

State of West Virginia Department of Administration Quotation Purchasing Division 2019 Washington Street East Post Office Box 50130 Charleston, WV 25305-0130

Request for

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707EC020

ADDRESS CORRESPONDENCE TO ATTENTION OF

JOHN JOHNSTON 304-558-2402

VENDOR

***413083743 01** 304-755-7788 RUDD EQUIPMENT COMPANY PO BOX 610

NITRO WV 25143 DIVISION OF HIGHWAYS **EQUIPMENT DIVISION** ROUTE 33 **BRUSHY FORK ROAD** BUCKHANNON, WV 26201

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FEIN

VICE PRESIDENT

61-0445595

NITRO WV 25143

DIVISION OF HIGHWAYS
EQUIPMENT DIVISION
ROUTE 33
BRUSHY FORK ROAD
BUCKHANNON, WV
26201 304-472-1750

FREIGHT TERMS DATE PRINTED TERMS OF SALE SHIP VIA F.O.B. 03/07/2007 NET 30 DAYS BESTWAY BUCKHANNON PREPAID BID OPENING DATE: 04/11/2007 BID OPENING TIME 01:30PM QUANTITY LINE UOP ITEM NUMBER UNIT PRICE AMOUNT ORDERED FOR DELIVERY DURING THE TERM OF CONTRACT, WHETHER MORE OR LESS THAN THE QUANTITIES SHOWN. ORDERING PROCEDURE: SPENDING UNIT(S) SHALL ISSUE A WRITTEN EQUIPMENT CONTRACT ORDER (FORM NUMBER WV-35) FOR COMMODITIES COVERED BY THIS CONTRACT. THE ORIGINA WV-35 MUST BE SENT TO THE PURCHASING DIVISION OF THE DEPARTMENT OF ADMINISTRATION. AFTER APPROVAL AND ENCUMBRANCE, ONE COPY OF THE PURCHASE ORDER WILL BE RETURNED TO THE SPENDING UNIT AND ONE COPY FOR-WARDED TO THE VENDOR AS AUTHORIZATION FOR SHIPMENT. NO ORDER IS VALID UNLESS APPROVED AND ENCUMBERED BY THE PURCHASING DIVISION. BANKRUPTCY: IN THE EVENT THE VENDOR/CONTRACTOR FILES FOR BANKRUPTCY PROTECTION, THIS CONTRACT IS AUTOMATI-CALLY NULL AND VOID, AND IS TERMINATED WITHOUT FURTHER ORDER. REV. 9/98 EXHIBIT 6 PRICE ADJUSTMENT PROVISION: THE STATE OF WEST VIRGINIA WILL CONSIDER BIDS THAT CONTAIN PROVISIONS FOR PRICE ADJUSTMENTS PRIOR TO THE ORIGINAL EXPIRATION OF THE CONTRACT, PROVIDED THAT SUCH PRICE ADJUSTMENT COVERS BOTH UPWARD AND DOWNWARD MOVEMENT OF THE COMMODITY PRICE, AND THAT ADJUSTMENT I BASED ON THE "PASS THROUGH" INCREASE OR DECREASE OF RAW MATERIALS AND/OR LABOR, WHICH MAKE UP ALL OR A SUBSTANTIAL PART OF A PRODUCT. ADJUSTMENTS ARE TO BE BASED UPON AN ACTUAL DOLLAR FIGURE, NOT A PERCENTAGE. ALL PRICE ADJUSTMENT REQUESTS MUST BE SUBSTANTIATED IN MANNER ACCEPTABLE TO THE DIRECTOR PURCHASING, E.G. SEE REVERSE SIDE FOR TERMS AND CONDITIONS: SIGNATURE TELEPHONE DATE 5 304-755-7788 5/9/07



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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

PROCUREMENT SPECIFICATIONS NO. 351-2-F

OPEN END CONTRACT SKID STEER LOADER WITH ATTACHMENTS

1.0 PURPOSE

It is the purpose of these specifications to describe a Skid Steer Loader with Attachments Including Costs (hereinafter referred to as a "unit") to be purchased for use by the West Virginia Division of Highways (DOH) on an Open End Contract basis.

2.0 BIDDING PROCEDURES

The current purchasing procedures regarding bidding as established by the Department of Administration, Purchasing Division, shall apply. Failure to submit the "Request for Quotation" forms, complete in its entirety and according to directions indicated, may subject the bidder to disqualification. Each bid submitted shall also be accompanied by a Bidder's Evaluation Report completed in detail. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report. FAILURE TO SUBMIT THE BIDDER'S EVALUATION REPORT, COMPLETE IN ITS ENTIRETY, MAY RESULT IN AUTOMATIC DISQUALIFICATION.

3.0 SPECIFICATIONS

The specifications named herein, mandatory and non-mandatory, establish the acceptable level of quality only and are not intended to reflect a preference or favor any particular brand or vendor.

3.1 EXCEPTIONS TO NON-MANDATORY SPECIFICATIONS

Exception to a non-mandatory unit specification may be made by the bidder, providing the exception is not available from the manufacturer. Any such exception must be noted on the bidder's evaluation report and should be accompanied by supporting documentation/literature from the manufacturer. Any exception must be indicated on a separate attachment to the bidder's evaluation report and labeled as "Exception to Specifications". The state reserves the right to determine whether the stated exception does or does not reduce the quality and performance of the unit. Failure to provide information for any exceptions may be grounds for rejection of the bid. The state reserves the right to waive minor irregularities in bids or specifications in accordance with §148-1-4(f) of the WV Legislative Rules and Regulations.

3.2 MANDATORY SPECIFICATIONS

All specifications preceded by "shall and/or must" or are stated as a "minimum and/or maximum" are mandatory. Any bid failing to meet any mandatory item shall be immediately disqualified. Failure to respond in the appropriate evaluation section may also be grounds for immediate disqualification at the discretion of the State.

A mandatory pre-bid conference is scheduled for this equipment purchase as stated in the RFQ. Vendors having products with variations or exceptions in specified mandatory items are expected to address any such variations or exceptions during the pre-bid conference. The State shall review and consider any such variation or exception, and may at its sole discretion, issue an addendum to change mandatory specifications deemed to be in the State's best interest. Bids from any vendor failing to attend the mandatory pre-bid shall be disqualified. Bids containing any variation or exception to a mandatory specification that was not addressed during the pre-bid conference and accepted by the issuance of an Addendum shall be disqualified.

4.0 REPRESENTATIVE UNIT FOR TEST

The successful vendor must (if specified) provide DOH one (1) completed representative 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 shall be cause for cancellation of the purchase order, and return of the delivered unit along with all associated equipment to the vendor at the vendors expense.

4.1 CONDITION OF UNIT(S) UPON DELIVERY

All units must arrive at the prescribed delivery point having been completely preserviced 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.

