,320 lb (600 kg)	17 ft 11 in (5.46 m)	2,380 lb* (1 070 kg)*	1,140 lb (520 kg)
-3 ft (-1.0 m)	6,160 lb* (2 790 kg)*	5,720 lb (2 600 kg)	5,980 lb* (2 700 kg)*	2,860 lb (1 300 kg)	3,980 lb* (1 800 kg)*	1,830 lb (830 kg)	2,880 lb* (1 310 kg)*	1,300 lb (590 kg)	16 ft 8 in (5.08 m)	2,800 lb* (1 270 kg)*	1,260 lb (570 kg)
-7 ft (-2.0 m)	9,210 lb* (4 180 kg)*	5,820 lb (2 640 kg)	5,400 lb* (2 450 kg)*	2,880 lb (1 300 kg)	3,160 lb* (1 440 kg)*	1,840 lb (830 kg)			14 ft 5 in (4.40 m)	3,050 lb* (1 380 kg)*	1,600 lb (730 kg)
-10 ft (-3.0 m)	6,150 lb* (2 790 kg)*	6,040 lb (2 740 kg)	3,660 lb* (1 660 kg)*	3,010 lb (1 360 kg)					10 ft 4 in (3.16 m)	3,350 lb* (1 520 kg)*	2,770 lb (1 260 kg)

NOTE: Lifting capacity are based on ISO 10567.

Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

The lift point is a hook located on the back of the bucket.

\*Indicates load limited by hydraulic capacity.



## STANDARD EQUIPMENT

### ENGINE

Yanmar 4TNV98C  
Engine access under rear hood  
Glow plug starting aid  
Dry type air cleaner with restriction indicator

### ELECTRICAL

12-volt electrical starting system  
Heavy-duty battery  
Battery Master Switch  
Key Start  
Anti-Theft-Engine starting passwords  
Front and rear working lights  
12 V power outlet  
Auto-idle deature with on/off switch  
Horn

### HYDRAULICS

Auxiliary hydraulics – independent single and bi-directional – and plumbing to arm  
Large hydraulic oil cooler  
Control pattern selector valve  
Cylinder rod protection covers – Boom

### TRACK DRIVE

Rubber tracks  
Automatic 2-speed travel  
Fully hydrostatic drive system  
Sealed and lubricated track rollers  
Track tension adjustment – grease type

### UPPER STRUCTURE

Conventional radius tail swing  
Standard arm: 5 ft 3 in (1.6 m)  
Bucket linkage with lifting hook  
Thumb bracket

### OPERATOR ENVIRONMENT

See page 1

### OTHER

Swing boom – 80° left/50° right  
Hydraulic backfill blade

## OPTIONAL EQUIPMENT

### OPERATOR ENVIRONMENT

Rearview camera  
Travel alarm

### TRACK OPTIONS

Tracks:  
Steel Tracks 1 ft 3 in (380 mm)  
Steel Tracks 1 ft 6 in (450 mm)  
Steel Tracks with Rubber Pads  
1 ft 4 in (400 mm)  
Rubber Link Tracks 1 ft 4 in (400 mm)  
Rubber Tracks 1 ft 4 in (400 mm)  
Track guides:  
Full  
3-piece

### OTHER

Heavy counterweight: 220 lb (100 kg)  
Optional long arm: 6 ft 3 in (1.9 m)  
Hydraulic quick coupler provision  
Kiac coupler  
Mechanical coupler  
Hydraulic hammer  
Beacon  
2nd auxiliary circuit  
Hydraulic coupler

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CASE Construction Equipment is biodiesel-friendly. NOTE: All engines meet current EPA emissions regulations. All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.



Always read the Operator's Manual before operating any equipment. Inspect equipment before using it, and be sure it is operating properly. Follow the product safety signs and use any safety features provided.

Form No. CCE201704CX57C  
Replaces Form No. CCE201702CX57C

CX57C

4 of 4



**CASE**  
CONSTRUCTION

# Mini Excavators

C SERIES



CX17C

CX26C

CX33C

CX37C

CX57C

CX60C

**SINCE 1842**





**CX17C**



**CX26C**



**CX33C**



**CX37C**



**CX57C**



**CX60C**

# More power. More productivity. More value.

Introducing the C Series, CASE's expanded line of mini excavators that now includes six models from 1.7 to 6.0 metric tons. These compact yet powerful machines are ideal for use in tight spaces and applications such as general and residential construction, landscaping and utility work.

