



State of West Virginia  
Request For Quotation  
Construction

Procurement Folder : 636978

Document Description : Addendum No.01-Compact Excavator-Watters Smith Memorial SP

Procurement Type : Agency Purchase Order

Date Issued	Solicitation Closes	Solicitation No	Version	Phase
2019-11-05	2019-11-12 13:30:00	ARFQ 0310 DNR2000000018	2	Draft

SUBMIT RESPONSES TO:	VENDOR
BID RESPONSE DIVISION OF NATURAL RESOURCES PROPERTY & PROCUREMENT OFFICE 324 4TH AVE SOUTH CHARLESTON WV 25303-1228 US	<b>Vendor Name, Address and Telephone</b> STATE EQUIPMENT, INC. 560 NEW GOFF MOUNTAIN ROAD CROSS LANES, WV 25313 304-776-4405

**FOR INFORMATION CONTACT THE**

James H Adkins  
(304) 558-3397  
jamie.h.adkins@wv.gov

Signature X

FEIN # 550658298

DATE 11-11-19

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

**ADDITIONAL INFORMATION:**

Addendum

Addendum No. 01 is issued to publish and distribute the attached information to the Vendor Community.

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES WATTERS SMITH MEMORIAL STATE PARK PO BOX 296 LOST CREEK WV 26385-0296 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES WATTERS SMITH MEMORIAL STATE PARK 831 RR 3 LOST CREEK WV 26385 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
1	Compact Excavator	1.00000	EA	\$41,669.00	\$41,669.00

Commodity Code	Manufacturer	Model #	Specification
22101524	KUBOTA	KX033-4R3	MINI EXCAVATOR

**Extended Description**

Compact Excavator

**SCHEDULE OF EVENTS**

Line	Event	Event Date
1	Technical Question Deadline at 9:00AM EDT	2019-10-29

ADDENDUM ACKNOWLEDGEMENT FORM  
SOLICITATION NO.: ARFQ DNR20\*18

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.

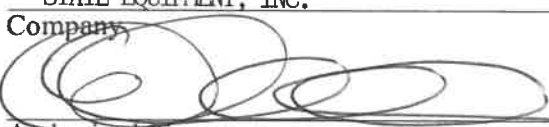
**Addendum Numbers Received:**

*(Check the box next to each addendum received)*

<input checked="" 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 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 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

11-11-19  
Date

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

DNR200000018	<b>Document Phase</b> Final	<b>Document Description</b> Compact Excavator - Watters Smith Memorial State Park	<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

**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.

  
GENERAL MANAGER  
\_\_\_\_\_  
(Name, Title)

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)

  
EDDIE ROWAN, JR. GENERAL MANAGER  
\_\_\_\_\_  
(Authorized Signature) (Representative Name, Title)

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

11-11-19  
\_\_\_\_\_  
(Date)

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

**Exhibit A - Pricing Page**  
West Virginia Division of Natural Resources  
Compact Excavator - Watters Smith Memorial State Park

<b>Item</b>	<b>Description</b>	<b>Brand / Model</b>	<b>Quantity</b>	<b>Unit Price</b>
1	Compact Excavator, Bobcat E32R or equal:	KUBOTA KX033-4R3	1	\$ 41,669.00

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

11-11-19  
\_\_\_\_\_  
Date

STATE OF WEST VIRGINIA  
Purchasing Division

# PURCHASING AFFIDAVIT

**CONSTRUCTION CONTRACTS:** Under W. Va. Code § 5-22-1(i), the contracting public entity shall not award a construction contract to any bidder that is known to be in default on any monetary obligation owed to the state or a political subdivision of the state, including, but not limited to, obligations related to payroll taxes, property taxes, sales and use taxes, fire service fees, or other fines or fees.