4.2 DELIVERY

Delivery point of the completely assembled representative unit will be the DOH, Equipment Division, Route 33 at Brushy Fork Road, Buckhannon, West Virginia (26201).

The vendor is responsible for guaranteeing delivery of the completed units within the time specified and agreed to by the State. Delivery is preferred within 90 days. The vendor is responsible for establishing and coordinating delivery terms with allied manufacturers or suppliers. Delivery terms shall be stated in the bid and the State reserves the right to accept or negotiate such terms. Failure to reach an agreement may result in rejection of the bid. The successful bidder shall provide their manufacturer's confirmation of the order to the WVDOH contact person within seven (7) working days after receiving the approved purchase order.

A completed pilot model for inspection must be provided within 45 calendar days after the date of the purchase agreement by the successful vendor.

Delivery is an integral part of this specification and failure to comply will be cause to initiate a D.O.T. Administrative Form WV-82, Vendor Performance Form. The WV-82 Form will provide a means of officially notifying the Purchasing Division and the vendor of unsatisfactory performance; such as late deliveries, poor service, inadequate parts supplies, etc.

The decision to initiate subject Form will be at the sole discretion of the D.O.H. Commissioner's established Equipment Review Board.

Issuance of the WV-82 Vendor Complaint Form on unsatisfactory delivery against any vendor will be cause to refuse to consider similar items from those vendors on future Request For Quotations.

(NOTE: Delivery time could be altered due to labor strikes, severe inclement weather conditions, etc.)

5.0 AWARD CRITERIA

5.1 DOH will recommend the award in accordance with the RFQ evaluation criteria described in the requisition. The award shall be made to the lowest unit cost vendor including all attachments that meets or exceeds the specifications.

Prices for the units with attachments shall be in quantities of 1-5, 6-10 and 11 and over. However, for evaluation purposes, we will use quantities 1-5 for loader and all attachments. DOH reserves the right to place multiple orders in any quantity. Orders placed may be with one (1) or all attachments. Attachments may be ordered as needed.

6.0 SPECIFICATIONS AND GUIDELINES - GENERAL

6.1 IDENTIFICATION OF THE UNIT BEING PROPOSED

The bidder must identify the unit by manufacturer, model, series, and year of manufacture, in the bid to enable identification by DOH in the manufacturer's specifications of the proposed unit. The bidder will submit complete descriptive literature of the proposed unit, to establish that the bid is the manufacturer's most current model, including latest engineering improvements, which have been, or will imminently be, regularly advertised and sold on the open market. The unit specified herein and offered to be manufactured after January 1, 2007 and be clearly identified and marked with date of manufacture.

- OPERATING AND SERVICE MANUALS AND PARTS LISTS
 An operator's manual must be included with each unit upon delivery. A "line sheet" (if applicable) and Equipment Preventative Maintenance Questionnaire (as shown in X6.2 of the Bidder's Evaluation Report) must be with pilot unit upon delivery. In addition, there must be 12 service, shop, or maintenance manuals; ten (10) to be distributed to the Districts and two (2) for the Equipment Division. Also, there must be 14 parts manuals; ten (10) to be distributed to the Districts and four (4) for Equipment Division use. CD ROM is preferred in lieu of parts manuals.
- * NOTE: MANUALS SHALL BE DELIVERED UPON COMPLETION OF DELIVERY OF TOTAL UNITS. FAILURE TO DO SO WILL DELAY PAYMENT.

6.3 TRAINING:

Manufacturers and/or dealers will be required to stage a thorough seminar on the subjects of Preventative Maintenance, Operator and Mechanic Training. In order to keep the operators and mechanics updated, the successful vendor shall conduct training with each purchase order against this open end contract. Training is preferred within 2 working days after delivery of the pilot unit on the individual purchase order.

Manufacturers and/or dealers shall be required to furnish the Training Academy with one (1) Operator's Manual to be shipped direct to Letha Lamb, WVDOH Training Academy, Post Office Box 610, Buckhannon, West Virginia prior to delivery of the pilot.

The seminar to be held at the W. Va. Division of Highways, Equipment Division, Buckhannon, West Virginia.

6.4 PREVENTIVE MAINTENANCE AND OPERATOR PROCEDURES:

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

Preventive 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, etc. required in conducting the training.

6.5 WARRANTY AND SERVICE POLICY

The Manufacturers warranty or service policy is to apply to the unit. Such warranty or service policy is to be recognized at any authorized unit dealer, representing manufacturer of proposed unit throughout the State of West Virginia. The applicable warranty or service policy will not be contingent upon obtaining routine service, lubrication, and servicing of the unit from factory authorized agencies. It will be the responsibility of the bidder to have available labor to repair or replace any defective replacement parts, components and materials, and to have available those replacement parts, components, and/or materials found to be defective during the terms of the warranty period. The bidder should state the labor rates, locations where parts will be stocked, availability of parts, and discounts offered for parts, when terms of the warranty offer a pro-rated cost for parts and labor. In addition, the successful bidder should offer field work to repair or replace defective parts, components, and materials found to be defective during the terms of the warranty and should provide mechanic's travel rates, mileage charges, field mechanic rates, and any surcharge for miscellaneous items, if applicable, for field work during the warranty period. Submit to Division of Highways any technical or engineering improvements during the term of the warranty. The unit must be accompanied upon delivery by the unit's manufacturer's executed warranty or service policy.

A mandatory minimum two (2) year bumper to bumper basic parts and labor warranty is required for this unit including attachments.

THE "WARRANTY AND SERVICE POLICY QUESTIONNAIRE" ATTACHED IN THE BIDDER'S EVALUATION REPORT MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURER PRIOR TO DELIVERY OF THE PILOT MODEL. (SEE SECTION X6.5 OF BIDDER'S EVALUATION REPORT).

6.6 EVALUATION COMMITTEE REQUIREMENTS

Detailed component specifications, product literature, component models, required for specification compliance determination by the Evaluation Committee should be provided with each bid. Any information supplied that is contrary to/or conflicting with the specifications and/or attached Bidders Evaluation Report may be sufficient cause for rejection of bid.

6.7 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.

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. All standard safety features, required by Federal and State Law, shall be included.

7.0 SPECIFICATIONS OF THE QUOTED UNIT ARE AS FOLLOWS:

The unit furnished under this specification shall be of the latest improved model in current production as offered to commercial trade and to be of good quality as to workmanship and material used. This bid represents that all the equipment offered in this advertisement shall be new.

The unit will be completely assembled, adjusted with all equipment including standard and extra equipment installed and ready for continuous operation.

All parts not specifically mentioned which are necessary for the unit to be complete and ready for operation or which are normally furnished as standard equipment shall be included. All parts to conform in strength, quality and workmanship to the accepted standards of the industry. Any variation from these specifications must be indicated on the bid or on a separate attachment to the bid. This sheet must be labeled as such.