- + Tier 4 Final engines
- + Zero or short tail swing
- + Standard auxiliary hydraulics
- + Thumb ready
- + Automatic 2-speed travel
- + Centralized grease points
- + Boom and blade guards
- + Standard pattern change valve

C Series mini excavators provide parallel, unobstructed operation near obstacles, tree lines and foundations thanks to their zero, short-tail or conventional swing design and independent center swing boom that can be offset left or right within an operating range.

Backfilling is provided by the hydraulically controlled backfill blade and surface damage is kept to a minimum due to the standard, durable rubber tracks. Optional steel tracks are available for even greater protection.





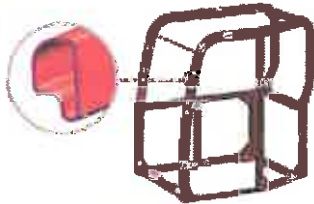


## DESIGNED FOR DURABILITY AND PERFORMANCE

### ENGINEERED FOR SMOOTH OPERATION

Innovative hydraulic system technologies make the C Series fast, smooth and easy to control. Fuel-efficient Tier 4 Final engines provide proven, reliable power.





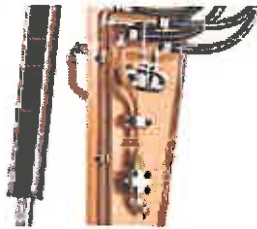
#### **RUGGED UPPER AND LOWER FRAME**

The upper frame is designed with optimum structural integrity to absorb impact and operational stress. The x-style center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.



#### **ADVANCED HYDRAULIC SYSTEM**

The C Series advanced hydraulic system includes an arm flow summation system and a swing parking brake for smooth and fine control. Other valuable features include a hydraulic damper in the travel pedal and a hydraulically lubricated swing reducer with a leak-free grease chamber.



#### **STANDARD AUXILIARY HYDRAULICS**

All C Series machines come standard with auxiliary hydraulics directly controlled from the joystick—giving you the versatility to match your working conditions.



#### **AUTO SHIFT TRAVELING SYSTEM**

Auto Shift traveling system automatically downshifts when the load increases to enhance travel torque on slopes and in difficult conditions, and shifts back up to secure a faster travel speed after the load decreases.



#### **LONG-LIFE COMPONENTS**

C Series mini excavators are equipped with bushings designed for long-life lube intervals, polymer shims (wear resistant, noise reducing), long-life hydraulic filters, long-life hydraulic oil, more efficient cooling systems and integrated preheating systems. These lasting components help extend service intervals, minimize operating costs and reduce machine downtime.



#### **STANDARD PATTERN CHANGE VALVE**

Changing joystick patterns from ISO to SAE is made easy with the standard pattern change valve.



#### **OPTIONAL LONG ARM WITH HEAVY COUNTERWEIGHT**

If you need more reach and dig depth, equip your machine with the optional long arm. The longer dipper arm reaches farther from one spot to do more work without repositioning the machine. The long arm option includes an additional counterweight that enhances the C Series mini excavator's lifting capabilities.



## EFFICIENT AND VERSATILE

### COMPACT DESIGN

The C Series compact design allows the operator to work in confined areas, like close to buildings, on the side of roadways and in urban areas. The C Series variable undercarriage\* provides easy and efficient operation in any limited-space work environment.

### EASY TO TRANSPORT

With their compact design, the CX17C through CX37C models might not require special towing equipment or licensing.\*\*

### VARIABLE BOOM SWING

The boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range. Plus, increased swing torque provides enhanced operating capability on the slope.



\*Exclusive to the CX17C.

\*\*Always check your state and local laws for applicable loading regulations and requirements.

# DO MUCH MORE THAN DIG

## ADD ATTACHMENTS, ADD PROFITABILITY

For many jobs requiring a mini excavator, digging is just the beginning. Attachments allow you to do more with a single machine — giving your business even greater versatility.

That's why CASE C Series mini excavators are equipped to make using attachments easy. The C Series lineup is compatible with a wide range of buckets, augers, thumbs, grapples, hydraulic hammers and more from numerous attachment manufacturers, so you're sure to find the right fit for your specific application. Consult your CASE dealer for details.

### ATTACHMENTS INCLUDE:



Augers



Hammers



Plate Compactor



SmartFit™  
Bucket Teeth



Track Options



Standard Auxiliary  
Hydraulics

### MECHANICAL, HYDRAULIC AND KLAC QUICK COUPLERS

Avoid the elements and downtime by quickly switching attachments from the comfort of your cab, thanks to a hydraulic quick coupler option.