**ALL CONTRACTS:** 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: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, 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: 11-11-19

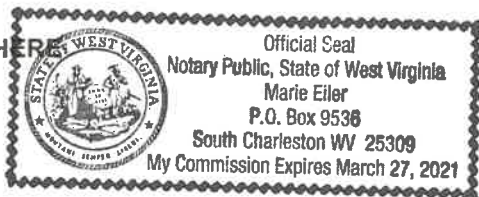
State of WEST VIRGINIA

County of KANAWHA, to-wit:

Taken, subscribed, and sworn to before me this 11<sup>th</sup> day of November, 2019

My Commission expires March 27, 2021.

AFFIX SEAL HERE



NOTARY PUBLIC

Marie Eiler



## Warranty Coverage effective on units sold as of 1/1/2019 (Please check on-line for update coverage)

Product Series	Usage Category	Unit / System Coverage	Coverage Period	Exclusion / Comments
BX, B, Standard L & Grand L Tractors	Non-Commercial Home & Residential use	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)	(does not include any implement, or loader/landscape utility tractors B26, L39, L45 and L47 see below)
		Limited Powertrain Warranty	72 Months or 2000 Hours (whichever occurs first)	
	Commercial use	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)	
		Limited Powertrain Warranty	36 Months or 2000 Hours (whichever occurs first)	
Loader/Landscaper Utility Tractors (B26, L47, M62 etc.)	All Usage	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)	(does not include loader/backhoe, see implement warranty below)
BX24, BX25, BX23S Utility Tractors	Non-Commercial Home & Residential use	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)	(except loader, backhoe, and mower deck, see implement warranty below)
		Limited Powertrain Warranty	72 Months or 2000 Hours (whichever occurs first)	
Commercial Use	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)		
	Limited Powertrain Warranty	36 Months or 2000 Hours (whichever occurs first)		
MX Tractors	Non-Commercial Home & Residential use	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	
		Limited Powertrain Warranty	72 Months or 3000 Hours (whichever occurs first)	
	Commercial Use	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	
		Limited Powertrain Warranty	36 Months or 3000 Hours (whichever occurs first)	
M Series Tractors	All Usage	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	PowerKrawler tracks - 12 months or 1000 hours, (whichever occurs first)
		Limited Powertrain Warranty	36 months or 3000 Hours (whichever occurs first)	(does not include any implements, see implement warranty below)
MH Series Tractors (M7)	All Usage	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	
		Limited Powertrain Warranty	36 months or 3000 Hours (whichever occurs first)	

Z, F series Tractors (including mower deck)	All Usage	Basic Standard Limited	24 Months	Except Z700, Z400, Z100 (see below)
Z700 Series	Non-Commercial Home & Residential use	Basic Standard Limited	48 Months or 750 Hours (whichever occurs first) Kawasaki Engine* (only - 36 months)	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
	Commercial Use	Basic Standard Limited	24 Months	
Z400, Series	Non-Commercial Home & Residential use	Basic Standard Limited	48 Months or 500 Hours (whichever occurs first) Kawasaki Engine* (only - 36 months)	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
	Commercial Use	Basic Standard Limited	24 Months	
Kommander ZG100, Z100, and T series tractors	All Usage	Basic Standard Limited	48 Months or 300 Hours (whichever occurs first)*	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
SZ Series Stand on Mower	All Usage	Basic Standard Limited	24 Months	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
W Series Walk Behind Mower	All Usage	Basic Standard Limited	24 Months	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
G, GR	Non-Commercial Home & Residential use	Basic Standard Limited	24 Months or 1500 Hours (whichever occurs first)	*Kawasaki engine warranty administered by Kawasaki, refer to Kawasaki warranty for detail
	Commercial Use	Basic Standard Limited	12 Months or 1500 Hours (whichever occurs first)	
SSV Skid Steer Loaders	All Usage	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	
SVL Compact Track Loaders	All Usage	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	Rubber tracks - 12 months or 1000 hours (whichever occurs first)
K, KX, U, R series Excavator and Wheel Loaders	All Usage	Basic Standard Limited	24 Months or 2000 Hours (whichever occurs first)	Rubber tracks - 12 months or 1000 hours (whichever occurs first)
RTV Utility Vehicles	All Usage	Basic Standard Limited	24 Months or 1000 Hours (whichever occurs first)	
Implements and Attachments (loaders, backhoes, mower decks, Snow blowers, Rotary Brooms, and Blades 24 months), etc.)	All Usage	Basic Standard Limited	24 Months	
Hay Tools (disc mowers, rakes, balers, etc.) and Spreaders	All Usage	Basic Standard Limited	12 Months	(Disc mower/conditioner cutterbar and gearbox - 24 months)
Replacement Diesel Engines	All Usage	Basic Standard Limited	12 Months	(or remainder of unit warranty, whichever is longer)
Replacement Parts	All Usage	Basic Standard Limited	90 Days	(or remainder of unit warranty, whichever is longer)

