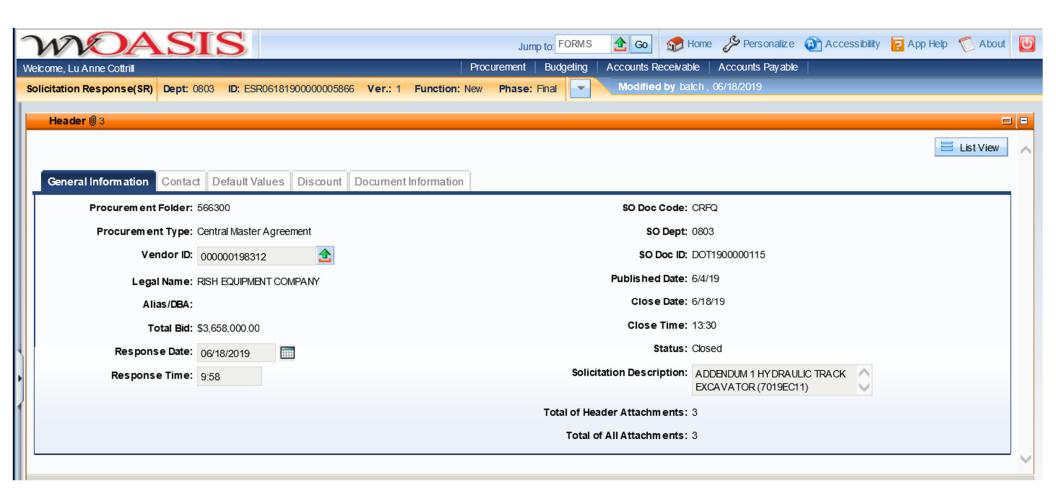


2019 Washington Street, East Charleston, WV 25305 Telephone: 304-558-2306 General Fax: 304-558-6026

Bid Fax: 304-558-3970

The following documentation is an electronically-submitted vendor response to an advertised solicitation from the *West Virginia Purchasing Bulletin* within the Vendor Self-Service portal at *wvOASIS.gov*. As part of the State of West Virginia's procurement process, and to maintain the transparency of the bid-opening process, this documentation submitted online is publicly posted by the West Virginia Purchasing Division at *WVPurchasing.gov* with any other vendor responses to this solicitation submitted to the Purchasing Division in hard copy format.





# State of West Virginia Solicitation Response

Proc Folder: 566300

Solicitation Description: ADDENDUM 1 HYDRAULIC TRACK EXCAVATOR (7019EC11)

Proc Type: Central Master Agreement

Date issued Solic	citation Closes	Solicitation	Response	Version
	9-06-18 80:00	SR	0803 ESR06181900000005866	1

VENDOR

000000198312

RISH EQUIPMENT COMPANY

Solicitation Number: CRFQ 0803 DOT1900000115

**Total Bid :** \$3,658,000.00 **Response Date**: 2019-06-18 **Response Time**: 09:58:30

Comments:

FOR INFORMATION CONTACT THE BUYER

Crystal G Hustead (304) 558-2402 crystal.g.hustead@wv.gov

Signature on File FEIN # DATE

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

Page: 1 FORM ID: WV-PRC-SR-001

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Ln Total Or Contract Amount
1	HYDRAULIC TRACK EXCAVATOR	20.00000	EA	\$182,900.000000	\$3,658,000.00

Comm Code	Manufacturer	Specification	Model #	
22101526				
Extended Descrip	otion : HYDRAULIC TRA	CK EXCAVATOR		



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

## State of West Virginia **Request for Quotation** 13 - Equipment

Proc Folder: 566300

Doc Description: HYDRAULIC TRACK EXCAVATOR (7019EC11)

Pre	Proc Type: Central Master Agreement					
Date issued	Solicitation Closes	Solicitati	on No	Version		
2019-05-08	2019-06-18 13:30:00	CRFQ	0803 DOT1900000115	1		

**BID CLERK** 

**DEPARTMENT OF ADMINISTRATION** 

**PURCHASING DIVISION** 

2019 WASHINGTON ST E

CHARLESTON

W

25305

US

VENDOR TO THE REPORT OF THE PROPERTY OF THE PR Vendor Name, Address and Telephone Number: Rish Equipment Co. 100 Heliport Loop Bridgeport, WV 26330 304-842-3511

FOR INFORMATION CONTACT THE BUYER

Crystal Rink (304) 558-2402

crystal.g.rink@wv.gov

Signature X

54-1390608 FEIN#

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



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

## State of West Virginia **Request for Quotation** 13 - Equipment

Proc Folder: 566300

Doc Description: HYDRAULIC TRACK EXCAVATOR (7019EC11)

Pre	Proc Type: Central Master Agreement					
Date issued	Solicitation Closes	Solicitati	on No	Version		
2019-05-08	2019-06-18 13:30:00	CRFQ	0803 DOT1900000115	1		

**BID CLERK** 

**DEPARTMENT OF ADMINISTRATION** 

**PURCHASING DIVISION** 

2019 WASHINGTON ST E

CHARLESTON

W

25305

US

VENDOR TO THE REPORT OF THE PROPERTY OF THE PR Vendor Name, Address and Telephone Number: Rish Equipment Co. 100 Heliport Loop Bridgeport, WV 26330 304-842-3511

FOR INFORMATION CONTACT THE BUYER

Crystal Rink (304) 558-2402

crystal.g.rink@wv.gov

Signature X

54-1390608 FEIN#

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

# ADDITIONAL

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH AN OPEN-END CONTRACT FOR A HYDRAULIC TRACK EXCAVATOR PER THE ATTACHED DOCUMENTS.

INVERS	The state of the s	I A MERINA TORPONO CONTRACTOR	
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT		DIVISION OF HIGHWAYS EQUIPMENT DIVISION	
83 BRUSHY ROAD CROS	SING, PO BOX 610	83 BRUSHY FORK RD CRO	OSSING
BUCKHANNON	WV26201	BUCKHANNON	WV 26201
us		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	HYDRAULIC TRACK EXCAVATOR	20.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
22101526				

#### **Extended Description:**

HYDRAULIC TRACK EXCAVATOR

SCHEOUE		
Line	<u>Event</u>	Event Date
1	MANDATORY PRE-BID MEETING	2019-05-29 /
2	VENDOR QUESTION DEADLINE	2019-06-03

# ADDITIONAL

THE STATE OF WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WEST VIRGINIA DIVISION OF HIGHWAYS, IS SOLICITING BIDS TO ESTABLISH AN OPEN-END CONTRACT FOR A HYDRAULIC TRACK EXCAVATOR PER THE ATTACHED DOCUMENTS.

INVERS	The state of the s	I A MERINA TORPONO CONTRACTOR	
DIVISION OF HIGHWAYS EQUIPMENT DIVISION RT		DIVISION OF HIGHWAYS EQUIPMENT DIVISION	
83 BRUSHY ROAD CROS	SING, PO BOX 610	83 BRUSHY FORK RD CRO	OSSING
BUCKHANNON	WV26201	BUCKHANNON	WV 26201
us		US	

Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	HYDRAULIC TRACK EXCAVATOR	20.00000	EA		

Comm Code	Manufacturer	Specification	Model #	
22101526				

#### **Extended Description:**

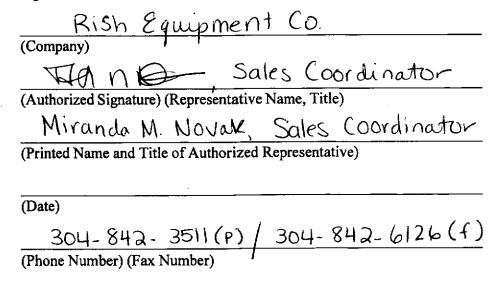
HYDRAULIC TRACK EXCAVATOR

SCIEOU -					
Line	<u>Event</u>	Event Date			
1	MANDATORY PRE-BID MEETING	2019-05-291			
2	VENDOR QUESTION DEADLINE	2019-06-03			

**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.

Miranda M. Novak, Sales Coordinator
(Name, Title) Miranda M Novak Sales Coordinator
(Printed Name and Title)  100 Heliport Loop Bridgeport, WV 2633
(Address) 304-842-3511(P)/ 304-842-6126(f
(Phone Number) / (Fax Number)  MNOVAK @ NISh. 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.



# ADDENDUM ACKNOWLEDGEMENT FORM SOLICITATION NO.: CRFQ DOT1900000115

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)	
Addendum No. 2 Addendum No. 3 Addendum No. 4 Adde	endum No. 6 endum No. 7 endum No. 8 endum No. 9 endum No. 10
I understand that failure to confirm the receipt of adder I further understand that any verbal representation mad discussion held between Vendor's representatives and the information issued in writing and added to the spec- binding.	le or assumed to be made during any oral any state personnel is not binding. Only
Rish Equipment Co.	
Company	
Afon no	
Authorized Signature	
6/17/19	
Date	
NOTE: This addendum acknowledgement should be s	ubmitted with the bid to expedite

document processing.

# REQUEST FOR QUOTATION CRFO DOT1900000115

# (WVDOH CLASS 310) HYDRAULIC TRACK EXCAVATOR-7019EC11

## **SPECIFICATIONS**

- 1. PURPOSE AND SCOPE: The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Division of Highways, Department of Transportation to establish an open-end contract for Hydraulic Track Excavator.
- 2. **DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.
  - 2.1 "Contract Item" or "Contract Items" means the list of items identified in Section 3, Subsection 1 below.
  - 2.2 "Pricing Pages" means the schedule of prices, estimated order quantity, and totals contained in wvOASIS or attached hereto as Exhibit A, and used to evaluate the Solicitation responses.
  - 2.3 "Solicitation" means the official notice of an opportunity to supply the State with goods or services that is published by the Purchasing Division.
  - 2.4 "WVDOH" means West Virginia Division of Highways.
  - 2.5 "F" means Fahrenheit.
  - **2.6** "R.P.M." means revolutions per minute.
  - 2.7 "SAHR" means spring applied hydraulic release.
  - 2.8 "ROPS" means Roll- over protection structure
  - 3. GENERAL REQUIREMENTS:
    - 3.1 Contract Items and Mandatory Requirements: Vendor shall provide Agency with the Contract Items listed below on an open-end and continuing basis. Contract Items must meet or exceed the mandatory requirements as shown below.
      - 3.1.1 Hydraulic Track Excavator with attachments.
        - 3.1.1.1 Operating weight shall be minimum 33,500 pounds including fuel, thumb, and bucket and blade.

# REQUEST FOR QUOTATION CRFQ DOT1900000115

## (WVDOH CLASS 310) HYDRAULIC TRACK EXCAVATOR-7019EC11

3.1.1.2 The unit specified herein and offered shall be manufactured on or after January 1, 2020 and will be clearly identified and marked with date of manufacture.

## **3.1.2** Engine:

- 3.1.2.1 Engine shall be 90 horsepower minimum; turbocharged diesel Tier 4 Final and shall have a pressurized liquid cooling system with thermostat, filled with manufacturers extended life permanent type anti-freeze that provides protection to at least -30 degrees F.
  - 3.1.2.1.1 Engine shall include the following characteristics:
    - A. Fuel/Water separator ~
    - B. Filter in fuel line \( \simeq \)
    - C. Alternator 50 amp minimum ~ 60 Amp
    - D. Electric fuel priming pump
    - E. Engine Block heater, 1500 watt minimum i available by engine manufacturer.

# 3.1.3 Hydraulic System:

- 3.1.3.1 Shall have hydraulic system to maintain safe oil temperature within manufacturers recommended operation range during continuous operation under maximum working combinations.
- 3.1.3.2 Boom length shall be minimum 15 feet and shall be controlled by two (2) hydraulic cylinders minimum.
- 3.1.3.3 Arm length shall be minimum 8 feet and shall be controlled by one (1) hydraulic cylinder and must have 2-√ way hydraulic flow at minimum. It shall include a shut off valve at end of piping.
- 3.1.3.4 Unit shall be equipped with a hydraulic thumb minimum of 18 inches x 46 inches.
- 3.1.3.5 Tine thickness of thumb shall be 1 inch minimum with a pin diameter of 2 inches minimum and a minimum of four (4) tines.

# REQUEST FOR QUOTATION CRFQ DOT1900000115

# (WVDOH CLASS 310) HYDRAULIC TRACK EXCAVATOR-7019EC11

# S KKBIN NIKI

- 3.1.3.6 Bucket shall be 0.50 cubic yard capacity minimum, shall have teeth and side cutters and controlled by one (1) hydraulic cylinder.
- 3.1.3.7 Drive shall be hydrostatic design with independent track control.
- Shall have wet multiple disk brakes that automatically 3.1.3.8 release while propelling and apply when stationary.
- 3.1.3.9 Unit must swing 360° degrees.
- 3.1.3.10 Swing speed shall be 10 R.P.M. minimum
- 3.1.3.11 Swing brake shall be SAHR for safety.
- 3.1.3.12 Unit shall have multi-function auxiliary hydraulics with electric pressure control, settable from in cab monitor allowing use of multiple attachments.