- 8.1 Operating weight of skid steer unit shall be a minimum of 6875 lbs.
- 8.2 Wheelbase: 41.8 inches minimum
- 8.3 Diesel Engine:
- 8.3.1 Horsepower (Net) 68 HP minimum
- 8.3.2 Engine pre-heat system shall be provided
- 8.3.3 Manufacturer's recommended fuel filter with water separator to be provided
- Unit shall be equipped with automatic engine shutdown for low oil pressure and engine/hydraulic temperature
- 8.3.5 Dry type air filtration with primary and secondary elements

8.4	Hydraulic System:
8.4.1	Auxiliary hydraulics 19.3 GPM minimum
8.4.2	Unit shall have high flow hydraulic system providing adequate flow and pressure for specified attachments.
8.4.3	Filtration approximately 3 micron
8.4.4	Adequately sized hydraulic reservoir for the prime mover as well as any and all attachments. Must include gallons label and sight gauge.
8.4.5	Hydraulic hoses to be cordorva wrapped for operator protection
8.4.6	Auxiliary front hydraulics with couplers shall be provided with easy access with controls at operation station.
8.5	Electrical System:
8.5.1	Manufacturer's heavy duty 12 volt system
8.5.2	Alternator 70 Amps minimum
8.5.3	Battery to be manufacturers heavy duty maintenance free 12 volt approximately 850 CCA
8.5.4	Work lights, dual front halogen; one rear halogen minimum
8.6	Instrumentation: Shall be provided with audible and/or lighted warnings
8.6.1	Fuel level
8.6.2	Battery voltage
8.6.3	Engine coolant temperature
8.6.4	Transmission charge pressure
8.6.5	Hydraulic oil temperature
8.6.6	Engine oil pressure
8.6.7	Engine air cleaner restriction
8.6.8	Park brake reminder
8.6.9	Seat belt reminder

8.7	Tires:
8.7.1	Manufacturers standard pneumatic lug tires with 12 ply rating
8.8	Safety:
8.8.1	Backup alarm (OSHA approved)
8.8.2	Certified ROPS and FOPS shall be provided
8.8.3	Parking brake manufacturers standard
8.8.4	All manufacturers safety related decals and safe operation recommendations shall be affixed to each unit upon delivery
8.8.5	Rear view mirror shall be provided
8.8.6	Unit shall be equipped with rear window emergency escape
8.8.7	Low profile strobe light must be mounted for 360° visibility (Aero-Flash M-420 or equal)
8.8.8	Front and rear emergency flashers shall be provided
8.8.9	Fire extinguisher bracket
8.9	Accessories:
8.9.1	Quick-Tatch 2 level attachment mounting design compatible with 90% of BobCat, New Holland, John Deere, and Case attachments
8.9.2	Rear counterweights must be provided to adequately balance unit with heaviest attachment mounted.
8.9.3	Vinyl suspension seat with automotive type seat belt shall be provided
8.9.4	Cab-all-weather enclosure with sliding side glasses
8.9.5	Front door with wiper, washer shall be provided
8.9.6	Unit must have manufacturers heater/defroster/with air conditioner
8.9.7	Unit shall be hydrostatic all wheel drive
8.9.8	Integral belly plate

- 8.10 Paint:
- 8.10.1 Manufacturers recommended paint preparation and color to be provided
- 9.0 Attachments with attachment control kit:
- 9.1 All attachments must be mounted on a quick-change mechanism. (Ref. 8.9.1)
- 9.2 Backhoe operation must be possible with the lift arms in the down position.
- 9.3 A remote attachment control device should be available for specified attachments (marked by an "*") to start the loader and operate the attachment from the outside the operator control area.
- 9.4 A single control unit should be provided which will control all available attachments.
- 9.5 The following attachments should be available:
- 9.5.1 Angle Broom*
- 9.5.2 Auger
- 9.5.3 Backhoe
- 9.5.4 Bale Fork
- 9.5.5 Box Blade
- 9.5.6 Box Blade with Laser Receiver*
- 9.5.7 Breaker
- 9.5.8 Brush Saw
- 9.5.9 Brushcat Rotary Cutter
- 9.5.10 Buckets
- 9.5.10.1 Construction 325
- 9.5.10.2 Construction 78 inch HD
- 9.5.10.3 Construction 84 inch HD
- 9.5.10.4 Foundry 72 inch
- 9.5.10.5 Foundry 78 inch HD
- 9.5.10.6 Manure/Slurry 72 inch
- 9.5.10.7 Manure/Slurry 84 inch
- 9.5.10.8 Multi-Purpose 72 inch
- 9.5.10.9 Multi-Purpose 78 inch
- 9.5.10.10 Multi-Purpose 84 inch
- 9.5.10.11 Tooth 72 inch
- 9.5.10.12 Tooth 78 inch HD
- 9.5.10.13 Tooth 84 inch HD
- 9.5.10.14 Utility 72 inch
- 9.5.10.15 Utility 78 inch HD
- 9.5.10.16 Utility 84 inch HD
- 9.5.11 Chipper*
- 9.5.12 Combination Bucket
- 9.5.13 Concrete Mixer*

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9.5.14	Concrete Pump
9.5.15	Digger
9.5.16	Dozer Blade
9.5.17	Drop Hammer
9.5.18	Dumping Hopper
9.5.19	Flail Cutter
9.5.20	Forks, Utility
9.5.21	Grader
9.5.22	Grapple, Industrial
9.5.23	Grapple, Root
9.5.24	Hydraulic Breaker
9.5.25	Landplane
	~
9.5.26	Landscape Rake
9.5.27	Mower
> . .	Packer Wheel
9.5.29	Pallet Fork – Heavy Duty
9.5.30	Pallet Fork – Hydraulic
9.5.31	Planer:
9.5.31.1	Standard*
9.5.31.2	Curb*
9.5.31.3	High Flow*
9.5.32	Scarifier
9.5.33	Scraper
9.5.34	Seeder
9.5.35	Snowblade
9.5.36	Snow B-Blade*
9.5.37	Snowblower*
9.5.38	Sod Layer
9.5.39	Soil Conditioner:
9.5.39.1	Manual*
9.5.39.1	Hydraulic*
	· ·
9.5.40	Spreader
9.5.41	Stabilizer
9.5.42	Stump Grinder*
9.5.43	Sweeper
9.5.44	Three-Point Hitch
9.5.45	Tiller
9.5.46	Tracks, steel
9.5.47	Tree Spade*
9.5.48	Trench Compactor
9.5.49	Trencher
9.5.50	Utility Frame
9.5.51	Vibratory Roller
9.5.52	Water Kit
9.5.53	Wheel Saw
9.5.54	Whisker Broom
7.J.JT	14 HISKOL DIOOTII

- Vendor must certify that unit offered will meet or exceed the "Occupational Safety And Health Act of 1970" or subsequent changes that are in effect at time of manufacturer of unit.
- Advertising: Only one (1) manufacturer name plate, which must include model number, may appear on exterior of unit. Logos created through the stamping or casting process of manufacturer are also acceptable. No logo will interfere with the Department's striping and logo.
- 12.0 Preventive Maintenance and Operators Orientation/Training:
- The manufacturer or dealer shall provide a minimum of one (1) day preventive maintenance/operator orientation seminar to be conducted at the Equipment Division, Buckhannon. All training aids; i.e., videos, charts, manuals, etc. to be furnished by successful vendor. The successful vendor shall furnish all training aids; i.e. videos, projectors, etc. required in conducting the training.