## OPERATE IN COMFORT

### NEWLY DESIGNED CAB\*

If you can comfortably stay in the seat longer, you'll be able to get more work done. The C Series cab ensures you remain comfortable, whether you spend one hour or an entire day at the controls. An ergonomically designed suspension seat, adjustable arm rests and a spacious environment helps to minimize operator fatigue.

Quieter, temperature controlled and easy to operate, C Series mini excavators offer operator-friendly ergonomic controls that keep you productive all day long. Also, operators can fully customize their work environment and operating preferences to fit their individual needs.

\*Features on this page are available on the CX50 and CX60.



#### WIDE CAB

The newly designed cab provides operators with more space and excellent visibility of both the cab interior and the view around the machine. This puts the operator in a better position to work comfortably.

#### ADVANCED LCD CLUSTER

Operators can select personal machine preferences. The monitor displays engine rpm, engine oil temperature, water temperature and information for all electronic devices. Buttons provided for auto idle mode, max power mode and travel speed. A security feature prevents the machine from starting without a proper password.

#### VENTILATION SYSTEM

A full, auto air conditioning system provides the operator with optimum air temperature.

#### BLUETOOTH RADIO/ USB CONNECTOR

Enjoy an advanced audio system with AM/FM stereo and USB/iPod connector. A Bluetooth hands-free feature is available.





**ERGONOMIC JOYSTICK**  
Ergonomically designed joysticks reduce operator fatigue during the workday.



**ACCELERATION DIAL WITH LED LIGHT**  
The acceleration dial is easy to control and recognizable in dark working conditions thanks to an LED light.



**ROLLER SHADE**  
A large upper roof glass provides additional visibility and a roller shade is provided to reduce glare and sunlight.



**PEDALS**  
Pedals are designed for maximum comfort and spaced for low effort.

## MAINTENANCE MADE SIMPLE

### A CASE HALLMARK: GROUND-LINE ACCESS

When you invest in CASE equipment, you need it to last. We make it simple, and C Series mini excavators are no exception. From wide open swing-out access panels to ground-level sight gauges and service points, you can do daily maintenance in a matter of minutes. It's the easiest way to help you get the most performance and longer life out of your machine.

*The CX60C also features a tilting cab for even greater access to maintenance points.*