# 3.1.4 Undercarriage:

- A. Sealed type track

  B. Track guides to prevent track misalignment?

  C. Track adjustment shall be of hydraulic design

  D. Manufacturer's triple grouser shoes miwidth 23-inches.

  E. Track length mire.

  Rell. 3.1.4.1 Undercarriage frame shall be manufacturers standard for model bid, and shall include:

  - F. Belly pan guard.
  - G. Shall have double track chain guides.

## 3.1.5 Cab:

- 3.1.5.1 Cab shall be ROPS certified.  $\nu$
- 3.1.5.2 Cab shall be all weather steel isolation mounted
- 3.1.5.3 Unit shall have air-suspension) seat cloth, (heated seat with adjustable armrest with seatbelt.

3.1.5.4	Cab shall be equipped with manufacturers' heater and air
	conditioning system.

- 3.1.5.5 Cab shall be equipped with front windshield wiper and washer, intermittent features.
- 3.1.5.6 Manufacturer's vandalism protection package shall be provided.

  The vandalism protection package shall include locking cab
  doors, locking compartments for engine and hydraulic
  components, locking fuel and radiator access and electrical cutoff switch. All locks except master switch shall be keyed alike.
- 3.1.5.7 The following shall be included for cab area:
  - A. Interior cab light  $\checkmark$
  - B. Work lights at boom and on cab for night shift operations.

C. Tinted safety glass at all locations

D. AM and FM radio with Bluetooth and antenna.

E. Rear and Right-side view camera/monitor, 7-inch minimum color LCD display monitor with indicators.

F. Sun visor∨

add-it

3.1.6 Blade

3.1.6.1 Blade dimensions shall be standard size for model excavator bid.

# 3.1.7 Tilting Coupler/Swivel

3.1.7.1 Unit shall include a tilting coupler. Helac! Geith?

**3.1.7.2** Total tilt range 134-degrees minimum.

3.1.7.3 Shall allow for use of OEM bucket.

3.1.7.4 Shall include integral quick coupler.

# 3.1.7.5 Swivel shall be installed when delivered

## 3.1.8 Finish Bucket

3.1.9 Unit shall include a 48-inch minimum finish bucket with a minimum capacity of .60 cubic yard with fixed cutting edge with bucket pins.

#### 3.1.9 Paint:

3.1.9.1 Unit shall be painted manufacturers standard color.

#### 3.2 Miscellaneous:

full coding

### 3.2.1 Vendor Responsibility

- 3.2.1.1 The vendor shall be responsible to furnish a Hydraulic Track Excavator that is properly engineered and that confirms to all and any laws governing such equipment.
- 3.2.1.2 Unspecified Accessories & Features: All parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, must be furnished with each unit and required to conform to strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry.
- 3.2.1.3 All parts and accessories advertised and regularly supplied as standard shall be included, except those which would represent duplication of these specified and except those which, by specification, are not to be furnished.
- 3.2.1.4 All standard safety features required by Federal and State Law, shall be included.

3.2.1.5 Inspection: WVDOH requires unit shall have a West Virginia
State inspection sticker upon delivery.

**3.2.1.6** Unit shall be delivered: to WVDOH with all manufacturers recommended safety related decals and safety features intact.

## 3.2.2 Representative Unit for Test:

3.2.2.1 The successful vendor must (if specified) provide the DOH one (1) completed represented unit to be observed and evaluated on each order to insure compliance with specification. If requested, the time period for testing and evaluation shall be seven (7) working days following receipt of the unit. DOH will incur no obligation for deterioration of surfaces, finishes, seals, and mechanical or electrical parts on the unit resulting from operation and testing within the limits of these specifications; nor will DOH incur obligation for damage to the unit resulting from failure to meet specifications when due care and attention is given by DOH and testing is done within the limits of these specifications. Failure of the pilot unit to satisfactorily meet specifications as bid may be cause for cancellation of the purchase order and return of the delivered unit along with all associated equipment to the vendor at the vendor's expense.

# 3.2.3 Operating and Service Manuals and Parts Lists:

3.2.3.1 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; USB storage drive is preferred in lieu of parts manuals. Manuals and USB storage drive shall be delivered upon completion of delivery of total units. Failure to do so will delay payment.

# 3.2.4 Training:

3.2.4.1 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, trouble- shooting 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.

# 3.2.5 Preventative Maintenance & Operator Procedures:

3.2.5.1 Manufacturers and/or dealers will be required to submit to the Equipment Division, in addition to the operating and service manuals, booklets and pamphlets explaining the Preventative Maintenance and Operator Procedures to be used by the operators of this equipment, and must include such things as daily prestart inspection procedure, service schedule, and routine maintenance required, safety precautions, etc. The successful vendor shall furnish all training aids; i.e. videos, projectors as required in conducting the training.

# 3.2.6 Warranty and Service Policy:

3.2.6.1 The bid shall include a breakdown of the complete manufacturer's warranty per section. The unit must be accompanied upon delivery by the unit's manufacturers executed warranty and service policy.

### 4. CONTRACT AWARD:

- 4.1 Contract Award: The Contract is intended to provide Agencies with a purchase price on all Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest overall total cost as shown on the Pricing Pages.
- 4.2 Pricing Pages: Vendor should complete the Pricing Pages (Exhibit A) by completing the Year, Make, Model, and inserting quoted unit price. Vendor should take estimated Quantity and multiply by unit price to get grand total.

Vendor should complete the pricing pages in their entirety as failure to do so may result in Vendor's bids being disqualified.

The Pricing Page contains a list of the Contract Items and estimated purchase volume. The estimated purchase volume for each item represents the approximate volume of anticipated purchases only. No future use of the Contract or any individual item is guaranteed or implied.

Vendor should electronically enter the information into the Pricing Pages through wvOASIS, if available, or as an electronic document. In most cases, the Vendor can request an electronic copy of the Pricing Pages for bid purposes by sending an email request to the following address: Crystal.G.Rink@wv.gov.

#### 5. ORDERING AND PAYMENT:

- Ordering: Vendor shall accept orders by regular mail, facsimile, e-mail, or any other written forms of communication. Vendor may, but is not required to, accept on-line orders through a secure internet ordering portal/website. If Vendor has the ability to accept online orders, it should include in its response a brief description of how Agencies may utilize the on-line ordering system. Vendor shall ensure that its on-line ordering system is properly secured prior to processing Agency orders on-line.
- 5.2 Payment: Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia. Delivery PRION bolone

6. DELIVERY AND RETURN:

- 6.1 Delivery Time: A completed pilot model for inspection must be provided within 120 working day(s) after receipt of the pilot model order, by the successful vendor. Vendor shall deliver standard orders within 150 working days after orders are received Working day is defined as any week day, Monday thru Friday, excluding Federal and State Holidays. Vendor shall ship all orders until a minimum delivery quantity is met.
- 6.2 Late Delivery: The Agency placing the order under this Contract must be notified in writing if orders will be delayed for any reason. Any delay in delivery that could cause harm to an Agency will be grounds for cancellation of the delayed order, and/or obtaining the items ordered from a third party.

Any Agency seeking to obtain items from a third party under this provision must first

obtain approval of the Purchasing Division.

- 6.3 Delivery Payment/Risk of Loss: Standard order delivery shall be F.O.B. destination to the Agency's location. Vendor shall include the cost of standard order delivery charges in its bid pricing/discount and is not permitted to charge the Agency separately for such delivery.
- 6.4 Condition of Unit(s) Upon Delivery: All units must arrive at the prescribed delivery point having been completely pre-serviced with oil, lubricants, and coolant. All prescribed precautions pertaining to first operations and break-in of the unit are to be posted conspicuously on the unit for ready observance by the operator.
- 6.5 Delivery Point: Delivery point of the completed representative unit will be the WVDOH, Equipment Division, 83 Brushy Fork Crossing, Buckhannon, WV 26201.

### 7. VENDOR DEFAULT:

- 7.1 The following shall be considered a vendor default under this Contract.
  - **7.1.1** Failure to provide Contract Items in accordance with the requirements contained herein.
  - 7.1.2 Failure to comply with other specifications and requirements contained herein.
  - 7.1.3 Failure to comply with any laws, rules, and ordinances applicable to the Contract Services provided under this Contract.
  - 7.1.4 Failure to remedy deficient performance upon request.
  - 7.2 The following remedy shall be available to Agency upon default.
    - 7.2.1 Immediate cancellation of the contract.
    - **7.2.2** Immediate cancellation of one or more release orders issued under this Contract.
    - 7.2.3 Any other remedies available in law or equity.

### 8. MISCELLANEOUS:

- 8.1 No Substitutions: Vendor shall supply only Contract Items submitted in response to RFQ unless a contract modification is approved in accordance with the provisions contained in this contract.
- 8.2 Reports: Vendor shall provide quarterly reports and annual summaries to the Agency showing the Agency's items purchased, quantities of items purchased, and total dollar value of the items purchased. Vendor shall also provide reports, upon request, showing the items purchased during the term of this Contract, the quantity purchased for each of those items, and the total value of purchases for each of those items. Failure to supply such reports may be grounds for cancellation of this Contract.
- 8.3 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: Miranda Novall
Telephone Number: 304-842-3511 x 6518
Fax Number: 304-842-6126
Email Address: mnovalarish com

Exhi	bit A					
		CRFQ DOT190000115				
			HYDRAU	LIC TRACK EXCAVATO	)R	
Item No.	Descriptio	n:	Make/Model & Year	Estimated Unit Quantity	Unit Price	Item Total Cost
1	One Complet Hydraulic Track I		2020 Kornatsu PC138USLC-11	20	\$ 182,900.00	\$ 3,658,000.00
Total Bid Cost					\$ 3,658,000. <sup>W</sup>	
Vendor Information						
Compar	ny Name: Ri	sh Ea	juipment Co.			
Contrac			M. Novak			
Address	s: 100 He	liport	T0010			
	Brilgeport, WV 26330					
Phone:	2011 0117 2511 V (518					
Fax:	Fax: 304-842-6126					
Email: Mnovak arish.com						
Signatu	Signature: Signature:					



# EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY SUCCESSFUL BIDDER OR MANUFACTURER'S TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY TO THE WVDOH.

DESCRIPT	ION:	<u>.</u>	MAI	Œ:		
MODEL:		YEAR:	R: PURCHASE AMOUNT		:	
ENGINE:	MAKE:	MODEL:		_ FUEL TYPE: _	<u> </u>	
	HORSEPOWER:					
	COOLING SYSTEM CAPACITY:					
BELTS:	DESCRIPTION:		PART NUMI	BERS:		
GVW:	AXLE CAPAC	ITY:FRONT:	· <del></del>		REAR:	
TIRES:	FRONT MAKE & SIZE:					
	REAR MAKE & SIZE:	<u> </u>		<del></del>		
DIMENSIO	ONS OF UNIT: LENGTH:		WIDTH:		LENGTH:	
VENDOR	CONTACT PERSON:			PHONE:	<u> </u>	
PARTS:						
DATTEDV	/ MAKE:	MODEL:		CCA:	CCA:	
TOP OR S	/ MAKE: IDE POST:	DIMENSIONS	: LENGTH	WIDTH	HEIGHT	
SPARK PI	LUGS OR FUEL INJECTORS MAKE:		PART #			
FUEL PU	LUGS OR FUEL INJECTORS MAKE:MP OR INJECTION PUMP MAKE:		MODEL:		. <u></u>	
ALTERNA	ATOR MAKE:		PART #:			
TURBO C	HARGER MAKE:		PART #:			
TRANS MAKE: MODI		EL:		AUTO/MANUA	L:	
HYDRAU	CMAKE: CHARGER MAKE: MAKE: MODITION LIC PUMP MAKE:		MODEL:			
FILTERS	MAKE PART NO.	LUBI	RICANT	MANUFACTI	URER TYPE	
OIL	·	ENG				
AIR INNER		TRANSMISSION				
AIR OUTER		POWER STEERING				
AIR OUTER  FUEL PRIMARY  FUEL SECONDARY		HYDRAULIC				
FUEL SECONDARY		DIFFERENTIALS				
COOLANT		BRAKE FLUID				
HYDRAU		GOOT 43177				
OTHER		OTH	OTHER			

# West Virginia Ethics Commission



# Disclosure of Interested Parties to Contracts

Pursuant to W. Va. Code § 6D-1-2, a state agency may not enter into a contract, or a series of related contracts, that has/have an actual or estimated value of \$1 million or more until the business entity submits to the contracting state agency a Disclosure of Interested Parties to the applicable contract. In addition, the business entity awarded a contract is obligated to submit a supplemental Disclosure of Interested Parties reflecting any new or differing interested parties to the contract within 30 days following the completion or termination of the applicable contract.

For purposes of complying with these requirements, the following definitions apply:

"Business entity" means any entity recognized by law through which business is conducted, including a sole proprietorship, partnership or corporation, but does not include publicly traded companies listed on a national or international stock exchange.