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS EQUIPMENT DIVISION

Vendors should type the Bidder's Evaluation Report BIDDER'S EVALUATION REPORT

Reference Requisition No.: 707FC020

PROCUREMENT SPECIFICATIONS FOR OPEN END CONTRACT NO. 351-2-F

SKID STEER LOADER WITH ATTACHMENTS

NOTE TO BIDDER: Procurement Specification No. 351-2-F, Paragraph 2.0 recommends the completion and submittal of this Report with your bid. Purpose of this Report is to enable the West Virginia Division of Highways Evaluation Committee to make full and fair evaluation of the bid. Addendums in order, along with exception sheets, should be with Bidder's Evaluation Report.

FAILURE TO SUBMIT THIS REPORT, COMPLETE IN ITS ENTIRETY, MAY SUBJECT THE BIDDER TO DISQUALIFICATION.

	Bidder's Name: RUDD EQUIPMENT COMPANY	·	
	Address: P.O. BOX 610 NITRO, WV 25143		
	Telephone Number: 304-755-7788		
	Years Bidder has been registered to do business with the State of West Virginia:	21	_YRS.
	Years Company has been an authorized dealer for proposed unit:	5	_YRS.
X4.2 X4.2.1	DELIVERY: Delivery date of completed representative unit: 10 DAYS Calendar Days Purchase Agree		
X4.2.2	Delivery date of balance of completed units: 30-60 DAYS Calendar Days A	fter Date of	ment

X5.0	AWARD CRITERIA;			
X5.1	Price for loader only in quantities of	1-5 6-10 11 and over	\$ 30,530.00 per unit 30,530.00 per unit 30,530.00 per unit	
	Prices for loader and all attachments in quantities of	1-5 6-10 11 and over	\$340,834.93 per uni 340,834.93 per uni 340,834.93 per uni	it
X6.0 X6.1	SPECIFICATIONS - GENERAL Manufacturer, model, series, and date of manufacture of	proposed unit:		
	VOLVO MC90B 2007			
	Is descriptive literature, fully describing proposed unit a	ttached to your b	id? _ x YES _ NO	
	If not, why?			
X6.2	Will the required number of service manuals, and comp Division at Buckhannon upon completion of delivery of	lete parts list be d total units?	elivered to the Equipment X YESNO	
	Will the required Equipment Preventive Maintenance For the provided upon inspection of the pilot unit?	orm (Section X6.2	2 of Bidders Evaluation Repo	ort)

EQUIPMENT PREVENTATIVE MAINTENANCE QUESTIONNAIRE

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

DESCRIPT	TON:			MAKE:				
M	ODEL:		YEAR:	PUR	CHASE AMOUNT	:		
ENGINE:	MAKE:		MODEL:		FUEL TYPE: _			
	COOLING SYSTI	EM CAPACITY:						
		**************************************		PART NUMB	ERS:			
BELTS:			·					
GVW:		AXLE CAPAC	TTY: FRONT: _			REAR:		
TIRES:	FRONT MAKE &	SIZE:						
	REAR MAKE & S	SIZE:						
DIMENSIO	ONS OF UNIT:	LENGTH:		WIDTH:		LENGTH:		
VENDOR	CONTACT PERSO	V:			PHONE:			
PARTS:								
DATTEDV	7 \ 		MODEL:		CCA:	HEIGHT		
TOP OR S	IDF POST:		DIMENSION	S: LENGTH	WIDTH	HEIGHT		
SPARK PI	LUGS OR FUEL INJ	ECTORS MAKE:		1711(1111				
FUEL PUN	MP OR INJECTION	PUMP MAKE:		MODEL:				
ALTERNA	ATOR MAKE:			- PART #:				
STARTER	MAKE:			PART #:				
TURBO C	HARGER MAKE: _	1.000	TT	PAK! #:	ATTO/MANTIA	.T • .		
TRANS. M	IAKE: LIC PUMP MAKE:	MOD	EL:	MODEL:	AOTOMMINO	ıL:		
	MAKE							
FILLERS	WARE	17001110.						
OIL			ENG	INE				
AIR INNE	ER		TRA					
AIR OUT	ER IMARY CONDARY		POW	ER SIEEKING				
FUEL PRI	MARY		HYD	KAULIC				
			DIFF	'EKENIIALS				
COOLAN	T		BRA					
	LIC							
OTHER			UIH	EK				

X6.3	TRAINING:		
	Will training seminar be conducted on Preventive Maintenance, Operator and MYES _	echanic T NO	raining
	Will you conduct training with each purchase order against this open end contract ————————————————————————————————————	ot? _YES	NO
	Will training be conducted within 2 working days from the delivery of the pilot a purchase order?	init on the YES	individual NO
	If NO, explain time frame	***	
	Will an Operator's Manual be furnished directly to Letha Lamb, Training Acade of the pilot?	my prior t YES	o the delivery NO
X6.4	If you are the successful vendor, will you furnish all training aids, i.e., videos, pr conducting the training? YESNO	ojectors, 1	equired in
X6.4.1	Will all manuals, booklets, etc. explaining preventive maintenance, operator schedule be delivered with each unit? YES If NO, explain	procedure NO	s, and service
X6.5	WARRANTY AND SERVICE POLICY		
	Will the warranty and service you provide comply with all areas as stated in Section YESNO	tion 6.5 of	specifications
-	Is warranty literature attached? YESYES _	NO	•
	Is a minimum two (2) year bumper to bumper basic parts and labor warranty inclattachments? YES _ Describe:		unit and

X6.5 WARRANTY AND SERVICE POLICY QUESTIONNAIRE

THIS FORM MUST BE COMPLETED IN ITS ENTIRETY BY THE SUCCESSFUL BIDDER OR MANUFACTURERS TECHNICAL REPRESENTATIVE PRIOR TO DELIVERY OF PILOT MODEL TO THE WVDOH (If additional lines are needed, make copies of form.)

