



State of West Virginia
Request For Quotation
Construction

Procurement Folder : 636978

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

Procurement Type : Agency Purchase Order

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

SUBMIT RESPONSES TO:	VENDOR
BID RESPONSE DIVISION OF NATURAL RESOURCES PROPERTY & PROCUREMENT OFFICE 324 4TH AVE SOUTH CHARLESTON WV 25303-1228 US	Vendor Name, Address and Telephone West Virginia Tractor Company P.O. Box 473 Charleston, WV 25322 304-346-5301

FOR INFORMATION CONTACT THE

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

Signature X

FEIN #

550621655

DATE

11-11-19

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

ADDITIONAL INFORMATION:

Addendum

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

INVOICE TO		SHIP TO	
SUPERINTENDENT DIVISION OF NATURAL RESOURCES WATTERS SMITH MEMORIAL STATE PARK PO BOX 296 LOST CREEK WV26385-0296 US		SUPERINTENDENT DIVISION OF NATURAL RESOURCES WATTERS SMITH MEMORIAL STATE PARK 831 RR 3 LOST CREEK WV 26385 US	

Line	Commodity Line Description	Qty	Unit Issue	Unit Price	Total Price
1	Compact Excavator	1.00000	EA		

Commodity Code	Manufacturer	Model #	Specification
22101524			

Extended Description

Compact Excavator

SCHEDULE OF EVENTS

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

**SOLICITATION NAME: Watters Smith Memorial State Park
Compact Excavator (ARFQ DNR20*18)
Addendum Number: No. 01**

The purpose of this addendum is to modify the solicitation identified above to reflect the change (s) identified and described below.

Applicable Addendum Category:

- Modify bid opening date and time
- Modify specifications of product or service being sought
- Attachment of vendor questions and responses
- Attachment of pre-bid sign-in sheet
- Correction of error
- Other

Description of Modification to Solicitation:

1. To publish Vendor Questions and Answers.
2. To change Bid Due Date to 11/12/19 at 1:30pm EST.

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

Terms and Conditions:

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

ADDENDUM ACKNOWLEDGEMENT FORM
SOLICITATION NO.: ARFQ DNR20*18

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

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

Addendum Numbers Received:


(Check the box next to each addendum received)

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

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

West Virginia Tractor Company

Company


Authorized Signature

11-11-19

Date

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

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.

 Gary W. Grady, 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)

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

Gary W. Grady, President

(Printed Name and Title of Authorized Representative)

11-11-19

(Date)

304-346-5301 304-346-5305

(Phone Number) (Fax Number)

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: 11-11-19

Title: President

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

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: *Graupe* Date: 11-11-19

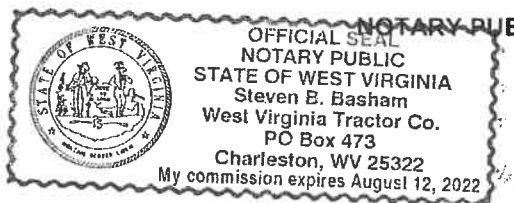
State of West Virginia

County of Kanawha, to-wit:

Taken, subscribed, and sworn to before me this 11 day of November, 2019

My Commission expires August 12, 2022

AFFIX SEAL HERE



Steven B. Basham

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

Item	Description	Brand / Model	Quantity	Unit Price
1	Compact Excavator, Bobcat E32R or equal:	HYUNDAI R35Z-9a	1	\$43,990.00



Authorized Signature

11-11-19

Date

Robex

35Z-9A

With Tier 4 Final Engine installed

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



*Photo may include optional equipment.

 **HYUNDAI**
CONSTRUCTION EQUIPMENT AMERICAS, INC.

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.

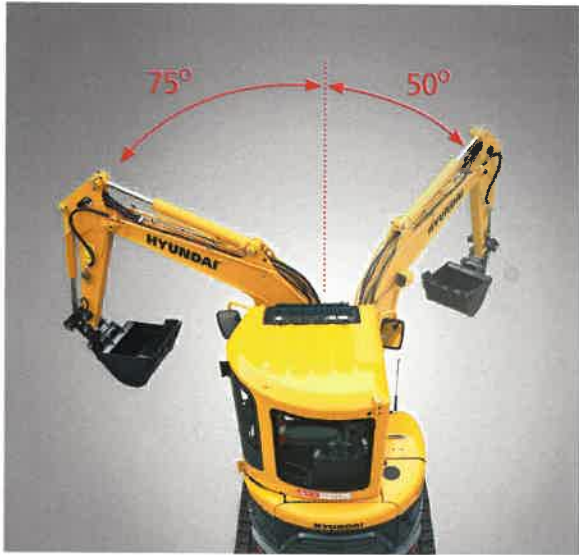


*Photo may include optional equipment.