"Interested party" or "Interested parties" means:

- (1) A business entity performing work or service pursuant to, or in furtherance of, the applicable contract, including specifically sub-contractors;
- (2) the person(s) who have an ownership interest equal to or greater than 25% in the business entity performing work or service pursuant to, or in furtherance of, the applicable contract. (This subdivision does not apply to a publicly traded company); and
- (3) the person or business entity, if any, that served as a compensated broker or intermediary to actively facilitate the applicable contract or negotiated the terms of the applicable contract with the state agency. (This subdivision does not apply to persons or business entities performing legal services related to the negotiation or drafting of the applicable contract.)

"State agency" means a board, commission, office, department or other agency in the executive, judicial or legislative branch of state government, including publicly funded institutions of higher education: Provided, that for purposes of W. Va. Code § 6D-1-2, the West Virginia Investment Management Board shall not be deemed a state agency nor subject to the requirements of that provision.

The contracting business entity must complete this form and submit it to the contracting state agency prior to contract award and to complete another form within 30 days of contract completion or termination.

This form was created by the State of West Virginia Ethics Commission, 210 Brooks Street, Suite 300, Charleston, WV 25301-1804. Telephone: (304)558-0664; fax: (304)558-2169; e-mail: ethics@wv.gov. website: www.ethics.wv.gov.

# West Virginia Ethics Commission Disclosure of Interested Parties to Contracts

(Required by W. Va. Code § 6D-1-2)

Name of Contracting Business Entity: RISh Escur	Address:	100 Heliport Loop			
Name of Contracting Business Entity: Rish Equip	<del></del>	Bridgeport WV 26330			
Name of Authorized Agent: Miranda Novak		•			
Contract Number:	Contract Descrip	tion:			
Governmental agency awarding contract:					
☐ Check here if this is a Supplemental Disclosure					
List the Names of Interested Parties to the contract which a entity for each category below (attach additional pages if	re known or reason	ably anticipated by the contracting business			
1. Subcontractors or other entities performing work		ne Contract			
2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)  Light Check here if none, otherwise list entity/individual names below.					
3. Any person or entity that facilitated, or negotiat services related to the negotiation or drafting of the Check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation or drafting of the check here if none, otherwise list entity/individual related to the negotiation of the check here if none, otherwise list entity/individual related to the negotiation of the check here if none is not negotiated to the	ne applicable conti	the applicable contract (excluding legal ract)			
Signature: VIP N	Date Sign	ed: 6   18   19			
Notary Verification					
State of West Virginia	County of	tarrison			
entity listed above, being duly sworn, acknowledge that penalty of perjury.	the Disclosure here	authorized agent of the contracting business in is being made under oath and under the			
Taken, swom to and subscribed before me this	day of	June , 2019			
	Sharte	K. Portus			
To be completed by State Agency:  Date Received by State Agency:  Date submitted to Ethics Commission:  Governmental agency submitting Disclosure:		OFFICIAL SEAL  NOTARY PUBLIC  STATE OF WEST VIRGANIA  Shasta R. Parker PD Box 171 Salem, WY 29425  My Commission Explicit Action 2 2020 8 2018			

# 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, properly 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 exceed 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: Rish Equipment Co.	l ali c
Authorized Signature: 1000	Date: 6 18 19
State of West Virginia	
County of Harrison to-wit:	_
Taken, subscribed, and sworn to before me this 18th day of 1000	, 20 <u>\</u> 9.
My Commission expires October 23 , 2020.	
AFFIX SEAL HERE OFFICIAL SEAL NOTARY PUBLIC	Shaste & Parky
STATE OF WEST VIRGINIA Shaste R. Parker	Purchasing Affidavit (Revised 01/19/2018)



72.5 kW @ 2050 rpm

# PC138USLC-11

0.26-0.76 m<sup>3</sup>

Tier 4 Final Engine



15,682-17,032 kg

# **WALK-AROUND**



## **NET HORSEPOWER**

**97.2 HP @ 2050 rpm** 72.5 kW @ 2050 rpm

## **OPERATING WEIGHT**

34,563-37,547 ib 15,682-17,032 kg

## **BUCKET CAPACITY**

0.34-1.00 yd<sup>3</sup> 0.26-0.76 m<sup>3</sup>



# CONVENTIONAL PERFORMANCE IN A TIGHT TAIL BODY

Heavy counterweight mass provides equal or better lift capacity than most conventional excavators in the same size class.

Rounded cab profile with a sliding door, allows the cab to swing within the same swing radius as the counterweight for true tight tail performance.

A powerful Komatsu SAA4D95LE-7 engine provides a net output of 72.5 kW 97.2 HP. This engine is EPA Tier 4 Final emissions certified.

Variable Flow Turbocharger improves engine response and provides optimum air flow under all speed and load conditions.

Komatsu Diesel Oxidation Catalyst (KDOC) reduces particulate matter using passive regeneration over 98% of the time.

Selective Catalytic Reduction (SCR) reduces NOx and has easy to access components.

Komatsu Auto Idle Shutdown helps reduce nonproductive engine idle time and reduces operating costs.

Komatsu's Closed-center Load Sensing System (CLSS) provides quick response and smooth operation to maximize productivity.

**Enhanced working modes** are designed to match engine speed, pump delivery, and system pressure to the application.

Temperature controlled fan clutch helps improve fuel efficiency and lower sound levels.

#### Large LCD color monitor panel:

- 7" high resolution screen
- Provides "Ecology-Guidance" for fuel efficient operation
- · Enhanced attachment control

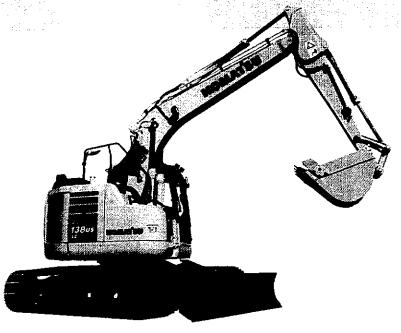
Aux jack and (2) 12V outlets

Rearview monitoring system (standard)

Equipment Management Monitoring System (EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

#### **Enhanced working environment**

- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)



Wide access service doors provide easy access for ground level maintenance.

Komatsu designed and manufactured components

New engine and hydraulic control technology improves operational efficiency and lowers fuel consumption by up to 4%.

**New quick return arm valve improves arm cylinder hydraulic flow for faster arm out speed and performance.** 

Handrails (standard) provides convenient access to the upper structure.

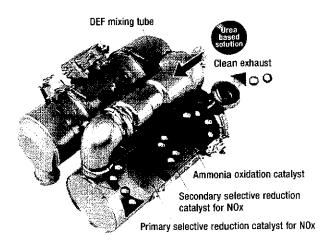
Battery disconnect switch allows a technician to disconnect the power supply before servicing the machine.

The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription-fee's throughout the life of the machine. Using the latest wireless technology, KOMTRAX® transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. KOMTRAX® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

# PERFORMANCE FEATURES

# KOMATSU NEW ENGINE TECHNOLOGIES Variable flow turbocharger SCR New Tier 4 Final Engine Komatsu Closed New regulations require the reduction of Crankcase Ventilation NOx emissions to one tenth or below (KCCV) from the preceding regulations. Komatsu has developed a new Selective Catalytic Reduction (SCR) device for use in the PC138USLC-11 and other models. KDOC Cooled EGA **Technologies Applied to New Engine** Heavy-duty aftertreatment system This new system combines a Komatsu Diesel Oxidation Catalyst (KDOC) and SCR. The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid

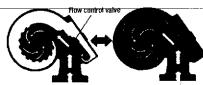
(DEF) at the proper rate, thereby decomposing NOx into non-toxic water (H<sub>2</sub>O) and nitrogen gas (N<sub>2</sub>).



#### Variable flow turbocharger

A variable flow turbocharger features simple and reliable technology that varies the intake air-flow. The Exhaust turbine speed is controlled by a flow control valve that optimizes air volume to the engine combustion chamber under all engine speed and load conditions. The result is cleaner exhaust

gas while maintaining power and performance.



# Heavy-duty cooled Exhaust Gas Recirculation (EGR) system

The system recirculates a portion of exhaust gas into air intake and lowers combustion temperatures to reduce NOx emissions. Furthermore, while EGR gas flow is increased, by incorporating a high-efficiency and compactly designed cooling system, the system achieves a dynamic reduction of NOx, while helping reduce fuel consumption.

#### Advanced Electronic control system

The electronic control system performs high-speed processing of all signals from sensors installed in the machine providing total control of equipment in all operating conditions of use. Engine condition information is displayed via an onboard network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

# High Pressure Common Rail (HPCR) fuel injection system

High pressure fuel injection with computerized control attains close to complete combustion reducing Particulate Matter (PM) emissions. While this technology is already used in current engines, the new system uses a higher-pressure injection, thereby reducing both PM emissions and fuel consumption at all engine load conditions.

#### Fuel consumption is reduced up to 4%

Fuel consumption is reduced up to 4% using a temperature controlled viscous fan clutch and improved engine and hydraulic system efficiencies.

**Fuel Consumption** 

Compared to the PC138USLC-10

# Reduced by up to 4%

Based on typical work pattern collected via KOMTRAX. The fuel consumption reduction may be less than the above value during actual work, depending on the application. The fuel consumption data is based on in-house test results.

#### Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The countdown to engine shutdown can be easily programmed from 5 to 60 minutes.

#### Efficient hydraulic system

The PC138USLC-11 uses a Closed-center Load Sensing System (CLSS) that improves fuel efficiency and provides quick response to the operator's demands. The control

system matches engine and hydraulic demand at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

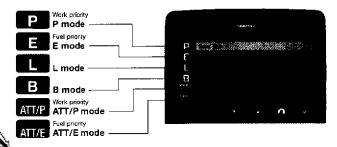
#### Viscous fan clutch

Reduces engine loads at lower operating temperatures.

#### Working Mode Selection

The PC138USLC-11 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC138USLC-11 features an attachment mode (ATT/E) that allows operators to run attachments while in Economy mode.

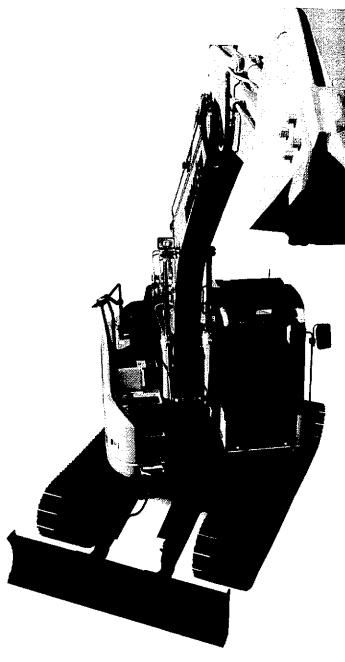
Working Mode	Application	Advantage
Р	Power mode	Maximum production/power     Fast cycle times
Ē	Economy mode	Good cycle times     Better fuel economy
L	Lifting mode	<ul> <li>Increases hydraulic pressure</li> </ul>
В	Breaker mode	Optimum engine rpm, hydraulic flow
ATT/P	Attachment Power mode	Optimum engine rpm, hydraulic flow, 2-way Power mode
ATT/E	Attachment Economy mode	Optimum engine rpm, hydraulic flow, 2-way Economy mode



## Arm quick return valve

When the arm is extended, the quick return valve directs additional oil through a second line directly back to tank which reduces back pressure. Reduces fuel consumption and improves efficiency.

# PERFORMANCE FEATURES



# Blade Ready

Every PC138USLC-11 is equipped for easy field installation of a wide 2590 mm 8'6" blade.



## **High Breakout Forces**

The PC138USLC-11 provides high breakout forces for operation in difficult digging conditions.

#### **Fine Controllability**

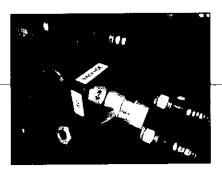
Proportional Pilot Controls (PPC) allow the operator finite control and feed back with minimal effort for comfort and efficiency.

#### **High Mobility**

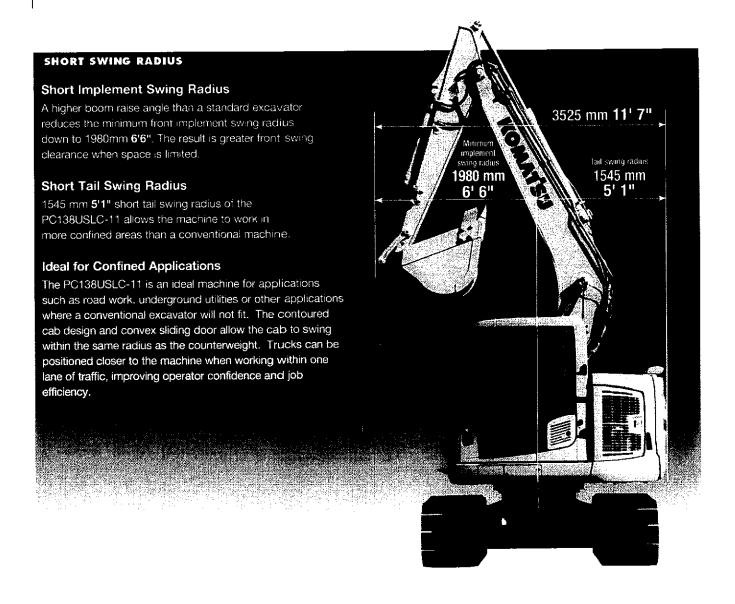
The PC138USLC-11 is equipped with two speed travel and automatic shift with a high drawbar pull for work in wet or muddy conditions and blade applications.

