



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

State of West Virginia  
 Request for Quotation  
 13 - Equipment

RECEIVED

2020 JAN 30 PH 1:57

WV PURCHASING  
 DIVISION

Proc Folder: 677055

Doc Description: Addendum No.01: Compact Track Excavator with Attachments

Proc Type: Central Purchase Order

Date Issued	Solicitation Closes	Solicitation No
2020-01-27	2020-01-31 13:30:00	CRFQ 0313 DEP2000000019

BID CLERK

DEPARTMENT OF ADMINISTRATION

PURCHASING DIVISION

2019 WASHINGTON ST E

CHARLESTON

WV 25305

US

Vendor Name, Address and Telephone Number:

West Virginia Tractor Company  
 P.O. Box 473  
 Charleston, WV 25322

304-346-5301

FOR INFORMATION CONTACT THE BUYER:

Guy Nisbet  
 (304) 558-2596  
 guy.l.nisbet@wv.gov

Signature X

FEIN #

550621655

DATE

1-29-20

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

**Addendum**

Addendum No.01 issued to publish and distribute the attached information to the vendor community.

\*\*\*\*\*

**Request for Quotation  
(Hydraulic compact Tract Excavator w/Attachments)**

The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Department of Environmental Protection (WVDEP) Rehabilitation Environmental Action Plan (REAP), to establish a contract for the one-time purchase of one (1) Hydraulic Compact Track Excavator and the associated listed attachments for the same, per the bid requirements, specifications, terms and conditions as attached hereto.

ENVIRONMENTAL PROTECTION REAP OFFICE 601 57TH ST SE CHARLESTON WV25304 US	ENVIRONMENTAL PROTECTION REAP OFFICE 601 57TH ST SE CHARLESTON WV 25304 US
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Line	Comm Ln Desc	Qty	Unit Issue	Unit Price	Total Price
1	Hydraulic Compact Track Excavator with Attachments	1.00000	EA		

Comm Code	Manufacturer	Specification	Model #
30190000			

**Extended Description :**

Hydraulic Compact Track Excavator with Attachments, as listed in attached specifications.

**ADDENDUM ACKNOWLEDGEMENT FORM**  
**SOLICITATION NO.:** \_\_\_\_\_

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

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

**Addendum Numbers Received:**

(Check the box next to each addendum received)

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

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

West Virginia Tractor Company

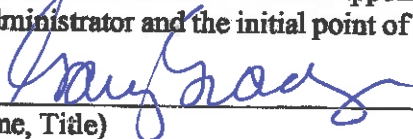
\_\_\_\_\_  
Company  
*Jay Tracy*  
\_\_\_\_\_  
Authorized Signature

1-29-20

\_\_\_\_\_  
Date

**NOTE:** This addendum acknowledgement should be submitted with the bid to expedite document processing.  
Revised 6/8/2012


**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.

 President

\_\_\_\_\_  
 (Name, Title)  
 Gary W. Grady, President  
 \_\_\_\_\_  
 (Printed Name and Title)  
 P.O. Box 473 Charleston, WV 25322  
 \_\_\_\_\_  
 (Address)  
 304-346-5301 304-346-5305  
 \_\_\_\_\_  
 (Phone Number) / (Fax Number)  
 wvtractor@msn.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.

West Virginia Tractor Company

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

\_\_\_\_\_  
 (Authorized Signature) (Representative Name, Title)  
 Gary W. Grady, President

\_\_\_\_\_  
 (Printed Name and Title of Authorized Representative)  
 1-29-2020

\_\_\_\_\_  
 (Date)  
 304-346-5301 304-346-5305

\_\_\_\_\_  
 (Phone Number) (Fax Number)



## 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](mailto:ethics@wv.gov); website: [www.ethics.wv.gov](http://www.ethics.wv.gov).*

West Virginia Ethics Commission  
**Disclosure of Interested Parties to Contracts**

(Required by W. Va. Code § 6D-1-2)

West Virginia Tractor Company  
Name of Contracting Business Entity: \_\_\_\_\_ Address: P.O. Box 473  
Charleston, WV 25322

Name of Authorized Agent: Gary Grady Address: Charleston, WV

Contract Number: DEP20\*19 Contract Description: Compact Track Excavator

Governmental agency awarding contract: WV DEP

Check here if this is a Supplemental Disclosure

List the Names of Interested Parties to the contract which are known or reasonably anticipated by the contracting business entity for each category below (attach additional pages if necessary):

1. Subcontractors or other entities performing work or service under the Contract

Check here if none, otherwise list entity/individual names below.

2. Any person or entity who owns 25% or more of contracting entity (not applicable to publicly traded entities)

Check here if none, otherwise list entity/individual names below.

Gary and Christine Grady  
Steve Basham  
Susan Martin

3. Any person or entity that facilitated, or negotiated the terms of, the applicable contract (excluding legal services related to the negotiation or drafting of the applicable contract)

Check here if none, otherwise list entity/individual names below.

Signature: Gary Grady Date Signed: 1-29-20

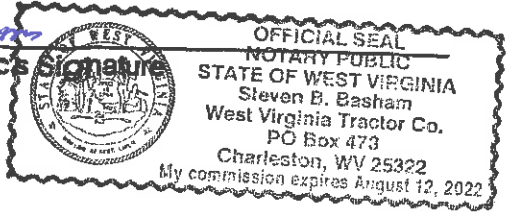
**Notary Verification**

State of West Virginia Kanawha  
County of \_\_\_\_\_

I, Gary Grady, the authorized agent of the contracting business entity listed above, being duly sworn, acknowledge that the Disclosure herein is being made under oath and under the penalty of perjury.