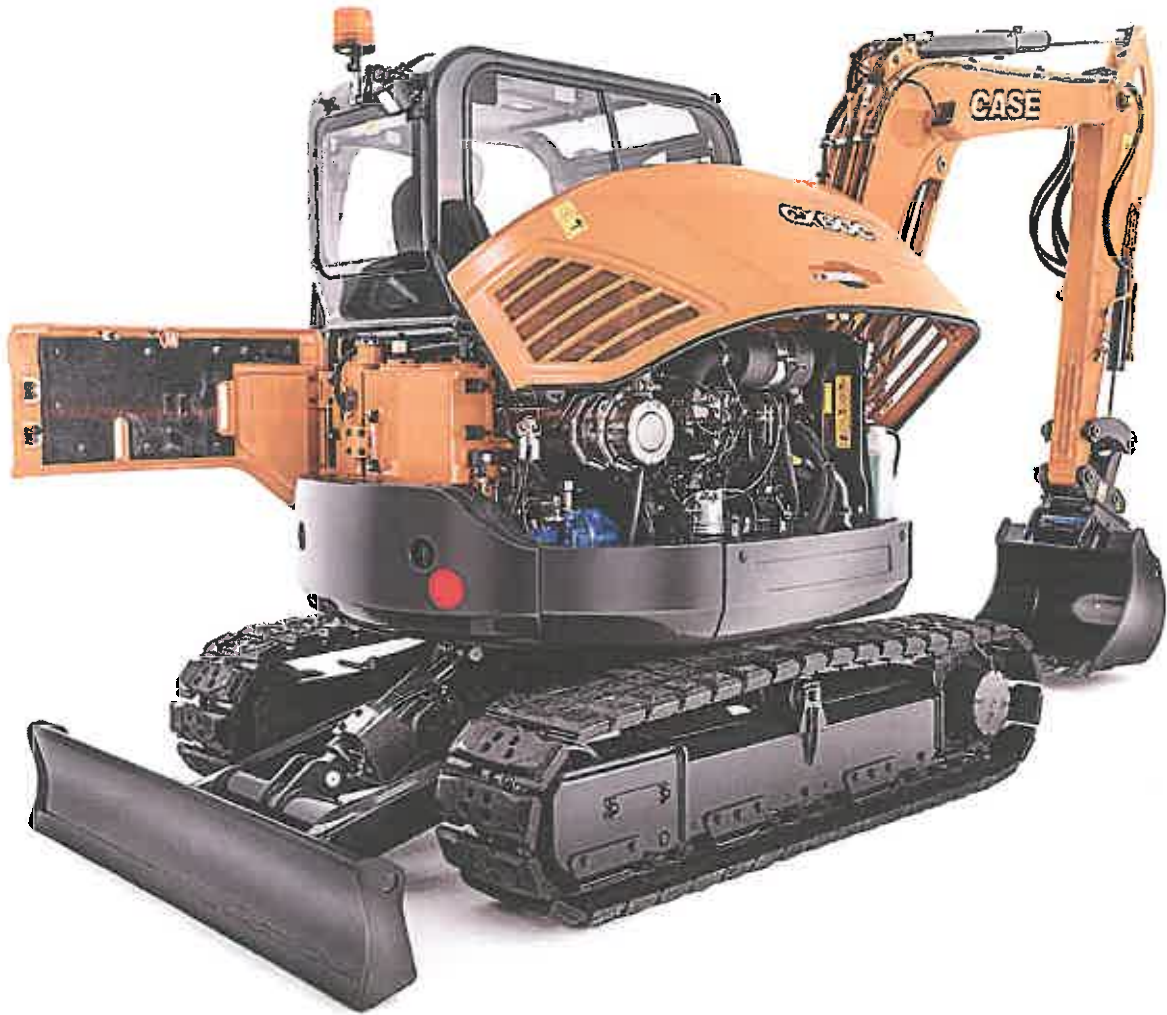


### EASY ACCESS TO EVERYTHING

- 1 Engine oil check and fill
- 2 Air filter
- 3 Fuel filter
- 4 Coolant reservoir
- 5 Radiator
- 6 Fuel sight gauge
- 7 Fuel fill
- 8 Hydraulic sight gauge
- 9 Hydraulic fill
- 10 Blade guards
- 11 Grouped grease points







## **SUPPORT COMES STANDARD**

### **BASE WARRANTY COVERAGE: 2-YEAR/3,000-HOUR FULL MACHINE LIMITED WARRANTY**

#### **UPTIME SOLUTIONS**

Your CASE dealer can provide solutions to meet all your needs and keep you productive.



#### **STRONGER PRODUCT SUPPORT SOLUTIONS**

Your CASE dealer knows best how you can maximize your equipment investment and uptime—with genuine CASE parts, expert service and a complete range of product support solutions including CASE remanufactured and all-makes parts. CASE supports better parts availability and faster deliveries through nine parts distribution centers in North America and a forecasting system to ensure that the right parts will be there when you need them. And only CASE dealers have exclusive access to the Electronic Service Tool (EST) that quickly pinpoints machine issues. Just ask your dealer for details.

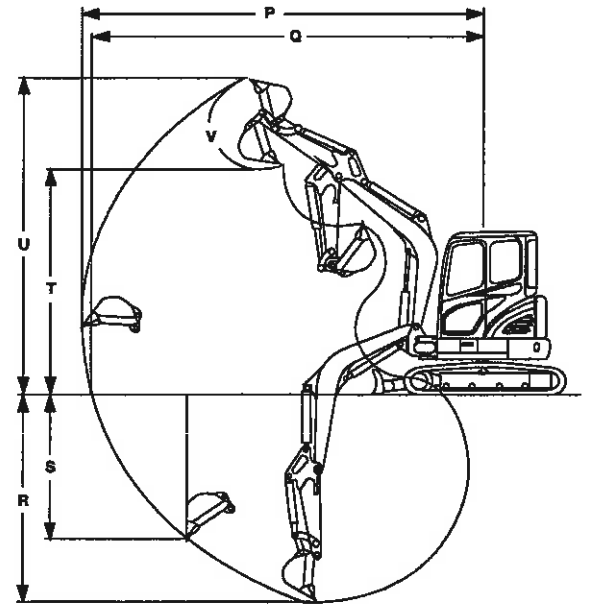
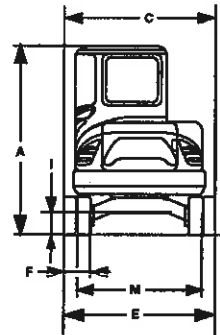
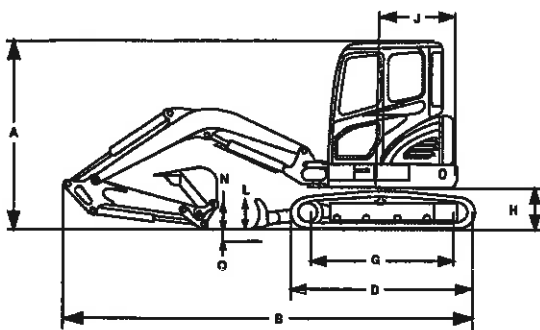