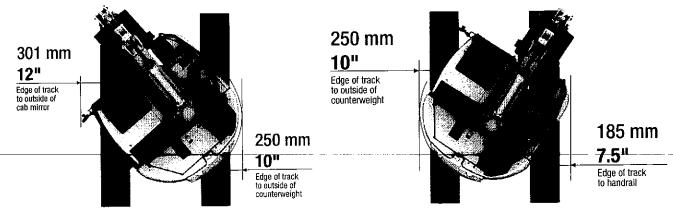
## Pattern Change Valve (Standard)

A pattern change valve is conveniently located at the front of the machine, making switching from excavator controls to backhoe controls quick and easy.



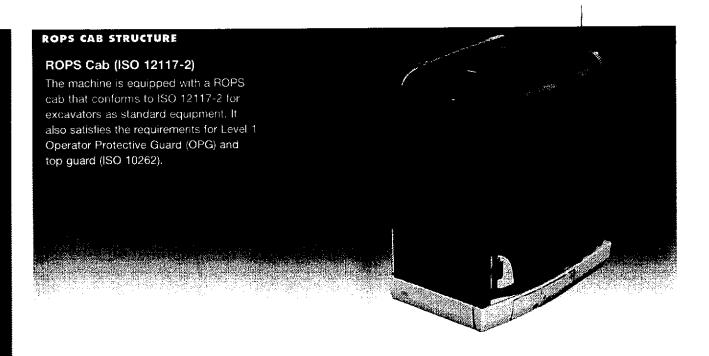
# **OPERATION FEATURES**





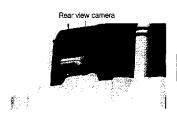
Shoe width is 600 mm 24"

# **OPERATION FEATURES**



#### **Rear View Monitoring System**

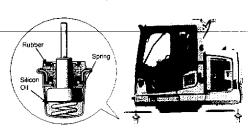
An updated rear view monitoring system display has a camera image that is continuously displayed together with the gauges and important vehicle information. This enables the operator to carry out work while easily checking the surrounding area.





## Low Vibration with Viscous Cab Mounts

The PC138USLC-11 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator's seat.



#### **General Features**

Lock lever

Seat belt, retractable

Tempered & tinted glass

Large mirrors

Slip-resistant plates

Thermal and fan guards

Pump/engine room partition

Travel alarm

Large cab entrance step

Handrails

Sliding door



Secondary engine shut down switch at base of seat to shutdown the engine.







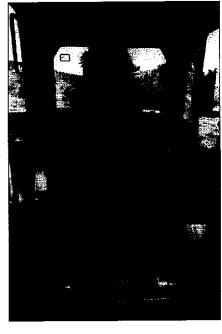
# **WORKING ENVIRONMENT**

#### **Comfortable Working Space**

## Large cab with wide front view and foot space

A large operator cab with rounded corner provides an overall cab size similar to a standard excavator cab even though this machine has an extra small swing radius. A sliding door enables easy access especially in confined work areas. Additional operator comfort is provided with a fully adjustable suspension seat.





#### **Automatic Air Conditioner**

The automatic air conditioner allows the operator to easily and precisely set the cab atmosphere using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.



# Auxiliary input jack

Connecting an auxiliary device such as an MP3 player to the auxiliary input enables the operator to hear the sound throughout the stereo speakers installed in the cab.



#### Low cab noise

## Standard Equipment

Automatic air conditioner (A/C)

Pull-up front window

Remote intermittent wiper with windshield washer



Cab light



Defroster (conforms to the ISO standard)



Windshield glass with excellent UV filtering



Cup holder



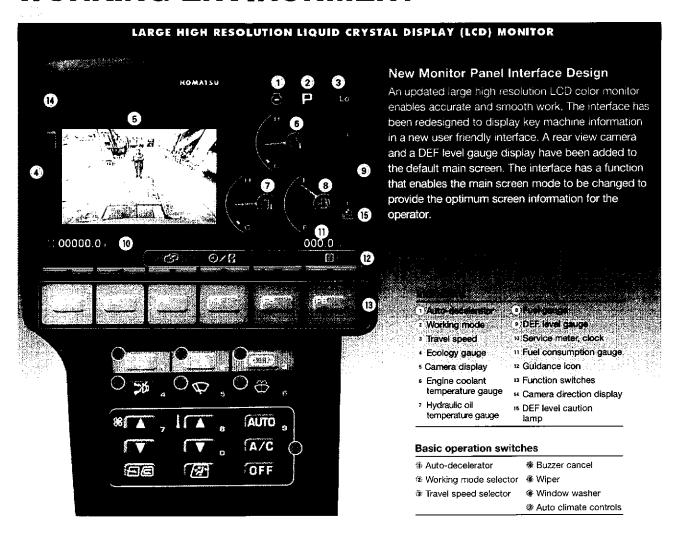
Literature box



Cigarette lighter & 12 V power supply

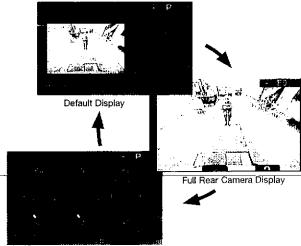


# WORKING ENVIRONMENT



#### Switchable display modes

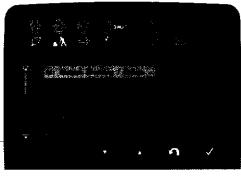
The updated monitor screen display mode can be easily switched by pressing the F3 key.



Full Gauge Display

#### Visual user menu

Pressing the F6 key on the main screen displays the user menu screen. The menus are grouped for each function, and use easy-to-understand icons which enable the machine to be operated easily.



TEnergy saving guidance 2-Machine settings

- 3 Aftertreatment device regeneration\* 4 SCR information
- 5 Maintenance 6 Monitor setting 7 Message check

\*Blank screen, does not apply to SAA4D95LE-7. The DOC is 100% passive regeneration.

#### **Operator Identification Function**

An operator identification (ID) code can be set for each

operator and used to manage operation information of individual machines using KOMTRAX data. Data sent from KOMTRAX can be used to analyze operation status by operator, application etc. as well as by machine.



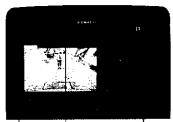
# Support Efficiency Improvement Ecology guidance

While the machine is operating, Ecology guidance information can be displayed on the monitor screen to provide fuel saving advice in real time.

### Ecology gauge & fuel consumption gauge

The monitor screen includes an Ecology gauge and a fuel

consumption gauge which is displayed continuously. The operator can set a target value.



Ecology gauge Fuel consumption gauge Ecology guidance

# Operation records, fuel consumption history, and Ecology guidance records

The Ecology guidance menu enables the operator to check the operation records, fuel consumption history and Ecology guidance records.



Ecology guidance record



Operation record



Fuel consumption history



### **MAINTENANCE FEATURES**

#### Standard high-efficiency fuel filter and fuel pre-filter with water separator

A high-efficiency fuel filter and a fuel pre-filter with water separator increase reliability. The fuel pre-filter is equipped with a priming pump.



High efficiency fuel filter

Fuel pre-filter (With water separator)

#### Easy access to engine oil filter, engine main fuel filter and fuel drain valve

The engine oil filter, engine main fuel filter and fuel drain valve are remote mounted to improve accessibility.







#### **Battery disconnect** switch

A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.



Long-life oil, filter



Engine oil & engine oil filter	every 500 hours
Hydraulic oil	every 5000 hours
Hydraulic oil filter	every 1000 hours



#### Fan belt auto-tensioner

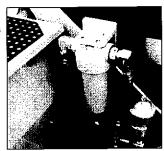
For maintenance free fan belt tension adjustment.



Hydraulic oil fitter (Ecology white plus element)

#### Attachment circuit filter

An easy access filter protects the hydraulic system from attachment contaminants (included with factory + 1 attachment piping).

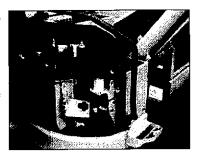


#### A/C filter

The A/C, cab air filter is serviced without the use of tools.

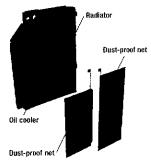
#### DEF tank and pump

Designed for ground level access, the DEF tank includes a sight glass gauge and the DEF pump and filter are conveniently located next to the DEF tank.



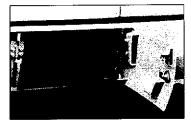
#### Side-by-side cooling

The radiator and oil cooler are side-by side modules which simplifies cleaning, removal and installation. The addition of screens help keep the cooler cores clean and free of debris.



#### Large tool box

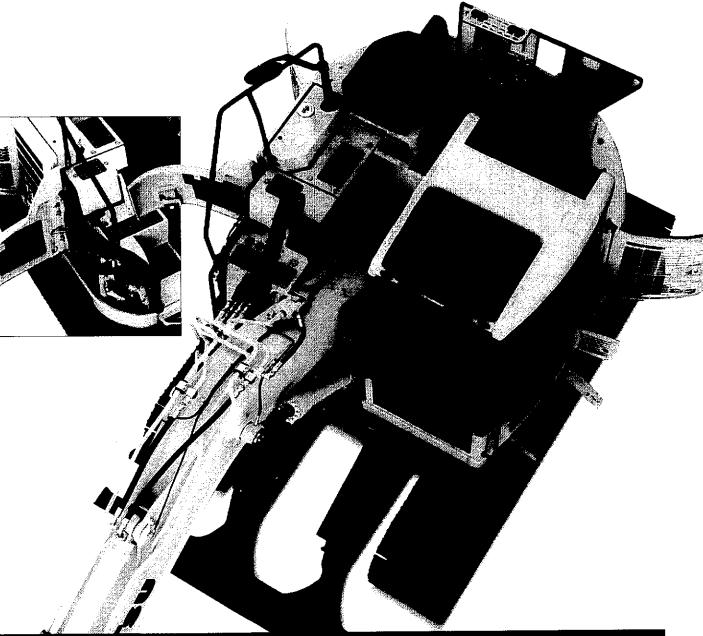
A tool box large enough for storing a grease gun is provided as standard.



### Easy-to-clean cab floor mat

The PC138USLC-11's surface grooves run parallel to the operator and has a flanged edge combined with drainage holes to allow water run off when cleaning the cab.





#### **Maintenance Information**

#### "Maintenance time caution lamp" display

When the remaining time to maintenance becomes less than 30 hours\* a maintenance time monitor

appears.
\* The settings can be changed to between 10 and 200 hours.





Maintenance screen

### Aftertreatment device automatic regeneration display

When performing automatic regeneration to clean any urea deposits in the

exhaust system, the monitor will display an action icon to the operator.

There is no interruption to the operation of the machine during this cycle.





Aftertreatment device regeneration screen

#### DEF level and refill timing

The DEF level gauge is displayed continuously on the right side of the monitor screen. In addition, when the

DEF level is low, DEF low level guidance messages appear as pop up displays to inform the operator.

The 2014 standards for exhaust gases stipulates that when DEF level becomes low the engine must derate.



DEF level gauge



DEF low level guidance

# KOMATSU PARTS & SERVICE SUPPORT



#### **Program Includes:**

\*The PC138USLC-11 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

#### Planned Maintenance Intervals at:

500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes: Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

#### Benefits of Using Komatsu CARE

- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

#### Complimentary SCR System Maintenance

The PC138USLC-11 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 years or 9,000 hours whichever comes first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4,500 hours & 9,000 hours.