Taken, sworn to and subscribed before me this 29th day of January 2020

Steven B. Basham  
Notary Public's Signature



To be completed by State Agency:  
Date Received by State Agency: \_\_\_\_\_  
Date submitted to Ethics Commission: \_\_\_\_\_  
Governmental agency submitting Disclosure: \_\_\_\_\_

STATE OF WEST VIRGINIA  
Purchasing Division

**PURCHASING AFFIDAVIT**

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

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

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

**DEFINITIONS:**

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

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

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

**AFFIRMATION:** By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (W. Va. Code §61-5-3) that: (1) for construction contracts, the vendor is not in default on any monetary obligation owed to the state or a political subdivision of the state, and (2) for all other contracts, that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

**WITNESS THE FOLLOWING SIGNATURE:**

Vendor's Name: West Virginia Tractor Company

Authorized Signature: [Signature] Date: 1-29-2020

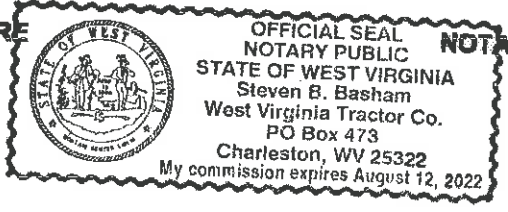
State of West Virginia

County of Kanawha to-wit:

Taken, subscribed, and sworn to before me this 29 day of January, 2020.

My Commission expires August 12, 2022

AFFIX SEAL HERE



NOTARY PUBLIC [Signature: Steven B. Basham]

**Exhibit A - Pricing Page**  
**West Virginia Department of Environmental Protection (WVDEP), REAP Section**  
**Compact Track Excavator w/Attachments**

Item No.	Description	Year, Make, and Model	Quantity	Unit Price	Extended Price
3.1.1	Hydraulic Compact Excavator w/ matching Attachments	Hyundai R35Z-9a 2019 or 2020 depending on date ordered	1	\$37,990	\$37,990
<b>TOTAL BID AMOUNT:</b>					\$37,990

Vendor must identify Make and Model at time of submitting Bid Response and should provide Product Brochures.



State of West Virginia  
**VENDOR PREFERENCE CERTIFICATE**

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

1. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is an individual resident vendor and has resided continuously in West Virginia, or bidder is a partnership, association or corporation resident vendor and has maintained its headquarters or principal place of business continuously in West Virginia, for four (4) years immediately preceding the date of this certification; **or**,  
 Bidder is a resident vendor partnership, association, or corporation with at least eighty percent of ownership interest of bidder held by another entity that meets the applicable four year residency requirement; **or**,  
 Bidder is a nonresident vendor which has an affiliate or subsidiary which employs a minimum of one hundred state residents and which has maintained its headquarters or principal place of business within West Virginia continuously for the four (4) years immediately preceding the date of this certification; **or**,
2. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a resident vendor who certifies that, during the life of the contract, on average at least 75% of the employees working on the project being bid are residents of West Virginia who have resided in the state continuously for the two years immediately preceding submission of this bid; **or**,
3. **Application is made for 2.5% vendor preference for the reason checked:**  
 Bidder is a nonresident vendor that employs a minimum of one hundred state residents, or a nonresident vendor which has an affiliate or subsidiary which maintains its headquarters or principal place of business within West Virginia and employs a minimum of one hundred state residents, and for purposes of producing or distributing the commodities or completing the project which is the subject of the bidder's bid and continuously over the entire term of the project, on average at least seventy-five percent of the bidder's employees or the bidder's affiliate's or subsidiary's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years and the vendor's bid; **or**,
4. **Application is made for 5% vendor preference for the reason checked:**  
 Bidder meets either the requirement of both subdivisions (1) and (2) or subdivision (1) and (3) as stated above; **or**,
5. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is an individual resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard and has resided in West Virginia continuously for the four years immediately preceding the date on which the bid is submitted; **or**,
6. **Application is made for 3.5% vendor preference who is a veteran for the reason checked:**  
 Bidder is a resident vendor who is a veteran of the United States armed forces, the reserves or the National Guard, if, for purposes of producing or distributing the commodities or completing the project which is the subject of the vendor's bid and continuously over the entire term of the project, on average at least seventy-five percent of the vendor's employees are residents of West Virginia who have resided in the state continuously for the two immediately preceding years.
7. **Application is made for preference as a non-resident small, women- and minority-owned business, in accordance with West Virginia Code §5A-3-59 and West Virginia Code of State Rules.**  
 Bidder has been or expects to be approved prior to contract award by the Purchasing Division as a certified small, women- and minority-owned business.
8. **Application is made for reciprocal preference.**  
 Bidder is a West Virginia resident and is requesting reciprocal preference to the extent that it applies.

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

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

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

Bidder: West Virginia Tractor Company

Signed: 

Date: 1-29-2020

Title: President

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



# CERTIFICATE OF GARAGE INSURANCE

DATE (MM/DD/YYYY)  
03/18/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Jeremy Stanford	CONTACT NAME: Sentry Customer Service
	PHONE (A/C, No, Ext): 800-473-6879 FAX (A/C, No): 800-514-7191
	EMAIL ADDRESS: businessproducts_direct@sentry.com
<b>INSURER(S) AFFORDING COVERAGE</b>	
INSURER A : Sentry Select Insurance Company	NAIC # 21180
INSURER B :	
INSURER C :	
INSURER D :	
INSURER E :	
INSURER F :	

INSURED  
West Virginia Tractor Co.  
PO Box 473  
214 Virginia Street West  
Charleston, WV 25322

COVERAGES      PROD / CUSTOMER ID:      CERTIFICATE #: 1311744      REVISION #:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSRD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> GARAGE LIABILITY <input type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY NON-OWNED AUTOS USED IN GARAGE BUSINESS			A0053698001	04/01/2019	04/01/2020	AUTO ONLY (Ea accident) \$ 500,000 OTHER THAN AUTO ONLY EA ACCIDENT \$ 500,000 AGGREGATE \$ 2,500,000
A	<input type="checkbox"/> GARAGE KEEPERS LIABILITY <input checked="" type="checkbox"/> LEGAL LIABILITY <input type="checkbox"/> DIRECT BASIS <input checked="" type="checkbox"/> PRIMARY <input type="checkbox"/> EXCESS			A0053698001	04/01/2019	04/01/2020	<input checked="" type="checkbox"/> COMP / OTC SPECIFIED PERILS    LOC 1 \$ 250,000 <input type="checkbox"/> COLLISION    LOC 1 \$ 250,000 <input type="checkbox"/> LOC \$
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input checked="" type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER	X		A0053698005	04/01/2019	04/01/2020	EACH OCCURRENCE \$ 500,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 100,000 MED EXP (Any one person) \$ 5,000 PERSONAL & ADV INJURY \$ 500,000 GENERAL AGGREGATE \$ 1,500,000 PRODUCTS - COMP/OP AGG \$ 1,500,000 <input type="checkbox"/> \$
A	<input checked="" type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE DED    RETENTION \$			A0053698008	04/01/2019	04/01/2020	EACH OCCURRENCE \$ 2,000,000 AGGREGATE \$ 6,000,000 PRODUCTS - COMP/OP AGG \$ 6,000,000 <input type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) Y / N If yes, describe under REMARKS below	N / A					E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$