#### **FLEXIBLE FINANCIAL OPTIONS**

Specialized finance programs and flexible leasing packages put you in the driver's seat of industry-leading CASE equipment while no-nonsense warranties and comprehensive protection plans ensure that your equipment is protected. As the only finance company dedicated to CASE, we offer strong products and services designed around your unique needs and are the only ones supported by the helpful service professionals at your CASE dealer.

\*Please see your CASE dealer for limitations, exclusions and confirmation of policies in effect.

## SPECIFICATIONS AND DIMENSIONS



Line drawings are for illustrative purpose only and may not be exact representation of unit.

DIMENSIONS	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Arm	3 ft 2 in (0.96 m)	3 ft 8 in (1.12 m)	4 ft 3 in (1.3 m)	4 ft 3 in (1.3 m)	5 ft 3 in (1.6 m)	4 ft 10 in (1.48 m)
A. Overall Height	7 ft 7 in (2 320 mm)	8 ft 2 in (2 500 mm)	8 ft 2 in (2 500 mm)	8 ft 2 in (2 500 mm)	8 ft 4 in (2 550 mm)	8 ft 4 in (2 550 mm)
B. Overall Transport Length	11 ft 5 in (3 480 mm)	13 ft 3 in (4 030 mm)	15 ft 3 in (4 640 mm)	15 ft 9 in (4 790 mm)	19 ft 4 in (5 900 mm)	18 ft 3 in (5 600 mm)
C. Width of Upper Structure	2 ft 11 in (890 mm)	4 ft 7 in (1 400 mm)	5 ft 0 in (1 530 mm)	5 ft 0 in (1 530 mm)	6 ft 1 in (1 850 mm)	6 ft 4 in (1 940 mm)
D. Track Overall Length	5 ft 3 in (1 590 mm)	6 ft 3 in (1 910 mm)	7 ft 0 in (2 130 mm)	7 ft 0 in (2 130 mm)	8 ft 4 in (2 530 mm)	8 ft 4 in (2 550 mm)
E. Track Overall Width	3 ft 3 in (990 mm)	5 ft 1 in (1 550 mm)	5 ft 1 in (1 550 mm)	5 ft 9 in (1 740 mm)	6 ft 4 in (1 920 mm)	6 ft 6 in (1 990 mm)
F. Track Shoe Width	9.0 in (230 mm)	9.8 in (250 mm)	12 in (300 mm)	12 in (300 mm)	15 in (380 mm)	15 in (380 mm)
G. Center to Center - Idler to Sprocket	4 ft 0 in (1 230 mm)	4 ft 11 in (1 490 mm)	5 ft 7 in (1 700 mm)	5 ft 7 in (1 700 mm)	6 ft 6 in (1 990 mm)	6 ft 6 in (1 990 mm)
H. Upper Structure Ground Clearance	1 ft 5 in (440 mm)	1 ft 8 in (510 mm)	1 ft 9 in (540 mm)	1 ft 9 in (540 mm)	2 ft 3 in (690 mm)	2 ft 2 in (660 mm)
I. Minimum Ground Clearance	6.7 in (170 mm)	11 in (290 mm)	11 in (290 mm)	11 in (290 mm)	1 ft 3 in (380 mm)	1 ft 3 in (380 mm)
J. Tail Swing Radius	2 ft 1 in (645 mm)	2 ft 6 in (775 mm)	2 ft 6 in (775 mm)	2 ft 10 in (870 mm)	5 ft 5 in (1 650 mm)	3 ft 7 in (1 080 mm)