Emissions Warranty: Designated units are covered by emissions warranty on certain components. ... See page 10 - 43 for details





For Earth, For Life  
Kubota

**KX**

KUBOTA COMPACT EXCAVATOR  
**KX033-4**

Designed for efficiency, built for stability, and created for comfort,  
the new KX033-4 redefines the compact excavator.



State Equipment, Inc.  
560 New Goff Mountain Road  
Cross Lanes, WV 25313  
304-776-4405



## Aux1 Diverter Valve

The diverter valve allows auxiliary oil to be diverted to the operation of auxiliary attachments without removal of the thumb attachment pipeline for increased efficiency on the go.

**A roomy and comfortable cabin.  
Impressive stability and incredible power.  
The KX033-4 is a compact excavator with  
class-busting performance.**

# WORKABILITY



# Extraordinary Stability and Lifting Capacity

With the stability and lifting capacity of a much bigger machine, the 3-ton class KX033-4 offers a level of performance to efficiently handle a wide variety of tough excavating jobs. An innovative counter balance ensures superior excavator stability, while the low center of gravity and double-flanged lower track rollers deliver safe and efficient operation when working to the side with hydraulic attachments or lifting heaving objects.

## Hydraulic Angle Blade (Optional)

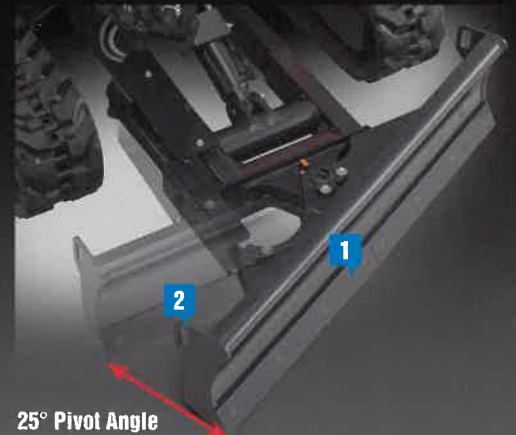
Save time and work more efficiently. With a simple movement of the new thumb operated rocker switch on the dozer lever, the hydraulic angle blade can be angled to the right or left to push soil to the side as the machine moves forward, eliminating the need for repetitive repositioning at right angles when backfilling trenches.

## Strong Bucket Breakout Force

When heavily loaded, the KX033-4's outstanding bucket breakout force lets you handle even the toughest excavating jobs with speed and efficiency.

## Wide Working Range

The KX033-4's powerful and responsive front working group gives you the confidence to handle a wide range of digging, lifting, and loading jobs.



25° Pivot Angle

### 1. Bolt-on Cutting Edge\*

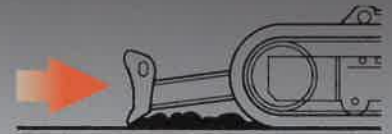
*\*Standard on Angle Blade models.*

### 2. Durable Fixed Hook

## Float Position

The float function is a standard feature on the KX033-4\*. Ground finishing work can be completed quickly and simply without the need to adjust the dozer height. After backfilling, simply travel backwards along the covered ditch with the dozer in the float position.