REMARKS (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
Refer to attached

### CERTIFICATE HOLDER

WV DOH  
83 Brushy Road Xing  
PO Box 610  
Buckhannon, WV 26201-0610

### CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

ACORD 30 (2016/03)

Page 1 of 2

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A0053698  
Sentry Select Insurance Company

The ACORD name and logo are registered marks of ACORD

03/18/2019

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AGENCY CUSTOMER ID: XXXXXX1655

LOC #: \_\_\_\_\_

### ADDITIONAL REMARKS SCHEDULE

Page 2 of 2

<b>AGENCY</b> Jeremy Stanford		<b>NAMED INSURED</b> West Virginia Tractor Co.	
<b>POLICY NUMBER</b> A0053698001			
<b>CARRIER</b> Sentry Select Insurance Company	<b>NAIC CODE</b> 21180	<b>EFFECTIVE DATE:</b> 04/01/2019	

#### ADDITIONAL REMARKS

THIS ADDITIONAL REMARKS FORM IS A SCHEDULE TO ACORD FORM,

FORM NUMBER: ACORD 30    FORM TITLE: Certificate Of Garage Insurance

#### General Liability

WV DOH AND STATE OF WEST VIRGINIA ARE ADDITIONAL INSURED ON THE GENERAL LIABILITY, PER THE POLICY PROVISIONS IF REQUIRED AS SUCH IN WRITTEN CONTRACT WITH THE NAMED INSURED. GARAGE LIABILITY INCLUDES THE AUTOMOBILE LIABILITY. ANY AUTO COVERAGE INCLUDED. EXCESS/UMBRELLA LIABILITY FOLLOWS FORM.

# Hyundai R35Z-9A

## Specifications

Net Power 23.7 kW

(32.1 kW) at 2,200 rpm

Bucket Breakout Force

(ISO) 3,130 kgf (6,900 lbf)

Operating Weight (incl. canopy)

3,840 kg (8,470 lb) / 3,550 kg (7,800 lb)

Arm Digging Force

(ISO) 1,980 kgf (4,390 lbf)

### ENGINE

<b>MODEL</b>		YANMAR 3TNV88F	
<b>Type</b>		Water-cooled, 4-cycle diesel 3 cylinders in line, direct injection, low emission	
<b>Rated flywheel horsepower</b>	SAE	J1995 (gross)	24.4 HP (18.2 kW) at 2,200 rpm
		J1349 (net)	23.7 HP (17.7 kW) at 2,200 rpm
<b>Max. torque</b>		9.1 kgf·m (79 lbf·ft) at 1,320 rpm	
<b>Bore X stroke</b>		88 mm (3.46") x 90 mm (3.54")	
<b>Piston displacement</b>		1,642 cc (100 in <sup>3</sup> )	
<b>Battery</b>		1 x 12V x 70 Ah	
<b>Starting motor</b>		12 V - 2.3 kW	
<b>Alternator</b>		12 V - 55 Amp	

### HYDRAULIC SYSTEM

<b>MAIN PUMP</b>		Variable displacement piston pumps + gear pump	
<b>Type</b>		Variable displacement piston pumps + gear pump	
<b>Max. flow</b>		2 x 37.4 l/min (2 x 9.9 gpm) + 23.1 l/min (6.1 gpm) at 2,200 rpm	
<b>Sub-pump for pilot circuit (Gear Pump)</b>		23.1 / 9.9 l/min (6.1 / 2.6 gpm)	

### CROSS-SENSING AND FUEL-SAVING PUMP SYSTEM

<b>HYDRAULIC MOTORS</b>		Two-speed axial piston motor with counter balance valve and parking brake	
<b>Travel</b>		Two-speed axial piston motor with counter balance valve and parking brake	
<b>Swing</b>		Axial piston motor with automatic brake	

### RELIEF VALVE SETTING

<b>Implement circuits</b>	230 kgf/cm <sup>2</sup> (3,560 psi)
<b>Travel circuit</b>	230 kgf/cm <sup>2</sup> (3,270 psi)
<b>Swing circuit</b>	200 kgf/cm <sup>2</sup> (2,845 psi)
<b>Pilot circuit</b>	40 kgf/cm <sup>2</sup> (570 psi)
<b>Service valve</b>	Installed

### HYDRAULIC CYLINDERS

<b>No. of cylinders bore X stroke</b>	<b>Boom</b> : 85 x 540 mm (3.3" x 21.3")
	<b>Arm</b> : 80 x 585 mm (3.1" x 23.0")
	<b>Bucket</b> : 70 X 510 mm (2.8" x 20.1")
	<b>Boom swing</b> : 80 X 400 mm (3.1" x 15.7")
	<b>Dozer blade</b> : 95 X 152 mm (3.7" x 6.0")

### TRAVEL SYSTEM

<b>Drive method</b>	Full hydrostatic type
<b>Drive motor</b>	Axial piston motor, in-shoe design
<b>Reduction system</b>	2-stage planetary
<b>Max. drawbar pull</b>	3,100 kgf (6,835 lbf)
<b>Max. travel speed (high) / (low)</b>	4.2 km/hr (2.6 mph) / 2.5 km/hr (1.6 mph)
<b>Gradeability</b>	30° (58%)
<b>Parking brake</b>	Multi-wet disc

### CONTROLS

Pilot-pressure-operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

<b>Pilot control</b>	Two joysticks with one safety lever (LH): Arm swing, Boom swing (RH): Boom and bucket with horn (ISO)
<b>Traveling and steering</b>	Two levers with pedals
<b>Engine throttle</b>	Electric, dial type

### SWING SYSTEM

<b>Swing motor</b>	Axial piston motor
<b>Swing reduction</b>	2-stage planetary
<b>Swing bearing lubrication</b>	Grease-bathed
<b>Swing brake</b>	Multi wet disc
<b>Swing speed</b>	9.5 rpm

### COOLANT AND LUBRICANT CAPACITY

(Refilling)	liter	gal
<b>Fuel tank</b>	40.0	10.5
<b>Engine coolant</b>	5.5	1.5
<b>Engine oil</b>	6.7	1.8
<b>Hydraulic tank</b>	37.0	9.8
<b>Hydraulic system</b>	60	15.9

### WEIGHT (APPROXIMATE)

Operating weight, including 2,500 mm (8' 12") boom, 1,300 mm (4' 3") arm, SAE heaped 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) excavator bucket, 300 mm (11.8") rubber track, lubricant, coolant, full fuel tank, hydraulic tank, 560 kg (1,230 lb) counterweight and the standard equipment.