Boom Swing	70° left/54° right	75° left/50° right	75° left/50° right	75° left/50° right	80° left/50° right	70° left/50° right
Tail Swing Overhang	0 ft 0 in (0 mm)	0 ft 0 in (0 mm)	0 ft 0 in (0 mm)	0 ft 0 in (0 mm)	2 ft 3 in (690 mm)	3 in (85 mm)
BLADE SPECS	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
L. Backfill Blade Height	9.8 in (250 mm)	1 ft 0 in (300 mm)	1 ft 1 in (330 mm)	1 ft 3 in (370 mm)	1 ft 2 in (350 mm)	1 ft 2 in (350 mm)
M. Backfill Blade Width	4 ft 3 in (1 300 mm)	5 ft 0 in (1 500 mm)	5 ft 1 in (1 550 mm)	5 ft 9 in (1 740 mm)	7 ft 4 in (1 920 mm)	6 ft 7 in (2 010 mm)
N. Backfill Blade Rise Above Ground	11.2 in (285 mm)	1 ft 1 in (330 mm)	1 ft 4 in (400 mm)	1 ft 3 in (375 mm)	1 ft 3 in (390 mm)	8 in (200 mm)
O. Backfill Blade Dig Depth	8.9 in (225 mm)	1 ft 3 in (380 mm)	1 ft 5 in (435 mm)	1 ft 3 in (390 mm)	1 ft 11 in (590 mm)	2 ft 4 in (700 mm)
PERFORMANCE SPECS	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
P. Maximum Dig Radius	12 ft 10 in (3 900 mm)	14 ft 8 in (4 480 mm)	17 ft 0 in (5 180 mm)	17 ft 5 in (5 315 mm)	20 ft 2 in (6 150 mm)	25 ft 5 in (6 150 mm)
Q. Dig Radius at Groundline	12 ft 6 in (3 800 mm)	14 ft 3 in (4 340 mm)	16 ft 7 in (5 060 mm)	17 ft 1 in (5 200 mm)	19 ft 9 in (6 010 mm)	24 ft 11 in (6 010 mm)
R. Maximum Dig Depth	7 ft 3 in (2 200 mm)	7 ft 11 in (2 420 mm)	9 ft 11 in (3 035 mm)	10 ft 3 in (3 135 mm)	12 ft 6 in (3 820 mm)	11 ft 9 in (3 570 mm)
S. Vertical Straight Wall Dig Depth	4 ft 4 in (1 320 mm)	4 ft 9 in (1 460 mm)	6 ft 8 in (2 030 mm)	7 ft 2 in (2 190 mm)	10 ft 6 in (3 200 mm)	10 ft 6 in (3 200 mm)
T. Dump Height	8 ft 5 in (2 570 mm)	9 ft 7 in (2 930 mm)	10 ft 9 in (3 275 mm)	11 ft 3 in (3 425 mm)	13 ft 3 in (4 050 mm)	12 ft 10 in (3 930 mm)
U. Overall Reach Height	11 ft 9 in (3 580 mm)	13 ft 7 in (4 150 mm)	15 ft 3 in (4 650 mm)	15 ft 9 in (4 810 mm)	19 ft 0 in (5 780 mm)	18 ft 8 in (5 680 mm)
V. Bucket Rotation	187°	168°	168°	180°	180°	180°
Arm Digging Force - ISO	1,920 lbf (870 kgf/8.5 kN)	3,280 lb (1 490 kgf/14.6 kN)	4,390 lbf (1 990 kgf/19.5 kN)	4,390 lbf (1 990 kgf/19.5 kN)	7,190 lbf (3 260 kgf/31.9 kN)	5,950 lbf (2 700 kgf/26.5 kN)
Bucket Digging Force - ISO	3,490 lbf (1 580 kgf/15.5 kN)	4,740 lbf (2 150 kgf/21.1 kN)	6,900 lbf (3 130 kgf/30.7 kN)	6,900 lbf (3 130 kgf/30.7 kN)	9,550 lbf (4 330 kgf/42.4 kN)	9,190 lbf (4 170 kgf/40.9 kN)