*\*Standard on both angle blade & straight blade models.*



## Easy Operation

Angle blade operation has been enhanced for easier control. Up, down and float movements are made with a single lever, while left and right angle positioning is made by the rocker switch on top of the lever.



## Generous Approach Angle

Navigate ramps and over obstacles with confidence—Kubota's angle blade has a 32 degree approach angle.



## Tight Spots

The angle blade lets you work efficiently in confined spaces, alongside walls, and near busy roads. No wider than the tracks, it's also easy to transport between jobs.





# DELUXE INTERIOR

With a larger entrance, more legroom, a spacious interior designed for comfort, and enhanced ergonomics that simplify routine operations, the KX033-4's luxurious cabin redefines operator efficiency.

## Easy-open Front Slide Window

Unlike many excavator windows, the front glass window of the KX033-4 opens with ease. Just flip the latches on the window sides and slide it up. A gas-assist mechanism makes this action almost effortless.



## Wider Entrance

The KX033-4 features a much wider door and more ample foot space, making it a breeze to get on and off the excavator.







**A. Deluxe Suspension Seat**

Kubota's high back suspension seat has been designed for maximum operator comfort and to minimize fatigue during extended machine operation. The deluxe reclining seat offers weight compensation, firm adjustable wrist support and retractable seat belts.

**B. 2-speed Travel Switch**

By placing the 2-speed travel switch on the dozer lever, dozing operations can be done faster and easier.



**C. Cup Holder**

With the convenience of a bigger cup holder, you can quench your thirst and work longer without leaving the cab. Or store your cell phone\*. The charging port is located conveniently close by.  
*\*Cell phones should not be used during machine operation.*

**D. Wrist Rest**

A thoughtfully designed wrist rest enhances operation and reduces operator fatigue.

**E. Air Conditioning**

Enhanced air circulation in the cab results from a more powerful cooling/heating unit and six vents positioned around the operator to offer optimal all weather comfort.



**TPSS**

Operators can select the ISO pattern or SAE backhoe pattern by turning a switch positioned within easy reach while seated.

# SUPERIOR PERFORMANCE

Superior power and outstanding versatility give you the confidence to handle even the most challenging excavating jobs. Precise oil flow makes auxiliary attachments easier to operate. A powerful breakout force enhances productivity. And an array of enhanced functions ensures smooth operation.

## Kubota Original Direct Injection Engine

The KX033-4 is powered by Kubota's impressive direct injection engine. Engineered with the power to maximize digging and lifting performance, it also delivers minimized noise, vibration and fuel consumption, and is as well a non-DOC/DPF Tier 4 Final certified engine.



## Proportional Flow Control of Auxiliary Circuit (AUX1) and Maximum Oil Flow Setting

Now you can conveniently program up to five different oil flow rates for specific attachments on the new digital control panel. No tools or manual adjustment is required. And, with a maximum AUX 1 circuit oil flow now up to 15.8 GPM (60 liters) you can operate a larger variety of auxiliary attachments than ever before.



## Extendable Arm (Optional)

Ideal for those hard to reach areas, the KX033-4's arm can be quickly and easily extended up to 31 inches (800 mm), boosting productivity as well as efficiency.

## Third-line Hydraulic Return

A standard third-line hydraulic return system allows oil return directly to the tank without running through the control valves during operation of one-way hydraulic attachments. This decreases the likelihood of oil contamination, and results in less back pressure and greater oil flow efficiency.

## Auto-shift

The KX033-4 auto-shift automatically shifts travel speed from high to low, depending on traction and terrain, allowing smoother operation when dozing and turning.







### **Auto Idling System**

When KX033-4 control levers are in neutral for more than 4 seconds, engine RPM automatically idles. Move any control lever, and engine RPM immediately returns. This innovative feature not only lowers noise and exhaust emissions, but also reduces operating cost and fuel consumption. It can be turned on and off.

### **Swivel Negative Brake**

The swivel negative brake automatically locks the swivel function in its current position. This prevents unexpected machine movement. It's particularly useful during work on slopes or when towing the excavator between worksites.