<b>Operating weight (canopy)</b>	3,550 kg (7,800 lb)
<b>Ground pressure (canopy)</b>	0.33 kg/cm <sup>2</sup> (4.69 psi)

### UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricate rollers, track adjusters with shock absorbing springs and sprockets, and track chain with triple grouser shoes.

<b>Center frame</b>	X - leg type
<b>Track frame</b>	Pentagonal box type
<b>No. of track shoes on each side</b>	44
<b>No. of upper rollers on each side</b>	1
<b>No. of lower rollers on each side</b>	4

## R35Z-9A Lifting Capacity ISO Condition 2



Rating over front



Rating over side or 360 degree

Boom: 2.50 m (8' 2") / Arm: 1.30 m (4' 3") / Bucket: 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) SAE heaped / Dozer down / Rubber track: 300 mm (12") / Cabin Type / Counterweight: 560 kg (1,230 lb)

Lift-point height m (ft)	Lift-point radius								At max. reach		
	1.0 m (3.3 ft)		2.0 m (6.6 ft)		3.0 m (9.8 ft)		4.0 m (13.1 ft)		Capacity	Reach	
4.0 m	kg								*670	*670	3.12
13.1 ft	lb								*1,470	*1,470	(10.2)
3.0 m	kg						*620	590	*630	580	4.04
9.8 ft	lb						*1,370	1,300	*1,380	1,280	(13.3)
2.0 m	kg				*790	*790	*650	580	*630	480	4.48
6.6 ft	lb				*1,730	*1,730	*1,430	1,280	*1,390	1,070	(14.7)
1.0 m	kg				*1,060	850	*740	560	*650	450	4.61
3.3 ft	lb				*2,340	1,870	*1,620	1,230	*1,430	1,000	(15.1)
0.6 m	kg				*1,200	1,190	*1,190	840	*670	470	4.86
0.6 m	lb				*2,670	*2,670	*2,670	1,800	*1,480	1,020	(15.0)
-1.0 m	kg	*1,930	*1,930	*1,890	1,550	*1,110	810		*690	550	4.00
-3.3 ft	lb	*4,250	*4,250	*4,160	3,430	*2,440	1,790		*1,520	1,210	(13.1)
-2.0 m	kg			*1,210	*1,210	*670	*670		*650	*650	3.03
-6.6 ft	lb			*2,670	*2,670	*1,490	*1,490		*1,440	*1,440	(9.9)

Notes:

1. Lifting capacities are based on ISO 10567.

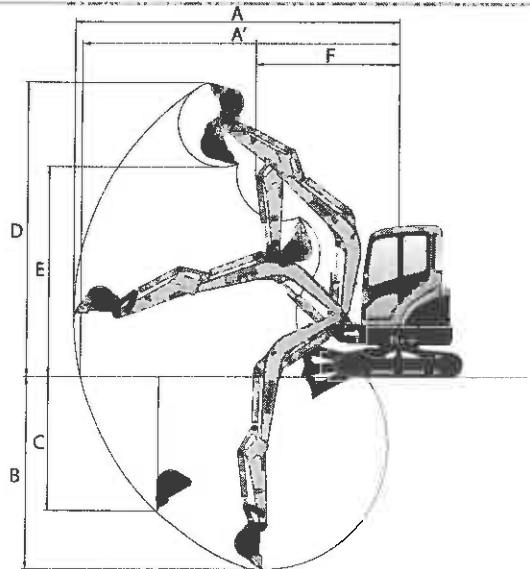
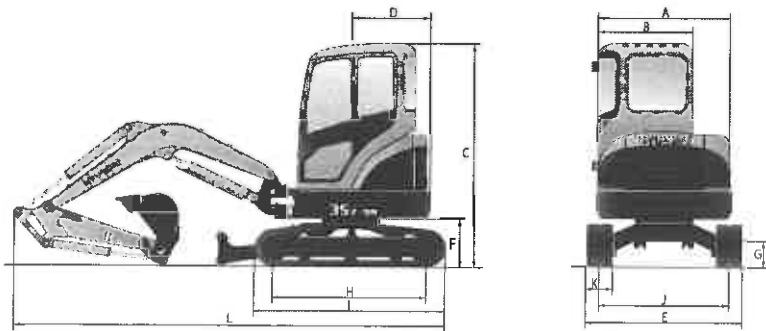
2. Lifting capacities of the 9A Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The lift-point is a hook (standard equipment) located on the back of the bucket.

4. (\*) indicates load limited by hydraulic capacity.