1. De	efine the terms of the stan	lard warranty.	If not offered, so state. (Atta	ch copy)
-				
2. Do	efine warranty service to bufacturer's representative	e performed a facility. List r	nt DOH facilities and warranty name and location of manufact	service to be performed at urer's representative.
3. Li	st locations for parts inve	ntories that are	within the State of West Virgi	nia. Also, list availability levels, if
knov				
	aring the term of warranty er will sell the parts to ow		intee discount to manufacturer	s published list price for parts that
A. B. C.	Terms: Net 60	Manufacturer's	s published list price less:s published list price less:s published list price less:	% discount
	aring the term of warranty ways?	, will all manu	afacturers or engineering impro	vements be submitted to Division of NO
6. Di	ring the term of warranty	, list the guara	enteed rates charged for repair	to the unit.
A.	Shop Rate	\$	per mechanic hour	
В.	Travel Time Charge (Specify if one-way)	\$	per mechanic hour ; port to port	_
C.	Mileage Charge (Specify if one-way	\$	per vehicle mile ; port to port	-
D.	Field Mechanic Rate	\$	per mechanic hour	
E.	Specify period of time	that prices are	in effect:	
F	Surcharge for miscella	neous items:	%	

X6.5	EVALUATION COMMITTEE REQUIREMENTS
	Is all component specifications, product literature, component models provided for Evaluation Committee bid determination? YES NO
X6.7	Will all parts, equipment, accessories, material, design and performance characteristics not specified herein, but which are necessary to provide a complete unit, be furnished with the unit and conform in strength, quality of material, and quality of workmanship to those which are advertised and provided to the market in general by the unit industry? YESNO
X6.7.1	Are all parts and accessories adequate and regularly supplied as standard to be included except those which may be duplications of specifications herein, and except these by specification are not to be furnished?
X6.7.2	Are all standard safety features that are required by Federal and State statutes of law included?
X 7.0	SPECIFICATIONS OF THE QUOTED UNIT The bidder should complete the following schedule in order for the Division to compare the actual bid unit to the specifications. Should the bidder except a requirement, then such exception may be only on the basis that such feature is not offered by the manufacturer. The Division will have the sole discretion as to whether the bidder's substitution meets the requirements of the specifications.
	Manufacturer: VOLVO Model: MC90B
	Will the unit be completely assembled, adjusted with all equipment including standard and extra equipment installed and ready for continuous operation YES NO
	Are all parts not specifically mentioned which are necessary for the unit to be complete and ready for operation or which are normally furnished as standard equipment be included?X_YESNO
X8.1	Operating weight of skid steer unit: 6,985 lbs.
X8.2	Wheelbase: 43.6 inches
X8.3	Diesel Engine:
X8.3.1	Horsepower (Net): 80.5 HP
X8.3.2	Is engine pre-heat system provided X_YES NO
X8.3.3	Is manufacturer's recommended fuel filter with water separator provided? x YES NO
	Manufacturer: Volvo

X8.3.4	Is unit equipped with automatic engine shutdown for low oil temperature		sure and o _YES	
X8.3.5	Dry type air filtration with primary and secondary elements _	X	YES	NO
X8.4 Hyd	Iraulic System:			
X8.4.1	Auxiliary hydraulics: 20.3 GPM			
X8.4.2	Does unit have high flow hydraulic system providing adequa attachments	te flo	ow and pr _YES	ressure for specifiedNO
X8.4.3	Filtration: 8 micron			
X8.4.4	Adequately sized hydraulic reservoir for the prime mover as	well	as any ar YES	nd all attachmentsNO
	Is gallons label and sight gauge included	X	YES	NO
X8.4.5	Are hydraulic hoses cordorva wrapped for operator protection	n	X_`	YESNO
X8.4.6	Are auxiliary front hydraulics with couplers provided with eastation	isy a	ccess with YES	h controls at operatorNO
X8.5 Elec	etrical System:			
X8.5.1	Manufacturers heavy duty 12 volt system X YES	NO	Manufac	turer:
X8.5.2	Alternator: 70 amps			
X8.5.3	Battery manufacturers heavy duty maintenance free 12 volt _	Х	YES	NO CCA:
X8.5.4	Work lights, dual front halogen; at least one rear halogen _	Х	YES	NO
X8.6 Inst	rumentation: Audible and/or lighted warnings YES	N	O	
X8.6.1	Fuel level <u>x</u> YES NO			
X8.6.2	Battery voltage <u>x YES NO</u>			•
X8.6.3	Engine coolant temperatureX YESNO			
X8.6.4	Transmission charge pressure X YES NO			
X8.6.5	Hydraulic oil temperature <u>x</u> YES NO			
X8.6.6	Engine oil pressure X YESNO			
¥8 6 7	Engine air cleaner restriction y YES NO		4	

X8.5.8	Park brake reminder	X	YES	NO			
X8.5.9	Seat belt reminder	X	_YES	NO			
X8.7 Tires	5:						
X8.7.1	Manufacturers standard pneu	matic	lug tires w	vith 12 ply rating	X	YES	_ NO
	Manufacturer: TITAN						
X8.8 Safet	ty:			-			
X8.3.1	Backup alarm (OSHA approv	ved)			X	YES	NO
X8.8.2	Certified ROPS and FOPS				X	YES	_NO
X8.8.3	Parking brake manufacturers	standa	ırd		X	YES	_NO
X8.8.4	All manufacturers safety relat	ed dec	cals and sa	afe operation recom			
	upon delivery				X	YES	NO
X8.8.5	Rear view mirror			1. -	X	YES	_NO
X8.8.6	Equipped with rear window e	merge	ncy escap	е	· X	YES	_NO
X8.8.7	Low profile strobe light mour	nted fo	r 360° visi	bility	<u> </u>	YES	_NO
	Manufacturer/Model: AERO)-FLU	JSH M≏42	20			
X8.8.8	Front and rear emergency flas	hers		*	X	YES	_NO
X8.8.9	Fire extinguisher bracket				XY	YES	_NO
X8.9 Acces	ssories:						
X8.9.1	Quick-Tatch 2 level attachmen John Deere, and Case attachm		ınting desi	gn compatible with		BobCat, N YES	
X8.9.2	Rear counterweights provided	to ade	equately b	alance unit with hea		chment m YES	
X8.9.3	Vinyl suspension seat with au	tomoti	ve type se	at belt	XY	YES	_NO
X8.9.4	Cab-all-weather enclosure wit	h slidi	ng side gla	asses	X_Y	YES	_NO
X8.9.5	Front door with wiper, washer				<u> </u>	YES	_NO
X8.9.6	Does unit have manufacturers	heater	:/defroster/	with air conditione	er <u> </u>	ÆS	_NO