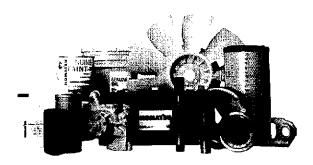
KOMATSU CARE PC138USLC-11				
Interval PM	500	1000	1500	2000
KOWA SAMPLING – (Engine, Hydraulics, Swing Circle, L & R Final Drives)	✓	1	✓	1
LUBRICATE MACHINE	1	✓	✓	✓
LUBRICATE SWING CIRCLE	✓_	$\checkmark$	$\checkmark$	✓
CHECK SWING PINION GREASE LEVEL AND ADD, WHEN NECESSARY	✓	✓	✓	✓
CHANGE ENGINE OIL	✓	1	$\checkmark$	1
REPLACE ENGINE OIL FILTER	✓	✓_	$\checkmark$	1
REPLACE FUEL PRE-FILTER	$\checkmark$	✓	✓	✓
REPLACE AC FRESH & RECIRC AIR FILTERS	✓	✓	<b>✓</b>	✓
CLEAN AIR CLEANER ELEMENT	✓	✓	✓	1
DRAIN SEDIMENT FROM FUEL TANK	✓	✓	✓	✓
COMPLETE 50 POINT INSPECTION FORM; LEAVE PINK COPY WITH CUSTOMER OR IN CAB	1	1	✓	1
RESET MONITOR PANEL MAINTENANCE COUNTER FOR APPROPRIATE ITEMS	<b>√</b>	✓	✓	✓
REPLACE HYDRAULIC TANK BREATHER ELEMENT	Ī	✓		✓_
REPLACE DEF TANK BREATHER ELEMENT		✓		1
CHANGE FINAL DRIVE OIL		1		1
CHECK OIL LEVEL IN PTO GEAR AND ADD, WHEN NECESSARY		✓		✓
REPLACE MAIN FUEL FILTER	Ţ <u></u>	1		<b>1</b>
REPLACE HYDRAULIC OIL FILTER ELEMENT		1		✓
CHANGE SWING MACHINERY OIL		✓		1
CLEAN HYDRAULIC TANK STRAINER				1
REPLACE KCCV FILTER ELEMENT				1
REPLACE DEF PUMP FILTER				1
FACTORY TRAINED TECHNICIAN LABOR	<b>√</b>	$\checkmark$	✓	$\checkmark$

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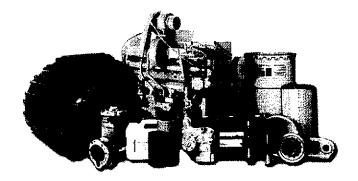
### Komatsu CARE® - Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs



#### Komatsu Parts Support

- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction



#### Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- · Proactively maintain your equipment
- Maximize availability and performance

- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

# KOMTRAX EQUIPMENT MONITORING



- KOMTRAX is Komatsu's remote equipment monitoring and management system
- KOMTRAX continuously monitors and records machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history lowering owning and operating cost



 KOMTRAX is standard equipment on all Komatsu construction products



- Knowing when machines are running or idling can help improve fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to know when maintenance is due and help you plan for future maintenance needs



- KOMTRAX data can be accessed virtually anywhere through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications



- Knowledge is power make informed decisions to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- Take control of your equipment
   any time, anywhere







**K@MTRAX Plus**<sup>®</sup>

For construction and compact equipment.

For production and mining class machines.

## **SPECIFICATIONS**



ModelKomatsu SAA4D95LE-7*
TypeWater-cooled, 4-cycle, direct injection
Aspiration Variable flow, turbocharged, air-to-air aftercooled
Number of cylinders 4
Bore
Stroke115 mm <b>4.53"</b>
Piston displacement3.26 ltr 199 in <sup>3</sup>
Horsepower:  SAE J1995
GovernorAll-speed control, electronic
+FGA T'e. A First sectorios sectifical

\*EPA Tier 4 Final emissions certified



system, closed-center system with load sensing valve and pressure compensated valve

Number of selectable working modes ......6

#### Main pump:

Tvpe	Variable capacity piston type
Pump forBoor	n, arm, bucket, swing, and travel circuits
Maximum flow	242 İtr/min 64 gal/min
	•

#### Hydraulic motors:

Travel	2 x piston motor with p	parking brake
Swing 1	x piston motor with swing h	nolding brake

#### Relief valve setting:

Travel circuit	34.8 MPa 355 kgf/cm <sup>2</sup> <b>5,050 psi</b> 34.8 MPa 355 kgf/cm <sup>2</sup> <b>5,050 psi</b>
Swing circuit	29.2 MPa 298 kgf/cm2 4,240 psi
Pilot circuit	3.2 MPa 33 kgf/cm <sup>2</sup> <b>470 psi</b>
4 A	040 Hulmin 64 mailmin

..... 242 ttr/min **64 gal/min** at 250 kgf/cm² **3,553 psi\*** Maximum Auxiliary Flow .....

#### Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom 2-105 mm x 1055 mm x 70 mm 4.1" x 41.5" x 2.76" Arm .... 1-110 mm x 1175 mm x 75 mm 4.3" x 46.3" x 2.95" Bucket.. 1-95 mm x 885 mm x 65 mm 3.7" x 34.8" x 2.56"



## DRIVES AND BRAKES

Steering control	
Maximum drawbar pull	
Gradeability	70%, 35°
Maximum travel speed: High (Auto-shift) Low	5.1 km/h <b>3.2 mph</b> 2.9 km/h <b>1.8 mph</b>
Service brake	
Parking brake	Wet, multiple-disc

\* Auxiliary flow is adjustable through the monitor.



#### SWING SYSTEM

Driven by	Hydraulic motor
Swing reduction	Planetary gear
Swing circle lubrication	
Service brake	
Swing lock	Wet, multiple-disc brake
Swing speed	
Swing torque	2991 kg.m <b>21,627 ft lbs</b>



#### UNDERCARRIAGE

Center frame	X-frame leg
Track frame	
Track type	
Track adjuster	Hydrautic
Number of shoes (each side)	
Number of carrier rollers (each side)	
Number of track rollers (each side)	
Trained of track tollers (each eles)	***************************************



#### SOUND PERFORMANCE

Exterior – ISO 6395	.101 dB(A)
Operator – ISO 6396	71 dB(A)



### COOLANT & LUBRICANT CAPACITY

Fuel tank	200 ltr <b>52.8 U.S. gal</b>
Coolant	
Engine	
Final drive, each side	
Swing drive	2.5 ltr <b>0.7 U.S. gal</b>
Hydraulic tank	69.0 ltr 18.2 U.S. gal
DEF tank	12.6 itr 3.3 U.S. gal



#### OPERATING WEIGHT [APPROXIMATE]

Operating weight includes 4600 mm **15'1"** one-piece boom, 2500 mm **8'2"** arm, SAE heaped 0.51 m³ **0.67 yd³** backhoe bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

Triple-Grouser	Operating Weight	Ground Pressure ISO 16754
Road Liner 500 mm 20"	15682 kg <b>34,563 lb</b>	45.29 kPa / 0.46 kg/cm <sup>2</sup> 6.57 psi
600 mm	15732 kg	37.86 kPa / 0.39 kg/cm <sup>2</sup>
24*	34,673 lb	5.49 psi
700 mm <b>28*</b>	15932 kg <b>35.114 lb</b>	32.87 kPa / 0.34 kg/cm <sup>2</sup> 4.77 psi

#### **Component Weights**

#### Arm including bucket cylinder and linkage

Alli iliciddilig bucket cynnder and inkage	
2500 mm 8'2" arm assembly 529 kg 1,164 lk	3
2500 mm 8'2" arm assembly w/piping 558 kg 1,228 ll	b
3000 mm 9'10" arm assembly 643 kg 1,415 lt	3
3000 mm 9'10" arm assembly w/piping 678 kg 1,492 il	b
One piece boom including arm cylinder	
4600 mm <b>15'1"</b> boom	b
Counterweight	b
Blade including blade cylinders848 kg 1,870 ll	b
Bucket 0.51 m3 0.67 yd3 762 mm 30" width 517 kg 1,140 ll	b

	Arm Length	2500 mm	8'2"	3090 mm	9'10"
	Boom length	4600 mm	15'1"	4600 mm	15'1 <b>"</b>
A	Overall length	7385 mm	24'3"	7285 mm	23'11"
В	Overall height (to top of boom)*	2850 mm	9'4"	3210 mm	10'6"
C	Length on ground (transport)	4540 mm	14'11#	4400 mm	14'5"
D	Overall width	2590 mm	8'6"		
E	Overall height (to top of cab)*	2815 mm	9'3"		
F	Ground clearance, counterweight	900 mm	2'11"		
G	Ground clearance, minimum	395 mm	1'4"		
Н	Tail swing radius	1545 mm	5'1"		
ı	Track length on ground	3140 mm	10'4"		
J	Track length	3870 mm	12'8"	r-	Р.
K	Track gauge	1990 mm	6'6"		
	Width of crawler (500 mm Shoe)	2490 mm	8'2" 8'6"	₹	
L	(600 mm Shoe) (700 mm Shoe)	2590 mm 2690 mm	8'10"	Į.	
N	Grouser height	20 mm	0.8"		
0	Machine height to top of counterweight	2140 mm	7'0"	\	
P	Machine upper width	2490 mm	8'2"	_	
Q	Distance, swing center to rear end	1545 mm	5'1"		(년 K
					D.L

<sup>\*:</sup> Including grouser height

Blade ...... 2590mm 8'6" wide x 590mm 1' 11"

## BACKHOE BUCKET, ARM AND BOOM COMBINATION

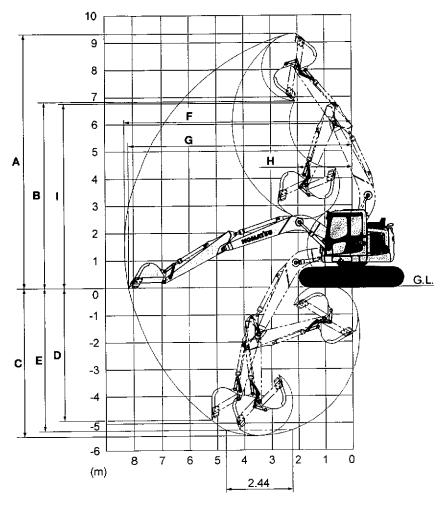
Bucket	Ĭ		Buck	et			Ar	ms
Туре	Cap	acity	Wid	th	We	ight	2.5 m (8'2")	3.0 m (9'10"
	0.26 m <sup>3</sup>	0.34 yd <sup>3</sup>	457 mm	18"	332 kg	732 lb	γ	٧
	0.38 m <sup>3</sup>	0.50 yd <sup>3</sup>	610 mm	24"	387 kg	853 lb	γ	٧
Komatsu	0.51 m <sup>3</sup>	0.67 yd <sup>3</sup>	762 mm	30"	437 kg	963 lb	V	٧
TL	0.63 m <sup>3</sup>	0.83 yd <sup>3</sup>	914 mm	36"	499 kg	1,099 lb	W	X
	0.76 m <sup>3</sup>	1.00 yd3	1067 mm	42"	559 kg	1,232 lb	X	Υ
	0,26 m <sup>3</sup>	0.34 yd <sup>3</sup>	457 mm	18"	379 kg	836 lb	V	V
	0.31 m <sup>3</sup>	0.40 yd3	508 mm	20"	396 kg	873 lb	V	V
Komatsu	0,38 m³	0.50 yd <sup>a</sup>	610 mm	24"	457 kg	1,007 lb	ν	V
HP	0.51 m <sup>3</sup>	0.67 yd <sup>3</sup>	762 mm	30°	517 kg	1,140 lb	ν	w
	0.63 m <sup>3</sup>	0.83 yd <sup>3</sup>	914 mm	36"	591 kg	1,303 lb	W	Х
	0.76 m <sup>3</sup>	1.00 yd <sup>3</sup>	1067 mm	42"	664 kg	1,464 lb	Y	Z
	0.26 m <sup>3</sup>	0.34 yd <sup>3</sup>	457 mm	18"	406 kg	895 lb	٧	ν
	0.31 m <sup>3</sup>	0.40 yd <sup>3</sup>	508 mm	20"	426 kg	939 lb	V	ν
Komatsu	0.38 m³	0.50 yd <sup>3</sup>	610 mm	24"	493 kg	1,086 lb	V	ν
HPS	0.51 m <sup>3</sup>	0.67 yd3	762 mm	30"	562 kg	1,240 lb	V	W
	0.63 m <sup>3</sup>	0.83 yd <sup>3</sup>	914 mm	36"	645 kg	1,423 lb	X	Υ
	0.76 m <sup>3</sup>	1.00 yd3	1067 mm	42"	728 kg	1,605 lb	Υ	Z

- V Used with material weights up to 3,500 lb/yd3
- X Used with material weights up to 2,500 lb/yd3
- Z Not useable

- W Used with material weights up to 3,000 lb/yd3
- Y Used with material weights up to 2,000 lb/yd $^{3}$

## **SPECIFICATIONS**

## WORKING RANGE

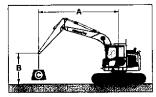


	Arm Length	2500 mm	8'2"	3000 mm	9'10"
A	Max, digging height	9340 mm	30'8"	9700 mm	31'10"
В	Max. dumping height	6840 mm	22'5"	7350 mm	24'1"
C	Max. digging depth	5480 mm	18'0"	5900 mm	19'4"
D	Max. vertical wall digging depth	4900 mm	16'1"	5340 mm	17'6"
E	Max, digging depth for 8' level bottom	5265 mm	17'3"	5715 mm	18'9"
F	Max. digging reach	8300 mm	27'3"	8720 mm	2817"
G	Max. digging reach at ground level	8180 mm	26'10"	8600 mm	28'3"
н	Min. swing radius	1980 mm	6'6"	2264 mm	7'5"
1	Max. height at min. swing radius	6770 mm	22'3"	6770 mm	22'3"
ting	Bucket digging force	81.4 k 8300 kg / <b>18</b>		78.0 k 7950 kg / 17	
SAE rating	Arm crowd force	60.8 k 6200 kgf / 13		54.4 k 5550 kgf / 13	
ting	Bucket digging force	93.2 k 9500 kg / <b>2</b> 0		88.3 k 9000 kg / 19	
ISO rating	Arm crowd force	61.8 k 6300 kgf / 1		55.9 k 5700 kgf / 1	