### **Large-capacity Variable Displacement Pump**

The KX033-4's performance matched boom, arm and bucket movements are the best in the industry. Kubota's unique hydraulic system and large-capacity variable displacement pumps give you the precise control needed to operate smoothly and efficiently in confined quarters. With the hydraulic power harnessed in the KX033-4's front working group superior digging force is available when you need it.

### **Front Bush Pins**

Bushings on all pivot points on the front attachment and connecting points on the swing bracket is one more feature that adds to the enviable durability of this machine.

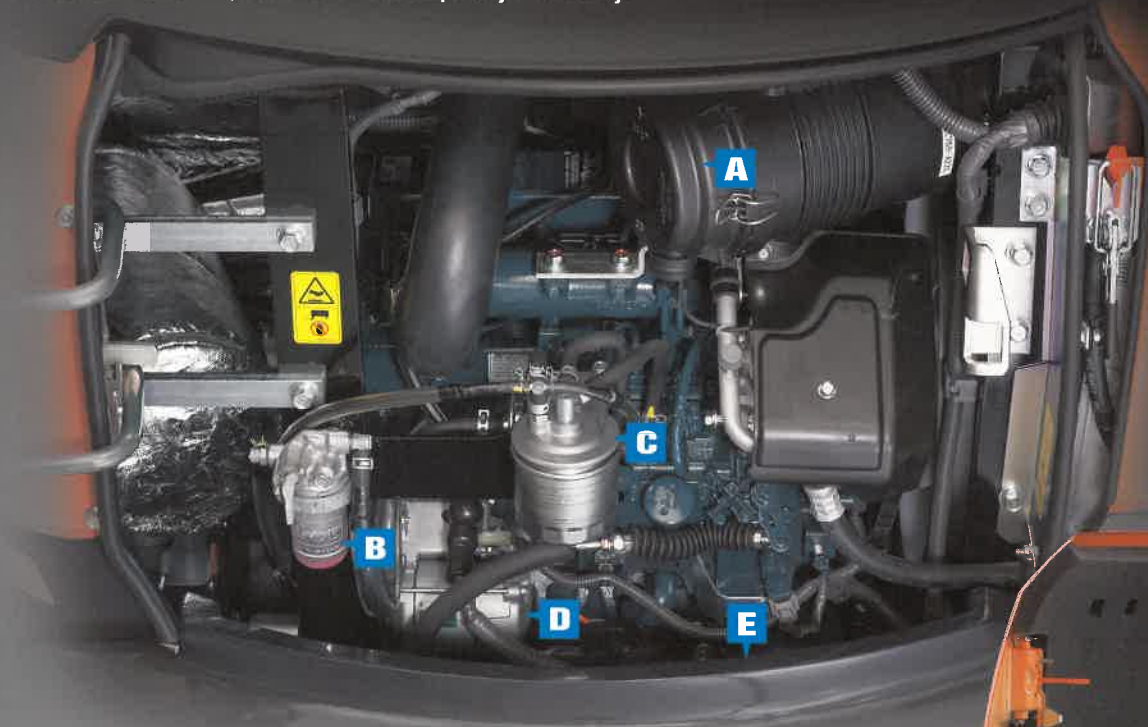
### **Travel Negative brake**

The travel negative brake locks the tracks to prevent inadvertent movement of the machine. This keeps the excavator secure during transport or while parked on slopes.



## Easy Maintenance

Kubota's attention to user-friendliness can even be found in KX033-4's engine layout. Primary engine components are consolidated onto one side for easier access so inspections and repairs can be made quickly and easily.



**A. Dual Element Air Cleaner**

**B. Water Separator**

**C. Fuel Filter**

**D. Starter Motor**

**E. Alternator**

# MAINTENANCE

Fully opening rear and right side hoods and easily accessible engine, control valves, and other components simplify maintenance and repair tasks to help keep your KX033-4 in peak operating condition.