X8.9.7	7	Is unit hydrostatic all wheel drive		_X_	_YES	NO	
X8.9.8	8	Integral belly plate		_X	YES	NO	
X8.10 X8.10	Paint	: Describe manufacturers recommended pair	nt preparation and colo	or:			
		VOLVO YELLOW & GRAY POWDER	COAT				
		·	4				
X9 .0	Attac	hments with attachment control kit:					
X9.1	Are a	ll attachments mounted on a quick-change m	echanism	X	YES	NO	
X9.2	Backl	noe operation possible with the lift arms in th	e down position	X	_YES	NO	
X9.3		emote attachment control device available for and operate the attachment from the outside	-	-	-	-	the
X9.4	Is a si	ngle control unit provided which will control	all available attachme	ents	<u>x</u> Y.	ES	NO
X9.5	Attacl	nments and pricing: NOTE: ALL ATTACH	MENTS PER COST :	SHEETS	S & ADDI	ENDUMS	
X9.5.1		Angle Broom*	X				
X9.5.2	,	Auger	<u>X</u>				
X9.5.3		Backhoe	X				
X9.5.4		Bale Fork	X				
X9.5.5		Box Blade	X				
X9.5.6		Box Blade with Laser Receiver*	X				
X9.5.7		Breaker	X				
X9.5.8		Brush Saw	X				
X9.5.9		Brushcat Rotary Cutter	X				
X9.5.10	0	Buckets:					
X9.5.10	0.1	Construction 325	X				
X9.5.10	0.2	Construction 78 inch HD	X				
X9.5.10	0.3	Construction 84 inch HD	X				

X9.5.10.4	Foundry 72 inch	X
X9.5.10.5	Foundry 78 inch HD	X
X9.5.10.6	Manure/Slurry 72 inch	X
X9.5.10.7	Manure/Slurry 84 inch	X
X9.5.10.8	Multi-Purpose 72 inch	X
X9.5.10.9	Multi-Purpose 78 inch	X
X9.5.10.10	Multi-Purpose 84 inch	x
X9.5.10.11	Tooth 72 inch	X
X9.5.10.12	Tooth 78 inch HD	X
X9.5.10.13	Tooth 84 inch HD	X
X9.5.10.14	Utility 72 inch	X
X9.5.10.15	Utility 78 inch HD	X
X9.5.10.16	Utility 84 inch HD	X
X9.5.11	Chipper*	X
X9.5.12	Combination Bucket	X
X9.5.13	Concrete Mixer*	X
X9.5.14	Concrete Pump	X
X9.5.15	Digger	X
X9.5.16	Dozer Blade	X
X9.5.17	Drop Hammer	X
X9.5.18	Dumping Hopper	X
X9.5.19	Flail Cutter	X
X9.5.20	Forks, Utility	X
X9.5.21	Grader	X
X9.5.22	Grapple, Industrial	X
X9.5.23	Grapple, Root	X

X9.5.24	Hydraulic Breaker	X
X9.5.25	Landplane	X
X9.5.26	Landscape Rake	X
X9.5.27	Mower	X
X9.5.28	Packer Wheel	X
X9.5.29	Pallet Fork – Heavy Duty	X
X9.5.30	Pallet Fork - Hydraulic	X.
X9.5.31 X9.5.31.1	Planer: Standard*	X
X9.5.31.2	Curb*	X
X9.5.31.3	High Flow*	X
X9.5.32	Scarifier	X
X9.5.33	Scraper	X
X9.5.34	Seeder	X
X9.5.35	Snowblade	X
X9.5.36	Snow B-Blade*	X
X9.5.37	Snowblower*	x
X9.5.38	Sod Layer	N/A
X9.5.39 X9.5.39.1	Soil Conditioner: Manual*	X
X9.5.39.2	Hydraulic*	X
X9.5.40	Spreader	N/A
X9.5.41	Stabilizer	N/A
X9.5.42	Stump Grinder*	X
X9.5.43	Sweeper	X
X9.5.44	Three-Point Hitch	X

X9.5.45	Tiller	X		
X9.5.46	Tracks, steel	N/A		
X9.5.47	Tree Spade*	X		
X9.5.48	Trench Compactor	N/A		
X9.5.49	Trencher	X		
X9.5.50	Utility Frame	X		
X9.5.51	Vibratory Roller	X		
X9.5.52	Water Kit	X		
X9.5.53	Wheel Saw	X		
X9.5.54	Whisker Broom	. X		
X10.0 Doe	PRICING FOR ALL ATTACHMENTS s the proposed unit meet or exceed the "OSH.	A of 1970" and/or sub	osequent changes? X YES	NO
X11.0 Doe	s the unit conform to the advertising guideline	es? (Describe)		<u> </u>
X12.0 Prev	rentive Maintenance and Operator's Training	School:		
X12.1	Will a preventative maintenance and opera	ator's training semina	r be provided?X_YES	NO
	If you are the successful vendor, will you required in conducting the training?	furnish all training aid	ls, i.e., videos, proje	
	Will all manuals, booklets, etc. preventive service schedule be delivered with each un If NO. explain		or procedures, andX_YES	NO

ADDENDUM #2 707EC020

OPEN END CONTRACT

SKID STEER LOADER WITH ATTACHMENTS

CHANGES TO SPECIFICATIONS:

FROM:

5.1 SECOND PARAGRAPH

Prices for the units with attachments shall be in quantities of 1-5, 6-10, and 11 and over. However, for evaluation purposes, we will use quantities 1-5 for loader and all attachments. DOH reserves the right to place orders in any quantity. Orders placed may be with one (1) or all attachments. Attachments may be ordered as needed.

TO:

5.1 SECOND PARAGRAPH

Prices for the units with attachments shall be in quantities of 1-5, 6-10, and 11 and over. Also, price for loader only shall be submitted as well. However, for evaluation purposes, we will use quantities 1-5 for loader and all attachments. DOH reserves the right to place multiple orders in any quantity. Orders placed may be with one (1) or all attachments. Attachments may be ordered as needed.

FROM:

8.4.2 Unit shall have high flow hydraulic system providing adequate flow and pressure for specified attachments.

TO:

8.4.2 Unit shall have high flow hydraulic system (30 GPM minimum).

DELETE:

9.3 A remote attachment control device should be available for specified attachments (marked by an "*") to start the loader and operate the attachment from the outside the operator control area.

707EC020

ADDENDUM #2

Page 2

RENUMBER:

9.4

to A single control unit should be provided which will control all available attachments.