## SPECIFICATIONS AND DIMENSIONS CONTINUED

OPERATOR STATION						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
	ROPS/FOPS with 2-post canopy	ROPS/FOPS with 4-post canopy or Enclosed Cab	ROPS/FOPS with 4-post canopy	ROPS/FOPS with 4-post canopy or Enclosed Cab	Enclosed Cab	Enclosed Cab
OPERATING WEIGHT						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Type	Canopy	Canopy	Canopy	Canopy	Cab	Cab
Configuration	Short arm	Short arm	Long arm	Long arm	Long arm	Long arm
Total	3,910 lb (1 775 kg)	5,520 lb (2 505 kg)	7,420 lb (3 365 kg)	8,350 lb (3 790 kg)	12,320 lb (5 590 kg)	13,430 lb (6 090 kg)
ENGINE						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Model	Kubota D902	Kubota D1305	Yanmar 3TNV88F-ESHYB	Yanmar 3TNV88F-ESHYB	Yanmar 4TNV98C	Yanmar 4TNV98C
Emissions Certification	Tier 4 Final	Tier 4 Final	Tier 4 Final (CEGR)	Tier 4 Final (CEGR)	Tier 4 Final (CEGR/DPF)	Tier 4 Final (CEGR/DPF)
Fuel	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Cylinders	3	3	3	3	4	4
Displacement	54.8 in <sup>3</sup> (898 cc)	77.0 in <sup>3</sup> (1 261 cc)	100.2 in <sup>3</sup> (1 642 cc)	100.2 in <sup>3</sup> (1 642 cc)	203 in <sup>3</sup> (3 319 cc)	203 in <sup>3</sup> (3 319 cc)
Fuel Injection	Mechanical	Mechanical	Mechanical w/ electronic governor	Mechanical w/ electronic governor	Electronic common rail	Electronic common rail
Gross Horsepower – SAE J1995	16.8 hp (12.5 kW) @ 2300 RPM	24.8 hp (18.5 kW) @ 2300 RPM	24.4 hp (18.2 kW) @ 2200 RPM	24.4 hp (18.2 kW) @ 2200 RPM	66.9 hp (49.9 kW) @ 2400 RPM	64.7 hp (48.3 kW) @ 2200 RPM
Cooling	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled	Water-cooled
DRIVETRAIN						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Travel Speeds:						
1st	1.4 mph (2.2 kph)	1.5 mph (2.4 kph)	1.5 mph (2.4 kph)	1.6 mph (2.5 kph)	1.4 mph (2.2 kph)	1.4 mph (2.2 kph)
2nd	2.5 mph (4.1 kph)	2.7 mph (4.3 kph)	2.6 mph (4.2 kph)	2.6 mph (4.2 kph)	2.6 mph (4.2 kph)	2.5 mph (4.0 kph)
Maximum Traction Force	3,300 lb (1 420 kg)	3,300 lb (1 420 kg)	6,835 lb (3 100 kg)	6,835 lb (3 100 kg)	11,680 lb (5 300 kg)	11,680 lb (5 300 kg)
Gradeability	30° (58%)	30° (58%)	30° (58%)	30° (58%)	35° (70%)	35° (70%)
Ground Pressure	ROPS - 3.98 psi	ROPS - 4.3 psi CAB - 4.6 psi	ROPS - 3.98 psi	ROPS - N/A CAB - 4.83 psi	CAB - 4.8 psi	CAB - 5.12 psi
SERVICE CAPACITIES						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Fuel Tank	5.3 gal (20 L)	7.9 gal (30 L)	7.9 gal (30 L)	10.5 gal (40 L)	31.7 gal (120 L)	21.7 gal (82 L)
Hydraulic Tank:						
Refill Capacity	3.4 gal (13 L)	7.1 gal (27 L)	7.1 gal (27 L)	9.8 gal (37 L)	18.5 gal (70 L)	15.9 gal (60 L)
Total System	6.1 gal (23 L)	14.5 gal (55 L)	14.5 gal (55 L)	15.9 gal (60 L)	31.7 gal (120 L)	29.1 gal (110 L)
Engine Oil w/ Filter Change	1.0 gal (3.7 L)	1.5 gal (5.7 L)	1.8 gal (6.7 L)	1.8 gal (6.7 L)	3.1 gal (11.6 L)	3.1 gal (11.6 L)
Radiator	0.9 gal (3.5 L)	1.3 gal (5 L)	1.5 gal (5.5 L)	1.5 gal (5.5 L)	2.5 gal (9.5 L)	2.9 gal (11 L)
ELECTRICAL						
	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
Voltage	12 Volts	12 Volts	12 Volts	12 Volts	12 Volts	12 Volts
Alternator Rating	40 amp	40 amp	55 amp	55 amp	60 amp	80 amp
Battery	1 x 12 V x 45 Ah 420 CCA	1 x 12 V x 58 Ah 680 CCA	1 x 12 V x 70 Ah 750 CCA	1 x 12 V x 70 Ah 750 CCA	1 x 12 V x 100 Ah 850 CCA	1 x 12 V x 100 Ah 850 CCA