## LIFT CAPACITIES



### LIFTING CAPACITY WITH LIFTING MODE



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

#### Conditions:

- 4600 mm 15' 1" one-piece boom
- Counterweight (total mass): 3460 kg 7,630 lb
- Bucket: None
- Lifting mode: On

Arm: 2500 mm 8'2"	Shoes: 500 r	nm <b>20"</b> triple grouser	Blade: No Blade			Unit: kg lb
	5 m <b>5</b> ¹	3.0 m 1 <b>0'</b>	4.6 m <b>15</b> '	6.1 m <b>20'</b>	7.6 m <b>25'</b>	I MAX
B Cf	Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m		3470 * 3470			*	2500 * 2500
25'	•				*	2210 2210
6.1 m			* 3360 * 3360		*	2010 2010
20 '			* 7420 * 7420 * 2720 * 2720 *	3010 2490	*	<b>4430 * 4430</b> 1870 * 1870
4.6 m <b>15'</b>			* 3730 * 3730 * * <b>8220 * 8220</b> *	3010 2490 <b>6650 5500</b>	*	4140 * 4140
3,0 m	*	* 6000 * 6000	* 4600 3730	3890 2440	•	1870 * 1870
10'	1		* 10150 8230	8590 5380	*	4140 * 4140
1.5 ៣	•	* 8460 6340	* 5570 3510	3790 2350	*	1980 1820
5'	¥	10000 10000	* <b>12290</b> 7750 5680 3350	<b>8370 5180</b> 3700 2270		4370 4010 2210 1830
0 m <b>0'</b>		* 5730 * 5970 * <b>14850 * 13160</b>	5680 3350 <b>12540 7380</b>	8157 5010		4880 4050
-1.5 m * 3920	* 3920 *	* 9030 5910	5500 3270	3660 2230	•	2880 2000
-5' * 8640		* 19920 13030	12340 7210	8080 4920	*	5920 4420
-3.0 m * 7540	1070	* 7570 5980	* 5240 3290		•	3790 2470
-10' * 16620	* 16620 *	* 16700 13200	* 11570 <b>726</b> 0		*	8350 5460
Arm: 2500 mm 8'2"	<b>Shoes:</b> 500 n	nm <b>20</b> " triple grouser	Blade: Blade Included - B	Blade on Ground		Unit: kg Ib
A 1.5	5 m <b>5</b> '	3.0 m 1 <b>0'</b>	4.6 m <b>15</b> '	6.1 m <b>20'</b>	7.6 m <b>25'</b>	I MAX
B Cf	Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m		* 3470 * 3470			*	2500 * 2500
25'	*	* 7650 * 7650	* 2260 * 2360		*	5510 * 5510 2010 * 2010
6.1 m <b>20</b> '			* 3360 * 3360 * <b>7420 * 7420</b>		*	4430 * 4430
4.6 m			* 3730 * 3730 *	3010 2530	*	1870 * 1870
15'			* 8220 * 8220 *	6650 5800	*	4140 * 4140
3.0 m	•	* 6000 * 6000	* 4600 3920 *	3950 2570	*	1870 * 1870
10'	y	13200 13200	* 10150 8660 *	8710 5680	*	7170 1110
1. <u>5</u> m	•	* 8460 6680	* 5570 3710 *	4320 2480	*	1980 1930 4 <b>370 4250</b>
5'		* <b>18660 14730</b> * 6730 * 6310	* <b>12290 8180 *</b> * 6150 3540 *	<b>9520 5480</b> 4560 2400	*	2210 1950
0 <b>'</b>	,		* 13580 7810 *	10050 5310	*	4880 4300
-1.5 m * 3920	* 3920	9030 6250	* 6100 3460 *	4390 2370	*	2680 2130
-5' * 8640		* 19920 13780	* 13440 7640 *	9690 5220	*	5920 4590
-3.0 m * 7540	* 7540	* 7570 6330	* 5240 3480		*	3790 2620
-10' * 16620	* 16620 *	* 16700 13950	* 11570 7690		*	8350 5790
Arm: 3000 mm 9*10"	Shoes: 500	) mm 20 <sup>e</sup> triple grouser	Blade: No Blade			Unit: kg lb
A 1.	5 m <b>5</b> '	3.0 m <b>10</b> <sup>r</sup>	4.6 m <b>15'</b>	6.1 m <b>20'</b>	7.6 m <b>25'</b>	I MAX
B Cf	Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs	Cf Cs
7.6 m			* 2060 * 2060			1900 1900
25'			* 4550 * 4550	1000 + 1000	,	7000 1000
6.1 m			* 2960 * 2960 * * 6520 * 6520 *	1860 * 1860 4100 * 4100		* 1660 * 1660 * <b>3670 * 3670</b>
20 '			0020 0020	4100 * 4100 2910 2500	,	* <b>3670 * 3670</b> * 1560 * 1560
4,6 m <b>15</b> ¹			* 2990 * 2990 * * <b>6600 * 6600</b> *		•	* 3430 * 3430
3,0 m		* 3850 * 3850	* 3680 * 3680 *	3470 2430	* 1650 * 1650 *	* 1550 * 1550
10'		* 8500 * 8500	* 8110 * 8110 *	7650 5360	* 3640 * 3640 *	0120 0120
1.5 m		* 7590 6440	* 5180 3510	3770 2320	* 2410 1550 1	* 1620 1610
5'		* 16740 14210		8320 5120 3660 2220	* 5310 3670 * * 2300 1620 *	****
0'm 0'		* 7920 5940 * 17460 13100	5650 3310 12470 7290	3660 2220 8080 4900		* 39 <b>40</b> 3570
-1.5 m * 3520		* 8510 5780	5520 3190	3600 2160		* 2100 1740
-5' * 7770		* 18760 12750	12180 7050	7940 4770	•	* 4640 3850
-3.0 m * 7130		* 8150 5830	5490 3190	3610 2170	•	2780 2080
	0 * 15710		12120 7040	7950 4790	•	* 6130 4600
-4.6 m		* 5710 * 5710	* 3680 3300			* 3190 3070 * <b>7050 6780</b>
-15'		* 12600 * 12600	* 8120 7280			1000 0100

### LIFT CAPACITIES



### LIFTING CAPACITY WITH LIFTING MODE



- A: Reach from swing center
- Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- 3: Rating at maximum reach

#### Conditions:

- 4600 mm 15' 1" one-piece boom
- · Counterweight (total mass): 3460 kg 7,630 lb
- Bucket: None
- · Lifting mode: On

<b>Arm:</b> 3000 m	m 9	9'10"	S	hoes: 50	ID n	nm <b>20"</b> t	riple	e grouser		Blade: 8	lade	e Include	d – E	Blade on	Gro	und							Ur	nit: kg lb
A		1.5	m	5'		3.0	m	0'		4.6	m í	15'		6.1	m	20¹	ì	7.6	m i	25'		: 1	MA.	K
В		Cf		Cs	Ī	Ci		Cs	Γ	Cf		Cs	Т	Cf	Τ	Cs		Cf	Г	Cs		Cf		Cs
7.6 m									*	2060	*	2060									*	1980	*	1980
25'									*	4550	*	4550									*	4380	*	4380
6.1 m									*	2960	*	2960	*	1860	*	1860					*	1660	*	1660
20 '									*	6520	*	6520	*	4100	*	4100					*	3670	*	3670
4.6 m									*	2990	*	2990	*	2910		2630					*	1560	*	1560
15'									*	6600	*	6600	*	6420		5810					*	3430	*	3430
3.0 m					*	3850	*	3850	*	3680	*	3680	*	3470		2560	*	1650	*	1650	*	1550	*	1550
10¹					*	8500	*	8500	*	8110	*	8110	*	7650		5660	*	3640	*	3640	*	3420	*	3420
1.5 m					*	7590		6780	*	5180		3700	*	4070		2560	*	2410		1770	*	1620	*	1620
5'					*	15740		14950	*	11420		8170	*	8980		5660	*	5310		3900	*	3580	*	3580
0 m					*	7920		6280	*	5940		3500	*	4420		2360	*	2300		1730	*	1780		1720
O'					*	17460		13850	*	13110		7720	*	9740		5200	*	5070		3810	*	3940		3800
-1.5 m *	. 3	3520	*	3520	*	8510		6130	*	6070		3390	*	4430		2300					*	2100		1860
-5' *		7770	×	7770	*	18760		13510	*	13400		7480	*	9770		5070					*	4640		4100
-3.0 m *	7	7130	*	7130	*	8150		6170	*	5540		3380	*	3770		2310					*	2780		2210
-10' *		5710	*	15710	*	17970		13610	*	12220		7460	*	8320		5090					*	6130		4880
-4.6 m					*	5710	*	5710	•	3680	*	3460									•	3190	*	3190
-15'					*	12600	•	<b>126</b> 00	*	8120	*	7640									*	7050	*	7050

Shoes: 600 mm 24" triple grouser Blade: No Blade Arm: 2500 mm 8'2"

Unit: kg lb

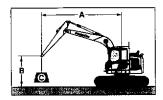
A		1.5	m	5'	Y	3,0	m	10'	1	4.61	n i	5'	1	6.1 r	n <b>20</b> '	7.6 r	n <b>25'</b>	M	: 1	IA)	K.
В		Cf	Τ	Cs		Cf	Τ	Cs		Cf		Cs	Т	Cf	Cs	Cf	Cs		Cf		Cs
7.6 m			_		*	3470	*	3470										*	2500	*	2500
25'					*	7650	*	7650										*	5510	*	5510
6.1 m									*	3360	*	3360						*	2010	*	2010
20 '									*	7420	*	7420						*	4430	*	4430
4.6 m									*	3730	*	3730	*	3010	2520			*	1870	*	1870
15'									*	8220	*	8220	*	6650	5560			*	4140	*	4140
3.0 m					*	6000	*	6000	*	4600		3770		3940	2470			*	1870	*	1870
10'					*		*	13230	*	10150		8320		8590	5440			*	4140	*	4140
1.5 m					*	8450		6410	*	5570		3550		3840	2380			*	1980		1840
5'					*	18650		14130	*	12290		7840		8470	5250			*	4370		4060
0 m					*	6730		6040		5750		3390		3750	2300			*	2210		1860
0'					*	14850		13320		12690		7470		8270	5070			*	4880		4100
-1,5 m	*	3920	*	3920	*	9030		5980		5660		3310		3710	2260			*	2680		2030
-5'	*	8640	*	8640	*	19920		13190		12490		7300		8180	4990			*	5920		4480
-3.0 m	*	7540	*	7540	*	7570		6060	*	5240		3330						*	3790		2510
-10'	*	16620	*	16620	*	16700		13360	*	11570		7350						*	8350		5530

Unit: ka lh

Arm: 2500	ШII	18'2"	Ş	noes: 600	) m	m 24" tri	ple	grouser	- 1	Blade: Bl	aoe	Incinaea	- PI	age on Gr	ouna					U	IIII: KY ID
A	ì	1.5	m	5'	M	3.0	m	10'	И	4.6	m '	15'	M	6.1 (	n 20'	7.6 r	n <b>25</b> '	Y	:	IΙΑ.	X
8	Τ	Cf		Cs	1	Cf	Ì	Cs		Cf		Cs		Cf	Cs	Cf	Cs		Cf		Cs
7.6 m			_		٠	3470	*	3470										*	2500	*	2500
25'					*	7650	*	7650										*	5510	*	5510
6.1 m									*	3360	*	3360						*	2010	*	2010
20 '									*	7420	*	7420						*	4430	*	4430
4.6 m									*	3730	*	3730	*	3010	2650			*	1870	*	1870
15'									*	8220	*	8220	*	6650	5960			*	4140	*	4140
3.0 m					*	6000	*	6000	*	4600		3970	*	3950	2600			*	1870	*	1870
10 <sup>1</sup>					*	13230	*	13230	*	10150		8750	*	8710	5740			*	4140	*	4140
1.5 m			_		*	8460		6750	*	<del>- 557</del> 0-		<del>3750</del>	*	-4320-	<del>2510</del>			*	<del>-198</del> 0-		<b>-195</b> 0
51					*	18660		14890	*	12290		8270	*	9520	5540			*	4370		4300
0 m					*	6730	*	6380	*	6160		3880	*	4560	2430			*	2210		1970
O,					*	14850	*	14070	*	13580		7900	*	10050	5370			*	4880		4350
-1.5 m	A	3920	*	3920	*	9030		6320	*	6100		3500	*	4390	2390			*	2680		2150
-5 <sup>1</sup>	*	8640	*	8640	*	19920		13940	*	13440		7730	*	9690	5280			*	5920		4750
-3.0 m	*	7540	*	7540	*	7670		6400	*	5240		3520						*	3790		2650
-10	*	16620	±	16620	*	16700		14110	*	11570		7780						*	8350		5860