# Dimensions & Working Range

## R35Z-9A DIMENSIONS



### R35Z-9A DIMENSIONS

		mm (ft-in)			
<b>A</b>	Overall width of upper structure	1,500 (4' 11")	<b>G</b> Ground clearance	290 (0' 11")	
<b>B</b>	Overall width of cab	1,050 (3' 5")	<b>H</b> Tumbler distance	1,700 (5' 7")	
<b>C</b>	Overall height of cab	2,500 (8' 2")	<b>I</b> Track length	2,130 (7' 10")	
<b>D</b>	Tail swing radius	870 (2' 10")	<b>J</b> Track gauge	1,440 (4' 9")	
<b>E</b>	Overall width	1,740 (5' 9")	<b>K</b> Track shoe width	300 (1' 0")	
<b>F</b>	Clearance under counterweight	540 (1' 9")	<b>L</b> Overall length	1,300-mm Arm	4,790 (15' 9")
				1,600-mm Arm	4,815 (15' 10")

### R35Z-9A WORKING RANGE

		mm (ft-in)	
Boom length		2,500 (8' 2")	
Arm length		1,300 (4' 3")	1,600 (5' 3")
<b>A</b>	Max. digging reach	5,315 (17' 5")	5,605 (18' 5")
<b>A'</b>	Max. digging reach on ground	5,200 (17' 1")	5,495 (18' 0")
<b>B</b>	Max. digging depth	3,135 (10' 3")	3,440 (11' 3")
<b>C</b>	Max. vertical wall digging depth	2,190 (7' 2")	2,565 (8' 5")
<b>D</b>	Max. digging height	4,810 (15' 9")	5,010 (16' 5")
<b>E</b>	Max. dumping height	3,425 (11' 3")	3,615 (11' 10")
<b>F</b>	Min. swing radius	2,350 (7' 9")	2,330 (7' 8")

### STANDARD EQUIPMENT

- Cabin TOPS ISO 12117 (ROPS ISO 12117-2) FOG ISO 10262 Level I (FOPS ISO 3449 Level I)
- All-weather steel cab with all-around visibility
- Safety glass windows
- Sliding fold-in front window
- Sliding side window
- Lockable door
- Accessory box
- Air conditioner and heater
- Centralized monitoring
- Gauges
  - Fuel level gauge
  - Engine coolant temperature gauge

- Warning indicators
  - Quick clamp
  - Engine oil pressure
  - Engine coolant temperature
  - Preheat
  - Low battery
  - Air cleaner clogging
  - Fuel empty
- Door and locks, universal key
- Mechanical suspension seat with seat belt
- Radio / USB Player
- Console box tilting system (LH)
- One front working lights
- Electric horn
- Battery (1 x 12 V x 70 AH)
- Battery master switch
- Automatic swing brake

- Removable reservoir tank
- Water separator, fuel line
- Mono boom (2.5 m / 8' 2")
- Arm (1.3 m / 4' 3")
- Rubber track shoes (300 mm / 12")
- Double acting piping (Clamshell, etc)
- Auto idle function
- Universal start key
- Emergency stop switch
- Auto travel shift down travel motor
- Cabin lamp
- Travel alarm
- Quick coupler with piping
- Heater and defroster
- Pattern-change lever
- Hyundai bucket (0.11 m<sup>3</sup> / 0.14 yd<sup>3</sup>)

### OPTIONAL EQUIPMENT

- Canopy TOPS ISO 12117 (ROPS ISO 12117-2) FOG ISO 10262 Level I (FOPS ISO 3449 Level I)

- Accumulator
- Steel track shoes (300 mm / 12")
- Long Arm (1.6 m)
- Additional counterweight (150 kg / 330 lb)

- RCV with proportional control switch
- Rotating attachment piping
- Safety lock valve



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**Robex**

# 35Z-9A

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\*Photo may include optional equipment.

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# PRIDE AT WORK

Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality.

***Moving you further !***



# Robex 35Z-9A

## Machine Walk-Around

### Rugged Upper and Lower Frame

The upper frame is designed to be heavy duty to absorb high stress load on the job. X-leg center frame and reinforced box section track frame provide exceptional strength and longer service life to withstand tough working conditions.

### Engine Technology

The R35Z-9A is powered by a proven and reliable, Tier 4 certified YANMAR 3TNV88F. This engine provides efficient fuel combustion and reduced noise.

### Efficient Control System

Control devices are all conveniently located for improved operator comfort and productivity. A safety lever on the left-side console is designed to prevent exiting the cabin while hydraulic controls are live.

### Advanced Hydraulic System

The R35Z-9A hydraulic system is precision designed for fast operation with fine control capabilities.

### Comfortable and Durable Cabin

The cabin is roomy and ergonomically designed, with reduced sound levels and good visibility. Both canopy and cabin style frames meet international standards TOPS, ROPS, FOPS ensuring operator's safety.

### Operator Convenience

The R35Z-9A features a suspension seat, foldable pedals for added space and multiple storage compartments.

The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter for productive, convenient operating.

### Easy and Simple Maintenance

An adjustable suspension seat, wrist rests, ergonomically designed joysticks and plenty of leg room help to reduce operator fatigue. A array of indicators and gauges are displayed on the monitor which keep the operator aware of machine performance at all times. The monitoring system includes seven warning indicators, water temperature gauge, fuel gauge and hour meter.

### Extended Life of Components

The R35Z-9A reduces operating costs over time with long life hydraulic filters, hydraulic oil, shims and bushings.



\*Photo may include optional equipment.



# PRECISION

Innovative hydraulic system technologies make the 9A series excavator fast, smooth and easy to control.





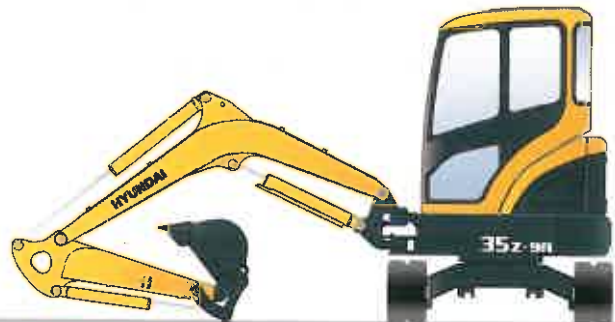
## Boom Swing

The R35Z-9A's boom swing function is designed for efficient work in congested residential and urban areas. The boom can be offset left or right within an operating range.



## Dozer Blade

Large dozer blade provides added versatility, work efficiency and stability for the job.



## Zero-tail Swing

R35Z-9A's short tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This compact radius design provides easy and efficient operation in any limited space work environment.



## Auto Idle Function

Engine speed can be reduced automatically when users do not operate levers so that fuel efficiency can be improved. (and machine noise can be reduced.)



## Lever Pattern Change Valve (Option)

Joystick control patterns can be changed through an optional pattern change valve positioned for easy access.



## Auto Shift Traveling System

During high-speed traveling, travel motor speed decreases automatically when subjected to heavy load, and resumes when the load reduces.