PRECISION

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





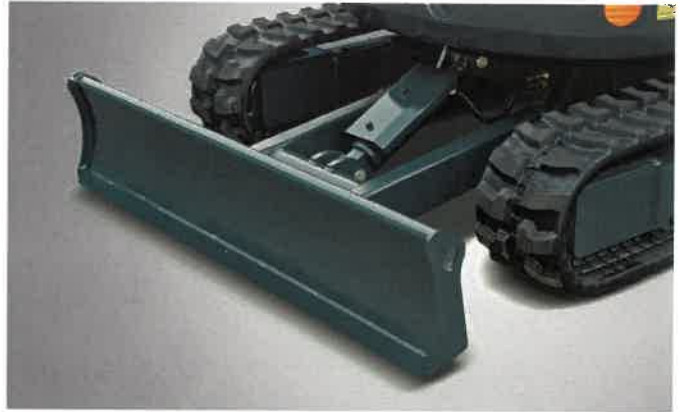
Boom Swing

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.



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.)



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.



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 MoS₂ 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.



*Photo 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.



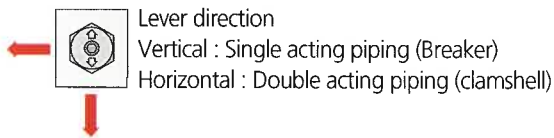
Centralized Grease Fittings

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.



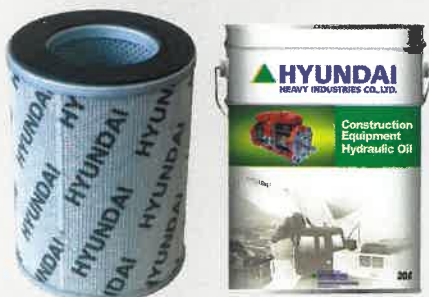
Easy Access

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 ³)		
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 ² (3,270 psi)		
Travel circuit	230 Kg/cm ² (3,270 psi)		
Swing circuit	200 Kg/cm ² (2,840 psi)		
Pilot circuit	30 Kg/cm ² (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		
Pilot control	Two joysticks with one safety lever (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 m³ (0.14 yd³) 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 ² (4.83psi)	0.35 kg/cm ² (4.98psi)
	Canopy 0.33 kg/cm ² (4.69psi)	0.33 kg/cm ² (4.69psi)