### Steel Panels

Durable steel side panels open easily for quick inspection and routine maintenance. Positioning inside the counterweight's edge gives panels added protection against inadvertent damage.

### Accumulator

The accumulator helps to change hydraulically driven attachments by clearing residual pressure in the hydraulic lines. It also helps to lower front attachments to the ground if the engine is turned off. Both can be done without restarting the engine. Please see the operator's manual for more information.





# DIGITAL PANEL



**Standard Mode**

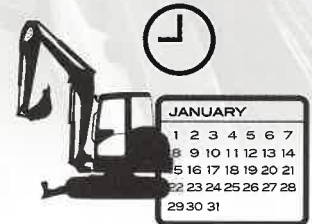
- A. Hour Meter**
- B. Coolant Temperature**
- C. Clock**
- D. Fuel Level**
- E. Engine RPM**



With easy access, simple settings, and easy-to-read indicators and alerts, you'll always be aware of the status of your excavator's critical functions. The wider, more visible display screen with easy push button operation puts convenience at the operator's fingertips. Part of Kubota's Intelligent Control System, the digital panel provides a wealth of user-friendly information to help keep the KX033-4 working safely and efficiently.

## Operation History Record

Operation history is automatically recorded on the KX033-4. You can trace back up to 90 days of the machine's usage dates by simply checking the built-in calendar.



**Service Mode**



**Warning Mode**



**Operation History Record**



**Max. Oil Flow Setting**

## Convenient Pre-installed Attachment Icons



AUX (Standard)



Tilt Bucket



Breaker



Clamshell



Auger



Grapple



Rotary Grapple



Brush Cutter

# KX033-4 OPTIONS

## STANDARD EQUIPMENT

### Safety system

- Engine start safety system
- Travel motor with disc brake
- Swivel motor with disc brake
- All hydraulic control

### Working equipment

- Auxiliary hydraulic circuit 1 with proportional control on right control lever
- 2 working lights on cab and 1 light on the boom
- Dozer blade with float function
- Thumb bracket and relief valve

### Operator's Space

- ROPS/OPG (TOP Guard, Level I) canopy
- Weight-adjustable full suspension seat
- Retractable seat belt
- Hydraulic pilot control levers with wrist rests
- Travel levers with foot pedals
- Two pattern selection system
- Digital panel with diagnosis function
- 12V power source
- Cup holder
- Horn

### Engine/Fuel system

- Double element air filter
- Auto idling system
- Water separator with drain cock

### Undercarriage

- 11.8" (300mm) rubber track
- 1 × upper track roller
- 5 double-flange track rollers on each side
- 2-speed travel switch on dozer lever
- 2-speed travel with auto-shift

### Hydraulic system

- Pressure accumulator
- Hydraulic pressure checking ports
- Straight travel circuit
- Third line hydraulic return
- 2 variable pumps and 1 gear pump
- Adjustable maximum oil flow on auxiliary hydraulic circuits 1
- Auxiliary switch (AUX1) on right control lever