# PERFORMANCE

9A series is designed for maximum performance to keep the operator working productively.



\*Photo may include optional equipment.



## Cylinder Covers

Standard boom and dozer cylinder covers provide added protection.

## SLV (Safety Lock Valve)

SLV prevent the load from slipping or dropping due to hose failure.



## Structure Strength

The R35Z-9A cabin structure has been fitted with stronger but slimmer tubing for added safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.

## YANMAR 3TNV88F

**Emissions:** The most compact multi-cylinder liquid cooled industrial diesel engines comply with EPA Tier 4 Emission regulations without additional After Treatment Tools. This engine meets standards over the NRTC and NTE requirements.

**Lower Noise Level:** The half-float valve cover and MoS<sub>2</sub> coated piston reduce noise levels and vibration.



# PREFERENCE

Operating a 9A series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.



\*Photos may include optional equipment.



## Monitor

The monitoring system of the R35Z-9A provides the operator with machine status information, including engine oil pressure lamp, battery charge lamp, engine coolant temperature and a fuel gauge.

## Comfortable Operating Cabin

In a 9A series cabin, you can easily adjust the seat and wrist rests settings to best suit your preferred operating condition.

1. All pedals are foldable for additional floor space. Foot rest, attachment pedal, left and right travel pedals and boom swing pedal are arranged for convenient access.
2. Two cup holders are integrated into the right console for large and small drink storage.
3. An additional storage box with key lock is accessible under the operator's seat.
4. Adjustable wrist rests provide additional comfort.
5. A sliding fold-in front window is easily opened and safely stored in an open position to improve ventilation and visibility. (Cabin type only)



## Reduced Stress

An operator's work environment should be stress free. Hyundai's R35Z-9A compact excavator is designed for comfort, reduced sound and plenty of space to reduce stress on the operator.

## Operator Comfort

The left and right control levers are ergonomically located for convenient access. A safety lock system is designed to prevent exiting the cabin while hydraulic controls are live. When the safety lever and left side console are positioned upright, hydraulic functions are disengaged.



A tiltable left-side console make the operator easier to enter and exit the cab.



# PROFITABILITY

9A series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.



\*Photo may include optional equipment.



### Easy Change Air Cleaner

The R35Z-9A is equipped with a durable plastic air cleaner designed for easy maintenance.



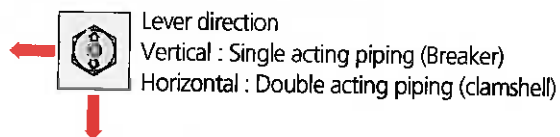
### Centralized Grease Fittings

A centralized lubrication bank is available for faster, easier service and maintenance.



### Selector Valve for Single or Double Acting Piping

Double Acting Pipe located on front of the Fuel Tank for easy to access and control.



### Easy Access

The R35Z-9A was built with accessibility in mind. All doors, covers and hoods were built for complete open access. Regular service and maintenance is easy and convenient with the R35Z-9A.



### Proportional Auxiliary Hydraulic System

- Opt: Proportional Control Switch for better speed control
- Enlarge the Operation Convenience



### Long-Life Components

9A series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), long-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time



# Specifications

## ENGINE

Model	Yanmar 3TNV88F		
Type	Water cooled, 4 cycle Diesel, 3-cylinders in line, direct injection, low noise		
Rated flywheel horse power			
SAE	J1995 (gross)	24.4 HP ( 18.2kW) at 2,200rpm	
	J1349 (net)	23.7 HP ( 17.7kW) at 2,200rpm	
DIN	627 1/1 (gross)	24.7 PS ( 18.2kW) at 2,200rpm	
	627 1/1 (net)	24 PS ( 17.7kW) at 2,200rpm	
Max. torque	9.1 kgf-m(79 lbf-ft) at 1,320 rpm		
Bore x stroke	88mm x 90mm (3.5" x 3.5")		
Piston displacement	1,642cc (100 in <sup>3</sup> )		
Batteries	12V - 80AH		
Starting motor	12V - 2.3kW		
Alternator	12V - 55A		

## HYDRAULIC SYSTEM

Main pumps	
Type	Variable displacement piston pumps
Rated flow	2 x 37.4 + 23.1 + 9.9 L/min
Sub-pump for pilot circuit	Gear pump
Hydraulic motors	
Travel	Two speed axial piston motor with counter balance valve and parking brake
Swing	Axial piston motor with automatic brake
Relief valve setting	
Implement circuits	230 Kg/cm <sup>2</sup> (3,270 psi)
Travel circuit	230 Kg/cm <sup>2</sup> (3,270 psi)
Swing circuit	200 Kg/cm <sup>2</sup> (2,840 psi)
Pilot circuit	30 Kg/cm <sup>2</sup> (430 psi)
Service valve	Installed

## HYDRAULIC CYLINDER

No. of cylinder - bore x stroke	
Boom	85 x 540 mm (3.3" x 21.3")
Arm	80 x 585 mm (3.1" x 23.0")
Bucket	70 X 510 mm (2.8" x 20.1")
Boom swing	80 X 400 mm (3.1" x 15.7")
Dozer blade	95 X 152 mm (3.7" x 6.0")

## NOISE LEVEL(CAB)

Noise Levels (dynamic value)	
LWA	94dB
LpA	75dB

## COOLANT & LUBRICANT CAPACITY

(refilling)	liter	US gal	UK gal
Fuel tank	40	10.6	8.8
Engine coolant	5.5	1.5	1.2
Engine oil	6.7	1.77	1.5
Hydraulic tank	37	9.8	8.1

## TRAVEL LEVERS

Traveling and steering : Two levers with pedals.