HYDRAULICS	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
<b>Main Pumps</b>	Variable displacement tandem axial piston pump + gear pump	Variable displacement tandem axial piston pump	Variable displacement tandem axial piston pump	Variable displacement tandem axial piston pump	Variable displacement tandem axial piston pump	Variable displacement tandem axial piston pump
<b>Maximum Rated Flow x2</b>	5 + 3 gpm (18.8 + 11.3 L/min)	7.3 gpm (27.6 L/min)	9.9 gpm (37.4 L/min)	9.9 gpm (37.4 L/min)	15.3 gpm (57.8 L/min)	14.5 gpm (55 L/min)
<b>Auxiliary Flow</b>	7.2 gpm @ 2,466 psi (27.4 L/min @ 170 bar)	12.5 gpm @ 2,538 psi (47.2 L/min @ 175 bar)	16.0 gpm @ 2,973 psi (60.5 L/min @ 205 bar)	16.0 gpm @ 2,973 psi (60.5 L/min @ 205 bar)	25.4 gpm @ 3,191 psi (96.2 L/min @ 220 bar)	24.2 gpm @ 3,191 psi (91.6 L/min @ 220 bar)
<b>System Relief Pressure: Standard Overload Relief Valve</b>	2,420 psi (170 bar) 3,270 psi (230 bar)	3,130 psi (220 bar) 3,410 psi (240 bar)	3,270 psi (230 bar) 3,560 psi (250 bar)	3,270 psi (230 bar) 3,550 psi (250 bar)	3,130 psi (220 bar) 3,410 psi (240 bar)	3,130 psi (220 bar) 3,410 psi (240 bar)
<b>Pilot Control Hydraulic System: Pump Maximum Capacity</b>	Gear Pump 1.8 gpm (6.8 L/min)	Gear Pump 2.7 gpm (10.4 L/min)	Gear Pump 2.6 gpm (9.9 L/min)	Gear Pump 2.6 gpm (9.9 L/min)	Gear Pump 2.5 gpm (9.5 L/min)	Gear pump 2.4 gpm (9 L/min)
<b>Control Valves</b>	Pilot control for left/right track travel, boom, arm, bucket and swing. Manual control for breaker and backfill blade.					
<b>Swing: Motor</b>	Fixed displacement orbit	Fixed displacement axial piston motor	- Fixed displacement axial piston motor - Automatic spring applied hydraulic released brake	- Fixed displacement axial piston motor - Automatic spring applied hydraulic released brake	- Fixed displacement axial piston motor - Automatic spring applied hydraulic released brake	- Fixed displacement axial piston motor - Automatic spring applied hydraulic released brake
<b>Travel: Motor</b>	- Variable displacement axial piston - 2-stage planetary	- Variable displacement axial piston - 2-stage planetary - Automatic spring applied hydraulic released brake	- Variable displacement axial piston - 2-stage planetary - Automatic spring applied hydraulic released brake	- Variable displacement axial piston - 2-stage planetary - Automatic spring applied hydraulic released brake	- Variable displacement axial piston - 2-stage planetary - Automatic spring applied hydraulic released brake	- Variable displacement axial piston - 2-stage planetary - Automatic spring applied hydraulic released brake
OTHER SPECIFICATIONS	CX17C	CX26C	CX33C	CX37C	CX57C	CX60C
<b>Swing Speed</b>	0 – 9.5 RPM	0 – 9.1 RPM	0 – 9.0 RPM	0 – 9.5 RPM	0 – 9.1 RPM	0 – 8.8 RPM
<b>Underscarriage: Track Rollers</b>	3 each	1 upper/3 lower each	1 upper/4 lower each	1 upper/4 lower each	1 upper/5 lower each	1 upper/5 lower each
<b>Boom: Length</b>	5 ft 11 in (1.8 m)	6 ft 5 in (1.95 m)	7 ft 10 in (2.38 m)	8 ft 2 in (2.5 m)	9 ft 10 in (3.0 m)	9 ft 6 in (2.9 m)
<b>Arm: Standard Length</b>	3 ft 2 in (0.96 m)	3 ft 8 in (1.12 m)	4 ft 3 in (1.3 m)	4 ft 3 in (1.3 m)	5 ft 3 in (1.6 m)	4 ft 10 in (1.48 m)
<b>Long Arm Length</b>	3 ft 8 in (1.12 m)	4 ft 5 in (1.35 m)	5 ft 3 in (1.6 m)	5 ft 3 in (1.6 m)	6 ft 3 in (1.9 m)	6 ft 3 in (1.9 m)



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