9.3

DELETE AS WRITTEN:

9.5

The following attachments should be available:

and

sub

topics

9.5.1

to and

including

9.5.54

ADD:

9.4

The following attachments shall be available and must be priced to award contract.

and

sub

topics

9.4.1

through

9.4.32

as follows:

AUGER – WOODS EQUIPMENT CORPORATION OR	HA 25	HA30
EQUAL		
Drive Type	Planetary	Planetary
Flow Range	10 - 30 gpm	10-40 gpm
Pressure Range	3500 psi	3500 psi
Maximum Bit Size	36"	36"
Approximate Weight	620 lb.	650 lb.
Performance Guide	Heavy Duty	Heavy Duty
BIT SPECIFICATIONS FOR BOTH MODELS Bit Specification – Hex –	6" x 50" Head	
Die Specification - Hex -	G A JU Head	

12" x 50" Head 24" x 50" Head

12" extension 24" extension 48" extension

Single Flight Extension

Single Flight Extension

BACKHOE	509	511	609	611
WITH 12 INCH				
BUCKET-				
ATTACHMENT				
TECHNOLOGIES				
INC. OR EQUAL				
Transport Height	7 ft. 9 in.	8 ft. 10 in	7 ft. 9 in	8 ft. 10 in
Transport Width	5 ft. 0 in	5 ft. 0 in	4 ft. 9 in.	4 ft. 9 in
Ground Clearance	11 ft	11 ft	11 ft	11 ft
Overall Length	7 ft. 7 in	7 ft 9 in	7 ft 7 in	7 ft 9 in
Boom Pivot Height	16 in.	16 in.	16 in.	16 in.
Operating Weight	1425 lb.	1594 lb.	1702 lb.	1847 lb.
w/12 in. Bucket				
Digging Depth	9 ft. 8 in.	11 ft. 1 in.	9 ft. 8 in	11 ft. 1 in.
Maximum				44.0.0.
Digging Depth (2	9 ft. 7 in.	11 ft. 0 in.	9 ft. 7 in.	11 ft. 0 in.
ft.) Flat Bottom				0011:
Digging Depth (8	8 ft. 3 in.	9 ft. 11 in	8 ft. 3 in.	9 ft. 11 in
ft.) Flat Bottom	100101	140.51	100 10:	148 51
Overall Operating	12 ft 10 in	14 ft. 5 in	12 ft. 10 in	14 ft. 5 in
Height – Fully				
Raised	C 0 10 1	0.0.	CA 10:	0 A O :
Loading Height	6 ft. 10 in	8 ft 0 in	6 ft. 10 in	8 ft. 0 in
Loading Reach	4 ft. 2 in.	5 ft 0 in	4 ft. 2 in	5 ft. 0 in 14 ft. 5 in
Reach from Swing	12 ft. 9 in	14 ft. 5 in	12 ft. 10 in	14 II. J III
Post	190 dagmaga	100 dagraga	190 Jagrage	180 degrees
Bucket Rotation	180 degrees	180 degrees 180 degrees	180 degrees 180 degrees	180 degrees
Swing Arc	180 degrees 7 ft. 3 in	8 ft. 2 in	7 ft. 3 in	8 ft. 2 in
Straight Wall	/ 1t. 3 m	0 II. 2 III	/ 11. 3 111	0 II. 2 III
Digging Depth Stabilizer Spread	7 ft. 11 in.	7 ft 11 in	9 ft. 11 in	9 ft. 11 in
Operating Position	/ 14. 11 111.	7 11 11 111) II. II III	<i>y</i> 16. 11 111
Stabilizer Down	16 in	16 in	17 in	17 in
Below Grade	10 М	10 111	1, 11	1, 11
System Relief	2500 psi	2500 psi	2500 psi	2500 psi
Valve Setting	20 00 por	0 0 P2-1	F	F
Digging Force –	5676 lb.	5676 lb.	5908 lb.	6167 lb.
Bucket Cylinder				
Digging Force –	2754 lb.	3056 lb.	3232 lb	4160 lb.
Dipper Cylinder				

BACKHOE – MINI – FFC ATTACHMENTS	MB 12	MB 18	MB 24	
OR EQUAL Digging Depth Bucket Width Weight	5 ft. 6 in 12 in 635 lb.	5 ft. 6 in 18 in 665 lb	5 ft. 6 in 24 in 695 lb.	
BLADE - DOZER - A TECHNOLOGIES IN	IC. OR EQUAL	DB 96		
Width from Centerlin degree Angle	e to Inside Edge @ 15	49.31 in		
Width from Centerlin	e to Inside Edge @ 30	47.38 in		
degree Angle Dozer Blade Width @	15 degree Angle	92.73 in.		
Dozer Blade Width @	-	83.56 in		
Width from Centerlin		43.41 in.		
15 degree Angle				
Width from Centerlin	e to Outside Edge @	36.16 in.		
30 degree Angle		06.00.		
Overall Width		96.00 in		
Angle Left and Right Overall Length		30 degrees 36.68 in		
Overall Height		29.89 in.		
Approximate Weight		1460 lb.		
BOOM – MATERIAI ATTACHMENT TEC OR EQUAL		МН 66		
Rated Load Capacity		1500 lb.		
Height		66 in.		

BREAKER - HYDRAULIC - KOMATSU	JPB 210
OR EQUAL	
CIMA Tool Energy Rating	212 ft. lb.
Flow Range	22 gpm
Striking Rate	1375 bpm
Operating Pressure	2059 psi
Working Weight	527 lb.
Striking Rate (blows per minute)	1040 min
Adjusted Breaker Pressure	2000 psi
Max. Operating Pressure	2100 psi
Tool Diameter	2.5 in.

BROOM - ANGLE - POLY/WIRE	AB 84
BRISTLES - ATTACHMENT	
TECHNOLOGIES INC. OR EQUAL	
Overall Width	94 in.
Sweeping Width	88 in
Overall Height	35.5 in.
Length Coupler to Brush Front	59.60 in.
Transport Height On Stand	40.0 in.
Maximum Angle (Left and Right)	30 degrees
Sweeping Width @ 30 degree Angle	76 in.
Weight	1031 lb.
Brush Diameter	32 in.
Wafers (Quantity)	45
Optional Water Kit with 25 Gallon Tank	
Manual/Hydraulic Angle	

BROOM – GENERAL PURPOSE PICK- UP –	PB68
WOODS EQUIPMENT CORP. OR	
EQUAL	
Brush Width	60 in.
Overall Width	68.5 in
Height	25.25 in
Length	67.7 in
Approximate Weight	714 lb.
Hopper Capacity	13.5 cu. ft
Optional Gutter Broom	Cleaning next to curbs

BRUSH CUTTER - FFC ATTACHMENTS LAF 3772

OR EQUAL

Overall Width 75.5 in **Cutting Width** 72 in Height 27 in 15-30 gpm **GPM** Range Max PSI Range 3500 psi

Blade Speed Min/Max 12474/19127 ft/min

Weight Approximate 1653 lb.