#### LIFTING CAPACITY WITH LIFTING MODE



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- 8: Rating at maximum reach

#### Conditions:

- 4600 mm 15' 1" one-piece boom
- Counterweight (total mass): 3460 kg 7,630 lb
- Bucket: None
- · Lifting mode: On

Arm: 3000	mn	1 <b>9'10"</b>	9	Shoes: 60	Ю п	nm <b>24"</b> ti	ripl	e grouser		Blade: N	o B	lade											Ur	nit: kg lb
A	ſ	1.5	ſŢ.	5'	Y	3.0	m	10'	M	4.6	m '	15'		6.1	m	20'	Y	7.6	m	25'	Y	- :	ΜA	X
В	T	Ci		Cs	T	Cf	Т	Cs	T	Cf	Τ	Cs	Г	Cf		Cs		Cf		Cs		Cf		Cs
7.6 m									*	2060	*	2060									*	1980	*	1980
25'									*	4550	*	4550									*	4380	*	4380
6.1 m									*	2960	*	2960	*	1860	*	1860					*	1660	*	1660
20 '									*	6520	*	6520	*	4100	*	4100					*	3670	*	3670
4.6 m									*	2990	*	2990	*	2910		2530					*	1560	*	1560
15'									*	6660	*	6660	*	6420		5580					*	3430	*	3430
3.0 m					*	3850	*	3850	*	3680	*	3680	*	3470		2460	*	1650	*	1650	*	1550	*	1550
10'					*	8500	*	8500	*	8110	*	8110	*	7550		5420	*	3640	*	3640	*	3420	*	3420
1.5 m					*	7590		6510	*	5180		3550		3820		2350	*	2410		1680	*	1620	*	1620
5'					*	16740		14360	*	11420		7830		8420		5190	*	5310		3720	*	3580	*	3580
0 m					*	7920		6010		5720		3350		3710		2250	*	2300		1640	*	1780		1640
0'''					*	17460		13260		12620		7380		8180		4970	*	5070		3630	*	3940		3620
-1.5 m	*	3520	*	3520	*	8510		5850		5590		3240		3640		2190					*	2100		1770
-1.5 iii	*	7770	*	7770	*	18760		12910		12330		7140		8040		4840					*	4640		3900
-3.0 m	*	7130	*	7130	*	8150		5900	*	5540		3230		3650		2200					*	2780		2110
-3.0 m	*	15710	*	15710	*	17970		13010	*	12220		7130		8050		4850					*	5130		4660
-4,6 m		13710		19710	*	5710	*	5710	*	3680		3340		JJ00		.500					*	3190		3110
-4.0 III					*	12600	*	12600	*	8120		7370									*	7050		6850

"Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

### Conditions:

- 4600 mm 15' 1" one-piece boom
- Counterweight (total mass): 3460 kg 7,630 lb
- Bucket: None
- Lifting mode: On

Arm: 3000 mm 9'10"	Shoes: 600 mm 24" triple grouser	Blade: Blade Included - Blade on Ground		Unit: kg Ib
	2.0 401	1.0 15l 6.1 m 20)	7.6 m 25	: MAY

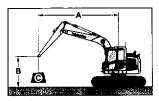
A	Y	1.5	m	5'	Y	3.0	m 1	101	Y	4.6	m i	5'	M	6.1	m	20³	Y	7.6	m	25'	Υ	:	VΑ	X
В	İ	Cf		Cs	T	Cf	П	Cs	Т	Cl	Τ	Cs	T	Cf	T	Cs	Т	Cf		Cs	Γ	Cf		Cs
7,6 m	٠								*	2060	*	2060									*	1980	*	1980
25'									*	4550	*	4550									*	4380	*	4380
6.1 m									*	2960	*	2960	*	1860	*	1860					*	1660	*	1660
20									*	6520	*	6520	*	4100	*	4100					*	3670	*	3670
4.6 m									*	2990	*	2990	*	2910		2660					*	1560	*	1560
15'									*	6600	*	6600	*	6420		5870					*	3430	*	3430
3.0 m						3850	*	3850	*	3880	*	3880	*	3470		2590	*	1650	*	1650	*	1550	*	1550
3.0 III					*	8500	*	8500	*	8110	*	8110	*	7650		5720	*	3640	*	3640	*	3420	*	3420
-					*	7590		6860	*	5180		3740	*	4070		2480	*	2410		1790	*	1620	*	1620
1.5 m									*	11420		8260	*	8980		5480	*	5310		3950	*	3580	*	3580
5'					-	16740		15120	*			3540	*	4420		2390	*	2300		1750	*	1780		1740
0 m					_	7920		6350	_	5940			*	9740		5260	*	5070		3860	*	3940		3850
0'					*	17460		14010	-	13110		7810						3010		3000	*	2100		1880
-1.5 m	*	3520		3520		8510		6200	_	6070		3430	٠	4430		2330					*	4640		4150
-5'	*	7770	*	7770	*	18760		13670	*	13400		7570		9770		5140								
-3.0 m	*	7130	*	7130	*	8150		6240	*	5540		3420		3770		2330					*	2780		2240
-10'	*	15710	*	15710	*	17970		13770	*	12220		7550	*	8320		5150						6130	_	4940
-4.6 m					*	5710	*	5710	*	3680	*	3500										3190		3190
-15'					*	12600	*	12600	*	8120	*	7720									*	7050	*	7050

"Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

## LIFT CAPACITIES



### LIFTING CAPACITY WITH LIFTING MODE



A: Reach from swing center

B: Bucket hook height

C: Lifting capacity

Cf: Rating over front

Cs: Rating over side

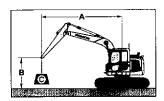
: Rating at maximum reach

#### Conditions:

- 4600 mm 15' 1" one-piece boom
- · Counterweight (total mass):
- 3460 kg 7,630 lb
- Bucket: None
- · Lifting mode: On

Arm: 2500	) mr	n 812"	ŞI	hoes: 700	) mi	m <b>28"</b> tri	ple	grouser	-	Blade: No	Bia	ade								Ur	it: kg lb
\ I	14	1.5	m	5'	M	3.0	m `	10'	ľ	4.6	m í	5'	M	<b>6.1</b> r	n <b>20'</b>	7.6 n	25'	M	:	VΙΑ	X
В	Ī	Cf	Т	Cs	T	Cf		Cs		Cf	Π	Cs		Cf	Cs	Cf	Cs		Cf		Cs
7.6 m	`				٠	3470	*	3470	_									*	2500	*	2500
25'					*	7650	*	7650										*	5510	*	5510
6.1 m									*	3360	*	3360						*	2010	*	2010
20 '									*	7420	*	7420						*	4430	*	4430
4.6 m									*	3730	*	3730	*	3010	2550			*	1870	*	1870
15'									*	8220	*	8220	*	6650	5630			*	4140	×	4140
3.0 m					*	6000	*	6000	*	4600		3820	*	3950	2500			*	1870	*	1870
10'					*	13230	*	13230	*	10150		8420	*	8710	5510			*	4140	*	4140
1.5 m					*	8460	*	8460	*	5570		3600		3890	2410			*	1980		1860
5'					*	18660	*	18660	*	12290		7940		8580	5320			*	4370		4120
0 m					*	6730	*	6120		5830		3430		3800	2380			*	2210		1880
0'					*	14850	ŧ	13490		12860		7570		8390	5140			*	4880		4160
-1.5 m	*	3920	*	3920	*	9030		6060		5740		3360		3760	2290			*	2690		2050
-5'	*	8640	*	8640	*	19920		13360		12660		7400		8290	5050			*	5920		4540
-3.0 m	*	7540	*	7540	*	7560		6140	*	5240		3380						*	3790		2540
-10'	*	16520	*	16520	*	16700		13530	*	11570		7450						*	8350		5610
-4.6 m - <b>15</b> '																					

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

#### Conditions:

- 4600 mm 15' 1" one-piece boom
- Counterweight (total mass):
- 3460 kg **7,630 lb**
- Bucket: None
- · Lifting mode: On

Arm: 2500 mm 8'2" Shoes: 700 mm 28" triple grouser							Blade: Blade Included - Blade on Ground											Unit: kg lb					
A	A 1.5 m 5'			3.0 m 1 <b>0'</b>				4.6 m <b>15'</b>				Υ	6.1 m	20'	7.6 r	Υ.	:	M/A	VAX				
В		Cf		Cs	T	Cf		Cs	T	Ct	T	Cs		Cf	Cs	Cf	Cs		Cf		Cs		
7.6 m	-				*	3470	*	3470										*	2500	*	2500		
25'					*	7650	*	7650										*	5510	*	5510		
6.1 m						-			*	3360	*	3360						*	2010	*	2010		
20 '									*	7420	*	7420						*	4430	*	4430		
4.6 m									*	3730	*	3730	*	3010	2690			*	1870	*	1870		
15'									*	8220	*	8220	*	6650	5930			*	4140	*	4140		
3.0 m					*	6000	*	6000	*	4600		4010	*	3950	2630			*	1870	*	1870		
10'					*	13200	*	13200	*	10150		8850	*	8710	5810			*	4140	*	4140		
1.5 m					*	8460		6830	*	5570		3790	*	4320	2540			*	1980		1970		
5'					*	18660		15070	*	12290		8370	*	9520	5610			*	4370		4360		
0 m					*	6730	*	6480	*	6160		3630	*	4560	2460			*	2210		2000		
0'					*		*	14250	*	13580		8000	*	10050	5440			*	4880		4410		
-1.5 m		3920	*	3920		9030		6400		6100		3550		4390	2430			*	2680		2180		
-1.5111	*	8640	*	8640	*	19920		14120	*	13440		7830	*	9590	5350			*	5920		4810		
-3.0 m	*	7540	*	7540	*	7570		6480	*	5240		3570		0000	0000			*	3790		2690		
-3.0 m	*	16620		16620	*	16700		14290	*	11570		7880						*	8350		5930		
-4.6 m		10020		10020		10100		17230				. 500							-500				
-4.0 (I) -151																							

\*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



#### LIFTING CAPACITY WITH LIFTING MODE



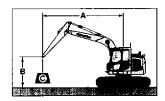
- Reach from swing center
- Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- : Rating at maximum reach

#### Conditions:

- 4600 mm 151 14 one-piece boom
- Counterweight (total mass):
- 3460 kg 7,630 lb • Bucket: None
- · Lifting mode: On

Arm: 3000 mm 9'10" Shoes: 700 mm 28" triple grouser								Blade: No Blade												Unit: kg lb				
A	A 1.5 m <b>5</b> <sup>1</sup>			3.0 m 10'				M	4.6 m 1 <b>5'</b>				6,1 m <b>20'</b>			7.6 m <b>25</b> 1				Υ	I MAX			
В	Г	Cf		Cs	Ť	Cf		Cs	:	Cf		Cs	Τ	Cf		Cs		Cf	П	Cs		Cf	Τ	Cs
7.6 m							_		*	2060	*	2060				•					*	1980	*	1980
251									*	4550	*	4550									*	4380	*	4380
6.1 m									٠	2960	*	2960	*	1860	*	1860					*	1660	*	1660
20 '									ŧ	6520	*	6520	*	4100	*	4100					*	3670	*	3670
4.6 m									*	2990	*	2990	*	2910		2560					*	1560	*	1560
15'									*	6500	*	6500	*	6420		5650					*	3430	*	3430
3.0 m					*	3850	*	3850	*	3680	*	3680	*	3470		2490	*	1650	*	1650	*	1550	*	1550
10¹					*	8500	*	8500	*	8110	*	8110	*	7650		5490	*	3640	*	3640	*	3420	*	3420
1.5 m					*	7590		6590	*	5180		3590		3870		2380	*	2410		1710	*	1620	*	1620
5'					*	16740		14540	*	11420		7930		8540		5250	*	5310		3770	*	3580	*	3580
0 m					×	7920		6090		5800		3390		3760		2280	*	2900		1670	*	1780		1660
01					*	17460		13490		12790		7480		8290		5030	*	5070		3680	*	3940		3670
-1.5 m	*	3520	*	3520	*	8510		5930		5670		3280		3690		2220					*	2100		17 <del>9</del> 0
-5¹	*	7770	*	7770	*	18760		13090		12500		7240		8150		4910					*	4640		3960
-3.0 m	*	7130	ŧ	7130	*	8150		5980	*	5540		3270		3700		2230					*	2780		2140
-10'	*	15710	*	15710	*	17970		13190	*	12220		7230		8170		4920					*	6130		4720
-4.6 m				-	*	5710	*	5710	*	3680		3380									*	3190		3150
-15'					*	12600	*	12600	*	8120		7470									*	7050		5960

Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.