## CONTROL LEVERS

Type	Two joysticks with one safety lever
Pilot control	(LH): Swing and arm, (RH): Boom and bucket with horn (ISO)
Engine throttle	Electronical, Accel dial type

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing circuit lubrication	Grease - bathed
Swing brake	Wet disc
Swing speed	9.5 rpm

## DRIVES & BRAKES

Max. travel speed(high) / (low)	4.2km / 2.5km (2.6mph) / (1.6mph)
Maximum traction force	3.1ton
Maximum gradeability	30°
Parking brake	Wet disc

## DIGGING FORCE(ISO)

	1.3m Arm	1.6m Arm
Bucket	3,130 kgf	3,150 kgf
	30.7 kN	30.9kN
	6,900 lbf	6,945 lbf
Arm	1,990 kgf	1,720 kgf
	19.5 kN	16.9 kN
	4,390 lbf	3,790 lbf

## WEIGHT(APPROXIMATE)

Operating weight, including 2,500 mm (8' 2") boom, 1,300 mm (4' 3") arm, SAE heaped 0.11 m<sup>3</sup> (0.14 yd<sup>3</sup>) excavator bucket, lubricant, coolant, full fuel tank, hydraulic tank and the standard equipment.

Shoe Width	Rubber 300mm (12")	Steel 300mm (12")
Operating Weight	Cabin 3,690 Kg (8,140lb)	3,790 Kg (8,360lb)
	Canopy 3,550 Kg (7,800lb)	3,650 Kg (8,050lb)
Ground Pressure	Cabin 0.34 kg/cm <sup>2</sup> (4.83psi)	0.35 kg/cm <sup>2</sup> (4.98psi)
	Canopy 0.33 kg/cm <sup>2</sup> (4.69psi)	0.33 kg/cm <sup>2</sup> (4.69psi)

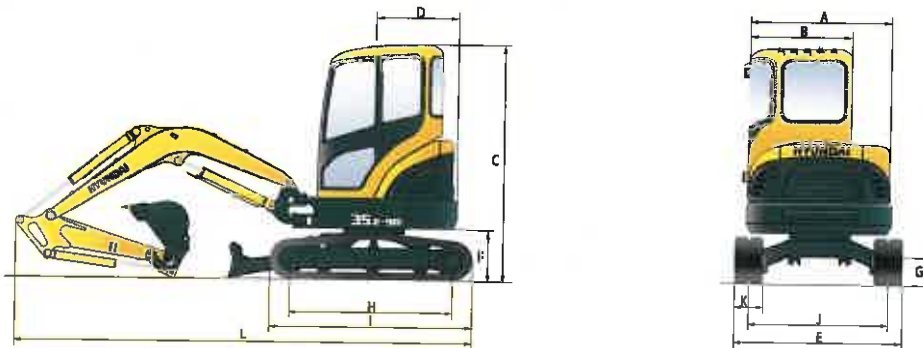
## UNDERCARRIAGE

X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, track adjusters with shock absorbing springs and sprockets, and rubber shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of carrier roller on each side	1
No. of track roller on each side	4

# Dimensions & Working Range

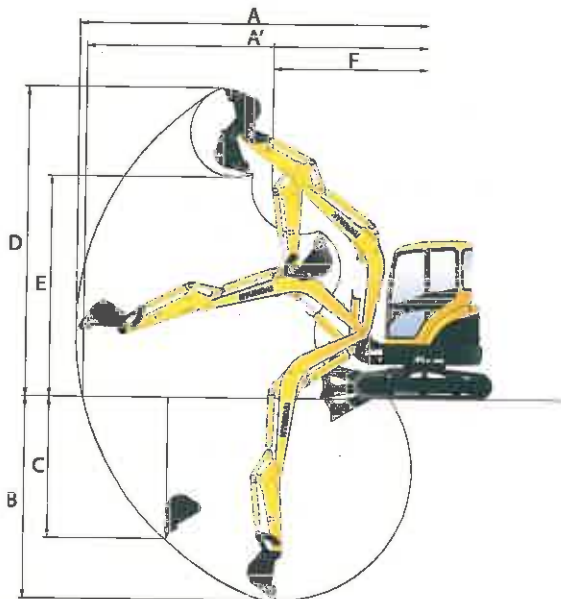
## R35Z-9A DIMENSIONS



		mm (ft-in)				
<b>A</b>	Overall width of upper structure	1,500 (4' 11")	<b>G</b> Ground clearance	290 (0' 11")		
<b>B</b>	Overall width of cab	1,050 (3' 5")	<b>H</b>	Tumbler distance	1,700 (5' 7")	
<b>C</b>	Overall height of cab	2,500 (8' 2")	<b>I</b>	Track length	2,130 (7' 10")	
<b>D</b>	Tail swing radius	870 (2' 10")	<b>J</b>	Track gauge	1,440 (4' 9")	
<b>E</b>	Overall width	1,740 (5' 9")	<b>K</b>	Track shoe width	300 (1' 0")	
<b>F</b>	Clearance under counterweight	540 (1' 9")	<b>L</b>	Overall length	1,300Arm	4,790 (15' 9")
				1,600Arm	4,815 (15' 10")	

## R35Z-9A WORKING RANGE

mm (ft-in)













<b>Boom length</b>	2,500 (8' 2")	
<b>Arm length</b>	1,300 (4' 3")	1,600 (5' 3")
<b>A</b> Max. digging reach	5,315 (17' 5")	5,605 (18' 5")
<b>A'</b> Max. digging reach at ground	5,200 (17' 1")	5,495 (18' 0")
<b>B</b> Max. digging depth	3,135 (10' 3")	3,440 (11' 3")
<b>C</b> Max. vertical wall digging depth	2,190 (7' 2")	2,565 (8' 5")
<b>D</b> Max. digging height	4,810 (15' 9")	5,010 (16' 5")
<b>E</b> Max. dumping height	3,425 (11' 3")	3,615 (11' 10")
<b>F</b> Min. swing radius	2,350 (7' 9")	2,330 (7' 8")

# Lifting capacity











 Rating over-front  Rating over-side or 360 degree

## R35Z-9A

Boom : 2.50 m (8' 2") / Arm : 1.30 m (4' 3") / Bucket : 0.11 m<sup>3</sup> SAE heaped / Dozer Down : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		Reach m (ft)
												