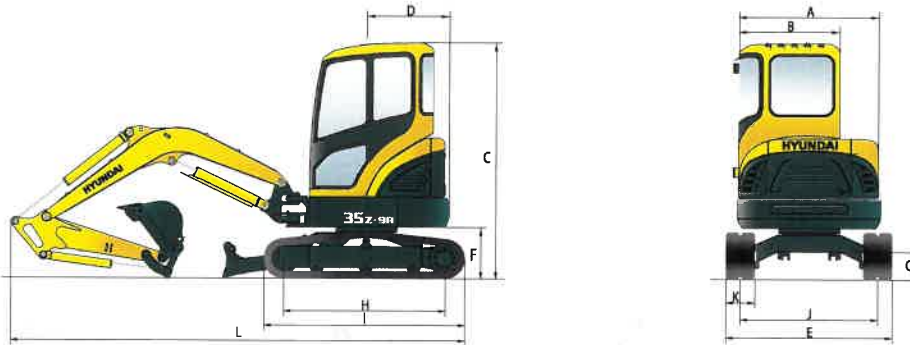
UNDERCARRIAGE

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

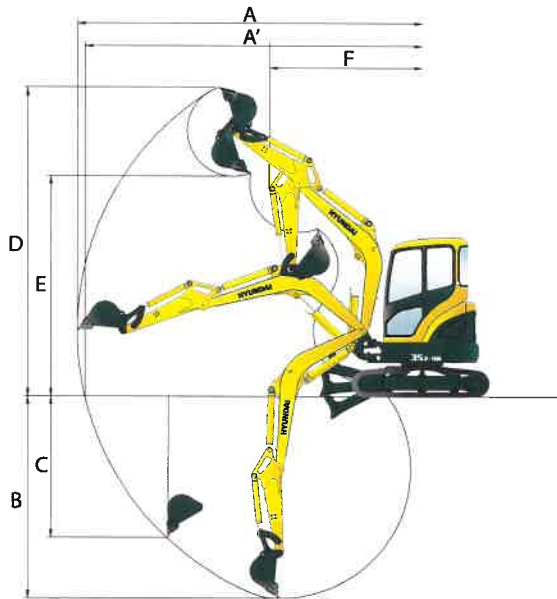
R35Z-9A DIMENSIONS



		mm (ft-in)		
A	Overall width of upper structure	1,500 (4' 11")	G Ground clearance	290 (0' 11")
B	Overall width of cab	1,050 (3' 5")	H Tumbler distance	1,700 (5' 7")
C	Overall height of cab	2,500 (8' 2")	I Track length	2,130 (7' 10")
D	Tail swing radius	870 (2' 10")	J Track gauge	1,440 (4' 9")
E	Overall width	1,740 (5' 9")	K Track shoe width	300 (1' 0")
F	Clearance under counterweight	540 (1' 9")	L Overall length	1,300Arm 4,790 (15' 9") 1,600Arm 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")
A Max. digging reach	5,315 (17' 5")	5,605 (18' 5")
A' Max. digging reach at ground	5,200 (17' 1")	5,495 (18' 0")
B Max. digging depth	3,135 (10' 3")	3,440 (11' 3")
C Max. vertical wall digging depth	2,190 (7' 2")	2,565 (8' 5")
D Max. digging height	4,810 (15' 9")	5,010 (16' 5")
E Max. dumping height	3,425 (11' 3")	3,615 (11' 10")
F Min. swing radius	2,350 (7' 9")	2,330 (7' 8")

Lifting capacity










R35Z-9A

 Rating over-front  Rating over-side or 360 degree

Boom : 2.50 m (8' 2") / Arm : 1.30 m (4' 3") / Bucket : 0.11 m³ SAE heaped / Dozer Down : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		Reach m (ft)
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		
												
4.0 m	kg									*540	*540	3.94
15 ft	lb									*1190	*1190	(12.9)
3.0 m	kg						*600	510		*540	390	4.74
10 ft	lb						*1320	1120		*1190	860	(15.6)
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 m³ SAE heaped / Dozer Up : 300mm(12") Rubber track Canopy Type W/O ADD CWT

Load point height m(ft)		Load radius								At max. reach		Reach m (ft)
		1.0 m(5 ft)		2.0 m(5 ft)		3.0 m(10 ft)		4.0 m(15 ft)		Capacity		
												
4.0 m	kg									*540	530	3.94
15 ft	lb									*1190	1170	(12.9)
3.0 m	kg						540	490		410	370	4.74
10 ft	lb						1190	1080		900	820	(15.6)
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 m³ 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 m³ 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	·Accessory box	Preheat	·Electric horn	·Double acting piping (Clamshell, etc)
·Cabin ROPS(ISO 3471)	·Centralized monitoring	Low battery	·Battery (1 x 12 V x 80 AH)	·Auto idle function
FOPS(ISO 3449)	·Gauges	Air cleaner clogging	·Battery master switch	·Water proof start key
TOPS(ISO 12117)	Fuel level gauge	Fuel empty	·Automatic swing brake	·Anti theft function
·All-weather steel cab with	Engine coolant temperature	·Door and locks, one key	·Removable reservoir tank	·Emergency stop switch
all-around visibility	gauge	·Mechanical suspension seat	·Water separator, fuel line	·Auto travel shift down travel motor
·Safety glass windows	·Warning	with seat belt	·Mono boom (2.5 m, 8' 2")	
·Sliding fold-in front window	Quick clamp	·Radio / USB Player	·Arm (1.3 m, 4' 3")	
·Sliding side window	Engine oil pressure	·Console box tilting system(LH.)	·Rubber shoe (300mm, 12")	
·Lockable door	Engine coolant temperature	·One front working lights	·Single acting piping (Breaker, etc)	

OPTIONAL EQUIPMENT

ISO standard canopy	·Cabin lamp	·Tool kit	·Air conditioner	·SLV (safety lock valve)
·Canopy ROPS(ISO 3471)	·Accumulator, work equipment	·Operator suit	·Long Arm (1.6m)	
FOPS(ISO 3449)	lowering	·Heater & Defroster	·Additional CWT (150kg, 330lb)	
TOPS(ISO 12117)	·Travel alarm	·Lever pattern change valve	·RCV with proportional control switch	
·Beacon lamp	·Quick coupler	·Steel shoe (300mm, 12")	·Rotating piping	

* 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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