- A: Reach from swing center
- B: Bucket hook height
- C: Lifting capacity
- Cf: Rating over front
- Cs: Rating over side
- e: Rating at maximum reach

#### Conditions:

• 4600 mm 15' 1" one-piece boom

44.24 ( . 11-

- · Counterweight (total mass): 3460 kg 7,630 lb
- Bucket: None
- Lifting mode: On

A 1.5 m 5' 3.0 m 10' 4.6 m 15' 6.1 m 20'	Arm: 3000 r	nm 9'10" -	Shoes: 700 m	m 28" triple grouse	r <b>Blade:</b> Bla	ade Included	- Blade on O	Ground
	A	1.5 m	5'	3.0 m 1 <b>0</b> ²	4.6 n	n 15'	6.1	m <b>20</b> ¹

Arm	Arm: 3000 mm 9'10" Shoes: 700 mm 28" triple grouser										Blade: Blade Included - Blade on Ground												Unit: kg lb				
	A	Y	1.5	5'		3.0 m <b>10</b> 3				4.6	4.6 m 15 <sup>t</sup>			6.1 m <b>20</b> 1			Y	7.6 m <b>25'</b>				:	MΑ	X			
В			Cf		Cs		Cf	T	Cs	:	Cf		Cs		Cf		Cs		Cf		Cs		Cf		Cs		
7	.6 m	`								*	2980	*	2980									*	1980	*	1980		
	25'									*	6520	*	6520									*	4380	*	4380		
6	.1 m									*	2060	*	2060	*	1860	*	1860					*	1660	*	1660		
- 1	20 ¹									*	4550	*	4550	*	4100	*	4100					*	3670	*	3670		
4	.6 m									*	2990	*	2990	*	2910		2690					*	1560	*	1560		
	15'									*	6600	*	6600	*	6420		5940					*	3430	*	3430		
3	.0 m					*	3850	*	3850	*	3680	*	3680	*	3470		2620	*	1650	*	1650	*	1550	*	1550		
	10'					*	8500	*	8500	*	8110	*	8110	*	7650		5790	*	3640	*	3640	*	3420	*	3420		
1	.5 m					*	7590		6940	*	5180		3790	*	4070		2520	*	2410		1810	*	1620	*	1620		
	5'					*	16740		15300	*	11420		8360	*	8980		5550	*	5310		4000	*	3580	*	3580		
(	0 m					*	7920		6430	*	5940		3590	×	4420		2420	*	2300		1770	*	1780		1770		
	0'					*	17460		14190	*	13110		7910	*	9740		5330	*	5070		3910	*	3940		3900		
	1:5 m	*	3520	*	3520	*	8510		6280	*	6070		3470	*	4430		2360					*	2100		1910		
	-5¹	*	7770	*	7770	*	18760		13840	*	13400		7670	*	9770		5200					*	4640		4210		
-;	3.0 m	*	7130	*	7130	*	8150		6320	*	5540		3470	*	3770		2370					*	2780		2270		
	-10'	*	15710	*	15710	*	17970		13940	*	12220		7650	*	8320		5220					*	6130		5010		
	4.6 m					*	5710	•	5710	*	3680	*	3550									*	3190	*	3190		
	-15'					*	12600	*	12600	*	8120	*	7820									*	7050	*	7050		

<sup>&</sup>quot;Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 67% of hydraulic lift capacity or 75% of tipping load.



#### STANDARD EQUIPMENT

- · Air cleaner, double element with auto dust evacuator
- · Cooling fan, viscous type
- · Debris guards for radiator and oil cooler
- Engine, Komatsu SAA4D95LE-7
- · Engine overheat prevention system

#### **ELECTRICAL SYSTEM**

- Alternator, 24 V/60 A
- Auto-decelerator
- Batteries, 2 x 12 V/72 Ah
- · Electric horn
- Starting motor 24 V/4.5 kW
- Working light on boom
- Working lights on cab (2)

#### **HYDRAULIC SYSTEM**

· Boom holding valve

#### **GUARDS AND COVERS**

- · Fan guard structure
- Handrails
- · Pump/engine partition cover

#### UNDERCARRIAGE

**HYDRAULIC SYSTEM** 

**GUARDS AND COVERS** 

(ISO 10262)

(ISO 10262)

(ISO 10262)

two-way flow

Cab guard

. Shoe, 600 mm 24" triple grouser

• Hydraulic control unit - 1 additional

-Full front guard, OPG level 1

-Full front guard, OPG level 2

-Bolt-on top guard, OPG level 2

actuator (+ 1 Hydraulics) with one and

#### **OPERATOR ENVIRONMENT**

- 2 x 12 V power points
- 2 way multi-control valve
- 24 V 12 V power converter
- Automatic A/C
- Auto idle shutdown function
- · Auxiliary input jack
- · Cab includes: antenna, AM/FM radio, floor mat, intermittent front windshield wiper and washer, large ceiling hatch, pull-up front window, removable lower windshield
- Foldable mirror (LH)
- Large high resolution LCD monitor
- Lock lever
- · Mirror (Rear)
- · Operator identification function
- Operator protective top guard, OPG level 1 (ISO 10262)
- · Rear view monitor system
- ROPS cab (ISO 12117-2)
- Seat belt, 76 mm 3"
- Suspension seat
- Swing holding brake

#### OTHER

- · Counterweight (total mass), 3460 kg 7,630 lb
- Equipment management monitoring system
- KOMTRAX®
- · Pattern change valve
- Rear reflector
- Travel alarm

### OPTIONAL EQUIPMENT UNDERCARRIAGE

- · Extended track frame steps for 700 mm 28" tracks
- Shoes
- -500 mm 20" triple grouser
- -700 mm 28" triple grouser
- -500 mm 20" rubber roadliner

#### **OPERATOR ENVIRONMENT**

Sunvisor

#### **WORK EQUIPMENT**

- Arms
- -2500 mm 8'2" arm assembly
- -2500 mm 8'2" arm assembly with piping
- -3000 mm 9'10" arm assembly
- -3000 mm 9'10" arm assembly with piping
- Booms
  - -4600 mm 15'1" boom assembly
- -4600 mm 15'1" boom assembly with piping
- Blade
- -2490 mm 8'6" wide blade

AESS895-03

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AD07(5M)OTP

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Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

#### 3-1-2 STANDARD PRODUCT WARRANTY COVERAGE POLICY

itents	
PURPOSE	. 18
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### STANDARD PRODUCT WARRANTY COVERAGE POLICY

#### A) PURPOSE

Komatsu warrants that a new Machine procured by the Distributor from Komatsu for resale to Customers or for use by the Distributor will be free of defects in material and workmanship.

This policy provides an overview of the terms of **Komatsu's** Machine Product Warranty **Coverage Policy**. Product Warranty is also sometimes referred to as Standard Warranty.

#### B) COVERAGE

- 1. Komatsu will reimburse the Distributor for specific expenses related to correcting defects in material or workmanship. In general, the repairs executed in correcting these defects should restore the Machine to its operating condition just prior to the failure.
- Komatsu's reimbursement will follow the terms outlined in Reimbursement Policy Section of the Warranty and Coverage Policies.
- 3. The warranty period for the Machine extends for 12 months from the Machine's FID date with the following exceptions:
  - a. **DORF Machines:** 15 months from **FID date** or 8,736 hours, whichever comes first. 24 months from **FID date** for all machines with **FID date** after August 1, 2013.
  - b. RTS Machines: Rent to Sell [RTS] machines with an FID after [1/1/2015] will receive 18 months to use 12 months of Standard Product Warranty (365 days). Any unused Standard Product Warranty days (365) will transfer to the customer if the Rent to Sell [RTS] machine is final delivered within the 18 months. The warranty term will never extend past the 18 month period from FID date. The Standard Product Warranty start date is the machine FID date and Standard Product Warranty days used is based on machine rental in and out activity as documented in Pronto.

#### Example:

- Rent to Sell [RTS] machine consumes 200 warranty days, based on Distributor recorded rental in and out activity in PRONTO.
- Machine is final delivered [FD] to the customer at 15 months from the FID.
- This customer then receives the remainder of Standard Product Warranty to use within the next 3 months. The Standard Product Warranty term will never extend past the 18 month period from FID date.

#### STANDARD PRODUCT WARRANTY POLICY



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THIS POLICY IS SUBJECT TO CHANGE OR CANCELLATION AT ANY TIME

#### Example:

- Rent to Sell [RTS] machine consumes 100 warranty days, based on Distributor recorded rental in and out activity in PRONTO.
- The machine is final delivered [FD] to the customer at 20 months from the FID.
- There is NO Standard Product Warranty remaining because the machine is past the 18 months from FID.
- c. Machines covered by marketing programs: Komatsu may release marketing programs from time to time that provide special product warranty coverage terms for specific machines. The marketing programs are announced through *Price and Policy Letters* that can be found on the Marketing homepage of Komatsu's extranet system (https://www.komatsuamerica.net).

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#### C) EXCLUSIONS

- 1. Repairs to components supplied by Allied Suppliers. Please see Allied Supplier Warranty Policy and Contact Information Section of the Warranty and Coverage Policies for a list of these suppliers and their contact information.
- 2. Repairs or replacements of:
  - a. Parts that are worn because of use. Examples of wear resulting from use would include, by way of example but not limitation, deterioration of undercarriage components and machine work equipment, hydraulic cylinder seal leaks, wear of clutch or brake packs, pins or bushings, etc.
  - b. Parts that are not procured from Komatsu.
- 3. Operating expenses required to keep the **Machine** in good operating condition including, by way of example but not limitation:
  - a. System adjustments.
  - b. Scheduled maintenance outlined in the Machine Operation and Maintenance Manual ("O&M Manual"), including the cost of periodic maintenance items such as filters, lubricants, brushes and grease.
  - c. Oil analysis condition monitoring program such as Komatsu Oil Wear Analysis ('KOWA"), including the cost of drawing samples, oil, sampling accessories, postage and analysis report fees.
  - d. The cost of carrying out oil sampling program maintenance recommendations such as early re-sampling and/or replacement of oil or filters.
- 4. Komatsu will not cover any unauthorized modification without prior approval of Komatsu management.
- 5. Failures resulting from:
  - a. Shipment of Machine or replacement parts by any party other than Komatsu.
  - b. Failure of parts from allied suppliers or parts not procured through Komatsu.
  - c. Operating the Machine outside the guidelines specified in O&M Manual.
  - d. Operating the **Machine** outside of the parameters specified in the **Machine** specific Payload Policy or other notices or letters from **Komatsu**.
  - e. Noncompliance with the maintenance schedule and procedure outlined in the Machine's O&M manual.
  - f. Contaminated fuel, lubricant or coolant.
  - g. Continuing to operate the Machine when oil sampling reports or the Machine monitor panel, Komtrax PLUS, Komtrax, PLM or any other systems ("Machine Monitoring Systems") show critical errors, indicate that components are compromised by failures or are performing below specifications, or when Komatsu or the Distributor has requested that components be repaired or removed from the Machine because of an impending failure, Komatsu authorized field campaign or other good cause.
  - h. Improper Machine or replacement part storage procedures.
  - i. Incomplete or faulty repair procedures on previous repairs.
  - j. Improper initialization procedures during Machine or replacement part commissioning.



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- k. Machine attachments options, accessories, modifications, or work equipment not authorized in O&M Manual and other materials published by Komatsu for Distributors and Customers or otherwise approved in writing and signed by an engineering officer of Komatsu (example SEST, SFR, etc.).
- I. Work site hazards or falling objects.
- m. Fire, accidents, vandalism, theft, acts of terrorism or war, acts of nature or other causes beyond the direct control of **Komatsu**.
- n. Misuse, misapplication, negligence or other misconduct on the part of the **Distributor**, **Customer** or any other person.

#### D) DISTRIBUTOR RESPONSIBILITIES

- 1. **Distributor** will review the terms of Komatsu's Machine Product Warranty Coverage Policy with the **Customer** representative when the **Machine** is sold to the **Customer**. The **PRODUCT WARRANTY CERTIFICATE FORM** is a copy of the **Machine** warranty certificate.
- 2. **Distributor** will store a copy of the Machine Product Warranty Certificate signed by the **Customer** for a minimum period of 7 years from the **Machine FID date**.
- 3. **Distributor** will establish and manage an oil condition monitoring for wheel motors on **Electric Drive Trucks.**
- 4. **Distributor** will complete **Covered Repairs**, store the failed parts and register claims for reimbursement from **Komatsu** per the terms specified in Reimbursement Policy Section of the **Warranty and Coverage Policies**.

#### **E) KOMATSU RESPONSIBILITIES**

Komatsu will assess Distributor claims per the terms specified in the Claim Evaluation, Review and Distributor Reimbursement Procedure Section of the Warranty and Coverage Policies.