4.0 m	kg									*540	*540	3.94
15 ft	lb									*1190	*1190	(12.9)
3.0 m	kg											
10 ft	lb											
2.0 m	kg					*780	*780	*650	500	*560	330	5.11
5 ft	lb					*1720	*1720	*1430	1100	*1230	730	(16.8)
1.0 m	kg					*1100	750	*760	470	*580	310	5.18
5 ft	lb					*2430	1650	*1680	1040	*1280	680	(17.0)
Ground	kg			*1730	1390	*1290	710	*840	450	*600	330	4.98
Line	lb			*3810	3060	*2840	1570	*1850	990	*1320	730	(16.3)
-1.0 m	kg	*2100	*2100	*2210	1410	*1240	700	*780	450	*600	400	4.45
-5 ft	lb	*4630	*4630	*4870	3110	*2730	1540	*1720	990	*1320	880	(14.6)
-2.0 m	kg			*1520	1450	*860	730					
-5 ft	lb			*3350	3200	*1900	1610					

Boom : 2.50 m (8' 2") / Arm : 1.30 m (4' 3") / Bucket : 0.11 m<sup>3</sup> SAE heaped / Dozer Up : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		Reach m (ft)
												
4.0 m	kg									*540	530	3.94
15 ft	lb									*1190	1170	(12.9)
3.0 m	kg											
10 ft	lb											
2.0 m	kg					*780	*780	520	480	340	310	5.11
5 ft	lb					*1720	*1720	1150	1060	750	680	(16.8)
1.0 m	kg					800	720	500	450	330	300	5.18
5 ft	lb					1760	1590	1100	990	730	660	(17.0)
Ground	kg			1510	1330	750	680	480	430	340	310	4.98
Line	lb			3330	2930	1650	1500	1060	950	750	680	(16.3)
-1.0 m	kg	*2100	*2100	1520	1340	750	670	480	430	420	380	4.45
-5 ft	lb	*4630	*4630	3350	2950	1650	1480	1060	950	930	840	(14.6)
-2.0 m	kg			*1520	1380	770	700					
-5 ft	lb			*3350	3040	1700	1540					











- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located (standard equipment) on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

# Lifting capacity











## R35Z-9A

 Rating over-front  Rating over-side or 360 degree

Boom : 2.50 m (8' 2") / Arm : 1.60 m (5' 3") / Bucket : 0.11 m<sup>3</sup> SAE heaped / Dozer Down : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		Reach m (ft)
												
4.0 m	kg									*480	460	4.35
15 ft	lb									*1060	1010	(14.3)
3.0 m	kg							*510	*510	*490	340	5.06
10 ft	lb							*1120	*1120	*1080	750	(16.6)
2.0 m	kg							*580	500	*510	290	5.40
5 ft	lb							*1280	1100	*1120	640	(17.7)
1.0 m	kg			*1940	1460	*1000	760	*710	470	*530	280	5.47
5 ft	lb			*4280	3220	*2200	1680	*1570	1040	*1170	620	(17.9)
Ground	kg			*1710	1380	*1240	710	*810	450	*550	290	5.28
Line	lb			*3770	3040	*2730	1570	*1790	990	*1210	640	(17.3)
-1.0 m	kg	*1740	*1740	*2380	1380	*1270	690	*810	440	*560	340	4.80
-5 ft	lb	*3840	*3840	*5250	3040	*2800	1520	*1790	970	*1230	750	(15.7)
-2.0 m	kg	*2470	*2470	*1820	1410	*1020	710					
-5 ft	lb	*5450	*5450	*4010	3110	*2250	1570					

Boom : 2.50 m (8' 2") / Arm : 1.60 m (5' 3") / Bucket : 0.11 m<sup>3</sup> SAE heaped / Dozer Up : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		Reach m (ft)
												
4.0 m	kg									*480	450	4.35
15 ft	lb									*1060	990	(14.3)
3.0 m	kg							*510	500	360	330	5.06
10 ft	lb							*1120	1100	790	730	(16.6)
2.0 m	kg							530	480	310	280	5.40
5 ft	lb							1170	1060	680	620	(17.7)
1.0 m	kg			1580	1400	810	730	500	460	290	270	5.47
5 ft	lb			3480	3090	1790	1610	1100	1010	640	600	(17.9)
Ground	kg			1490	1310	750	680	470	430	310	280	5.28
Line	lb			3280	2890	1650	1500	1040	950	680	620	(17.3)
-1.0 m	kg	*1740	*1740	1500	1310	730	660	460	420	360	330	4.80
-5 ft	lb	*3840	*3840	3310	2890	1610	1460	1010	930	790	730	(15.7)
-2.0 m	kg	*2470	*2470	1530	1350	750	680					
-5 ft	lb	*5450	*5450	3370	2980	1650	1500					

- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located (standard equipment) on the back of the bucket.
- (\*) Indicates the load limited by hydraulic capacity.

## STANDARD EQUIPMENT

ISO standard cabin -Cabin ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117) -All-weather steel cab with all-around visibility -Safety glass windows -Sliding fold-in front window -Sliding side window -Lockable door	-Accessory box -Centralized monitoring -Gauges Fuel level gauge Engine coolant temperature gauge -Warning Quick clamp Engine oil pressure Engine coolant temperature	Preheat Low battery Air cleaner clogging Fuel empty -Door and locks, one key -Mechanical suspension seat with seat belt -Radio / USB Player -Console box tilting system(LH.) -One front working lights	Electric horn -Battery (1 x 12 V x 80 AH) -Battery master switch -Automatic swing brake -Removable reservoir tank -Water separator, fuel line -Mono boom (2.5 m, 8' 2") -Arm (1.3 m, 4' 3") -Rubber shoe (300mm, 12") -Single acting piping (Breaker, etc)	-Double acting piping (Clamshell, etc) -Auto idle function -Water proof start key -Anti theft function -Emergency stop switch -Auto travel shift down travel motor
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## OPTIONAL EQUIPMENT

ISO standard canopy -Canopy ROPS(ISO 3471) FOPS(ISO 3449) TOPS(ISO 12117) -Beacon lamp	-Cabin lamp -Accumulator, work equipment lowering -Travel alarm -Quick coupler	-Tool kit -Operator suit -Heater & Defroster -Lever pattern change valve -Steel shoe (300mm, 12")	-Air conditioner -Long Arm (1.6m) -Additional CWT (150kg, 330lb) -RCV with proportional control switch -Rotating piping	-SLV (safety lock valve)
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\* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

\* The photos may include attachments and optional equipment that are not available in your area.

\* Materials and specifications are subject to change without advance notice.

\* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



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