### Others

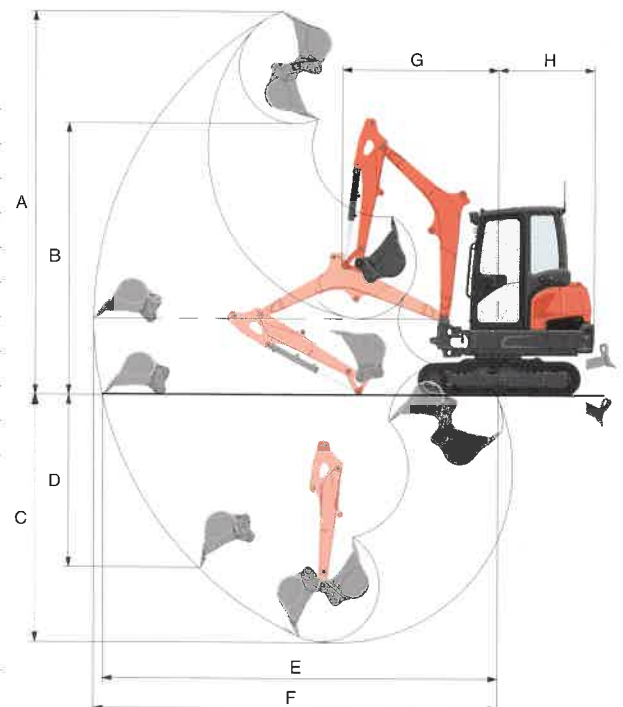
- Tool box
- Grease gun holder

## OPTIONAL EQUIPMENT

- Cab with A/C
- Canopy lights
- Rear working lights
- Beacon lights
- Angle blade with float function and BOE
- Travel alarm
- Spark arrest muffler

## WORKING RANGE

Model			KX033-4	
A	Max. digging height	ft. in. (mm)	16'4"(4980)	
B	Max. dumping height	ft. in. (mm)	11'7"(3530)	
C	Max. digging depth	ft. in. (mm)	10'6"(3210)	
D	Max. vertical digging depth	ft. in. (mm)	7'4"(2235)	
E	Max. digging radius at ground	ft. in. (mm)	16'10"(5120)	
F	Max. digging radius	ft. in. (mm)	17'2"(5230)	
G	Min. turning radius	W/o swing	ft. in. (mm)	6'7"(2020)
		W swing	ft. in. (mm)	4'11"(1510)
H	Min. tail turning radius	ft. in. (mm)	4'1"(1250)	

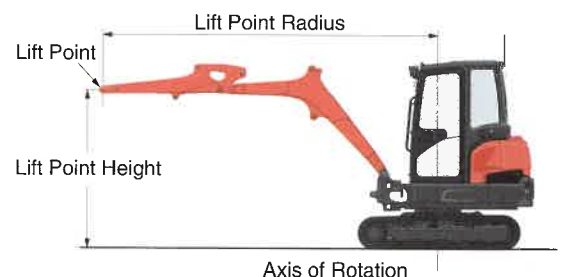


## LIFTING CAPACITY

Canopy rubber

LIFT POINT HEIGHT (ft)	LIFTING CAPACITY OVER-FRONT BLADE DOWN unit=1000 lbs			LIFTING CAPACITY OVER-SIDE unit=1000 lbs			
	LIFT POINT RADIUS (ft)			LIFT POINT RADIUS (ft)			
	10	14	MAX	10	14	MAX	
GL	6	1.37	1.23	1.23	1.37	0.89	0.84
	4	1.66	1.29	1.27	1.42	0.87	0.81
	2	1.92	1.36	1.30	1.38	0.86	0.81
GL	0	2.10	1.38	1.34	1.35	0.86	0.83

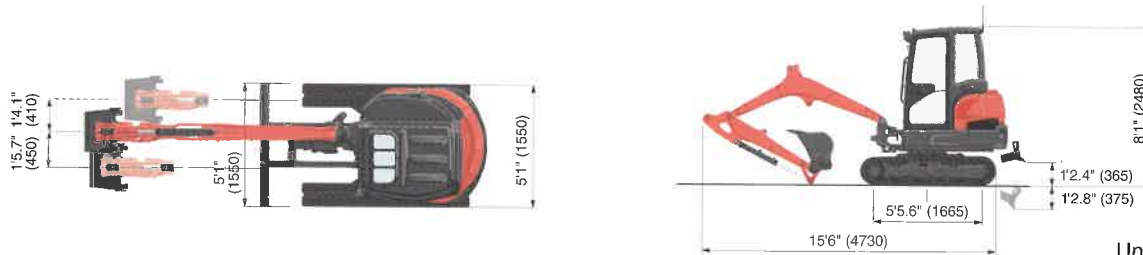
Machine with ROPS canopy and rubber crawler, without bucket



# SPECIFICATIONS

Model		KX033-4		KX033-4 Angle Blade	
Type of ROPS / OPG (TOP Guard, Level I)		Canopy / Cab			
Type of tracks		Rubber / Steel			
Engine	Model	Kubota D1703M-DI-E4			
	Output (SAE J1995 gross)	HP (kW) / rpm	24.8 (18.5) / 2200		
	Output (SAE J1349 net)	HP (kW) / rpm	23.2 (17.3) / 2200		
	Displacement	cu. in. (cc)	100.5 (1647)		
Dimensions	Overall length	ft. in. (mm)	15'6" (4730)		
	Overall height	ft. in. (mm)	8'1" (2480) / 8'1" (2470)		
	Overall width	ft. in. (mm)	5'1" (1550)		
	Min. ground clearance	in. (mm)	11.4 (290)		
	Boom offset	Right / Left	ft. in. (mm)	1'4.1" (410) / 1'5.7" (450)	
	Blade lift	Upper / Low	ft. in. (mm)	1'2.4" (365) / 1'2.8" (375)	
Hydraulic system	Pump capacity	GPM (ℓ/min)	10.5 (39.6) x 2 / 5.5 (20.9) x 1		
	Auxiliary hydraulic flow	GPM (ℓ/min)	15.8 (60)		
	Max. breakout force	Bucket / Arm	lbs. (kgf)	8138 (3694) / 3867 (1756)	
Drive system	Travel speed	Low / High	mph (km/h)	1.9 (3.0) / 2.9 (4.6)	
	Max. traction force	Low speed	lbs. (kgf)	6091 (2763)	
	Tumbler distance		ft. in. (mm)	5'5.6" (1665)	
	Crawler length		ft. in. (mm)	6'10.6" (2100)	
	Shoe width	Rubber / Steel	in. (mm)	11.8 (300)	
	Ground contact pressure	Canopy Rubber / Steel	psi (kgf/cm <sup>2</sup> )	4.365 (0.307) / 4.482 (0.315)	4.583 (0.322) / 4.700 (0.331)
	Cab Rubber / Steel	psi (kgf/cm <sup>2</sup> )	4.559 (0.321) / 4.676 (0.329)	4.776 (0.336) / 4.894 (0.344)	
Swing system	Unit swing speed	rpm	8.9		
	Boom swing angle	Left / Right	degree	70 / 48	
Blade	Dimensions	Width	ft. in. (mm)	5'1" (1550)	
		Height	ft. in. (mm)	1'1.5" (345)	1'3.2" (385)
	Max. lift above ground	in. (mm)	14.4 (365)	15.9 (405)	
	Max. drop below ground	in. (mm)	14.8 (375)	18.9 (480)	
	Angle	Left / Right	degree	-	25 / 25
Hydraulic oil (Reservoir / System)		gal (ℓ)	11.8 (44.6) / 16.1 (61)		
Fuel reservoir		gal (ℓ)	12.4 (46.9)		
Operating weight (Including operator's weight @ 165 lbs.)	Canopy Rubber / Steel	lbs. (kgf)	7420 (3365) / 7616 (3454)	7781 (3529) / 7978 (3618)	
	Cab Rubber / Steel	lbs. (kgf)	7742 (3511) / 7938 (3600)	8104 (3675) / 8300 (3764)	

# DIMENSIONS



Unit: ft. in. (mm)

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## KUBOTA TRACTOR CORPORATION

Kubota Tractor Corporation, 1000 Kubota Drive, Grapevine, TX 76051 Tel (817) 756-1171  
 Western Division: 1175 S. Guild Ave., Lodi, CA 95240 Tel (209) 334-9910  
 Central Division: 14855 FAA Boulevard, Fort Worth, TX 76155 Tel (817) 571-0900  
 Northern Division: 6300 at One Kubota Way, Groveport, OH 43125 Tel (614) 835-1100  
 Southeast Division: 1025 Northbrook Parkway, Suwanee, GA 30024 Tel (770) 995-8855

Visit our web site at: [www.kubota.com](http://www.kubota.com)