THE CHARGE THE TOTAL COST A TERM TO	DC 04
BUCKET – BRUSH GRAPPLE –	BG 84
ATTACHMENT TECHNOLOGIES INC.	
OR EQUAL	
Overall Width	84 in
Overall Depth	35.9 in
Grapple Width	20.5 in
Tine Spacing	6 in.
Grapple Height - Closed	26.4 in.
Grapple Hook - Opening	42 in.
Overall Weight (lbs)	826 lb.
Clamping Force (lbs)	1250 lb.
Number of Grapple Teeth	4
Number of Cylinders	2
Tines & End Plates	1/2 in. T1 steel (100,00

(100,000 lb. yield)

2.00 in Bore Stroke 8.25 in 1.25 in. **Rod Diameter**

BUCKET – FORKED SCRAP GRAPPLE – FFC ATTACHMENTS OR EQUAL	FSG 63	FSG 72
Opening Height	41 in.	41 in.
Height Closed	20 in.	20 in.
Usable Tooth	24.13 in.	24.13 in
Width	63.44 in.	73.06 in.
Number of Teeth	8	10
Approximate Weight	990 lb.	1100 lb.
Cylinder Bore	2 in.	2 in.
Cylinder Stroke	8 in.	8 in.

BUCKET – GENERAL PURPOSE – WOODS EQUIPMENT CORP. OR EQUAL	GP 68S	GP 73S	GP 68L	GP 73L
Type of Bottom	Short	Short	Long	Long
Width	68 in	73 in	68 in	73 in
Height	19 in	19 in	19 in	19 in
Length	29 in	29 in	35 in	35 in
Approximate	440 lb.	469 lb.	475 lb.	508 lb.
Weight				
Heaped	13.4 cu ft	14.4 cu ft	16.5 cu ft	17.8 cu ft
Capacity				
Optional Teeth	Weld on	Weld on	Weld on	Weld on
Optional Bolt on Cutting Edge	5/8 in x 8 in reversible			
Optional Bolt	66 3/8 in –	71 3/8 in –	66 3/8 in –	71 3/8 in –
on Toothbar Inside Bucket Width	66 3/4 in	71 3/4 in	66 3/4 in	71 3/4 in

BUCKETS - GENERAL PURPOSE UTILITY & LIGHT MATERIAL - WOODS EQUIPMENT CORPORATION OR EQUAL	UT 72		LM 72	LM 78	LM 84
Type	GPU		LM	LM	LM
Width	72 in		72 in	78 in	84 in
Height	25 in		26 in	26 in	26 in
Length	35 in		38 in	38 in	38 in
Approximate	553 lb.		585 lb.	617 lb.	660 lb.
Weight	002 101		• • • • • • • • • • • • • • • • • • • 		
Heaped Capacity	22.8 cu. ft		25.8 cu ft	28.1 cu ft	30.3 cu ft
Optional Bolt on	5/8 in x 8 i	n	5/8 in x 8 in	5/8 in x 8 in	5/8 in x 8 in
Cutting Edge	reversible		reversible	reversible	reversible
Optional Bolt on	70 3/8 in –		NA	NA	NA
Toothbar Inside	70 3/4 in				
Bucket Width					
BUCKET – HEAV SCRAP GRAPPL		SG 72	;	SG 78	
WOODS EQUIPM					
CORP. OR EQUA					
Width		72 in		78 in	
Height		28 in		28 in	
Length		27 1/4	in	27 1/4 in	
Capacity		14 cu		15.2 cu ft	
Approximate Weig	ght	856 lb) .	886 lb.	
Cylinder Bore Dia		2 in.		2 in.	
Cylinder Stroke		8 1/4 i	n	8 1/4 in	
Optional Bolt on C	Cutting	5/8 in	x 8 in reversible	5/8 in x 8	in reversible
Edge	_				

BUCKET – MULTI-	MP 73	MP 78
PURPOSE – WOODS		
EQUIPMENT CORP. OR		
EQUAL		
Width	73 in	78 in
Height	31 in	31 in
Length	33 in	33 in
Heaped Capacity	14.2 cu ft	15.5 cu ft
Approximate Weight	644 lb.	688 lb.
Cylinder Rod Diameter	1 1/2 in	1 1/2 in
Cylinder Bore	2 1/2 in	2 1/2 in
Cylinder Stroke	8 in	8 in
Optional Bolt on Reversible	5/8 in x 8 in reversible	5/8 in x 8 in reversible
Cutting Edge		
Optional Bolt on Toothbar	71 3/8 in –	76 3/8 in –
Inside Bucket Width	71 3/4 in	76 3/4 in

BUCKET - ROCK - ATTACHMENT	RB 75
TECHNOLOGIES INC. OR EQUAL	
Overall Width	74.35 in
Overall Depth	42.45 in
Depth with Skid Steer Mounting	49.80 in
Overall Height	21.77 in
Tine Spacing (Center to Center)	4.25 in
Tine Spacing (Between Tines)	3.125 in
Overall Weight (lbs.)	619 lb.
Number of Tines	18
Tine Rod Diameter	1.125 in

COLD PLANER - WOODS EQUIPMENT CORP. OR EQUAL	CP 12	CP 16	CP 18	CP 24	CP 30
Depth of Cut	0-6 in	0-6 in	0-6 in	0-6 in	0-6 in
Width of Cut	12 in	16 in	18 in	24 in	30 in
Number of	28	50	56	70	77
Teeth					
Sideshift	22 in	22 in	22 in	22 in	22 in
Tilt	19 degrees	19 degrees	19 degrees	15 degrees	11 degrees
Weight	1200 lb.	1750 lb	2000 lb.	2300 lb.	2450 lb
Hydraulic	Std	Std	Std	Std	Std
Depth					
Control	G. I	G. I	G. 1	Cu 1	CV 3
Hydraulic Tilt	Std	Std	Std	Std	Std
Control					
CONCRETE C		L	10024		
Working Widtl	=		24 in		
Working Depth			48 in		
Height OD			21 in		
Rear Opening I	Height		7.5 in		
Weight Approx	imate		575 lb.		
FORKS - PAL			PF 48		
TECHNOLGI	-	UAL			
Weight (Includ	ing mounting)		370 lb.		
Fork Length			48 in		
Fork Capacity			4000 lb.		
Fork Spread Ra	-		43/8 - 403/8 is	n	
High Visibility			Yes		
Tooth Double I	lock Downs		Yes		

GRAPPLE – LOG FORK – FFC	LG 28
ATTACHMENTS OR EQUAL	
Tine Length	28.4 in
Opening Height	43.1 in
Capacity	6400 lb.
Weight	610 lb.

HITCH - THREE POINT - WOODS	TH3000
EQUIPMENT CORP. OR EQUAL	
Overall Width	46 in
Height	26 in
Length	11 in
Approximate Weight	180 lb.

POWER RAKE – FFC ATTACHMENTS	PRA 90
OR EQUAL	
Working Width	90 in
Overall Width	101 in
Fully Angled Width	86 in
Height	30.3 in
Angle Option	Manual
- -	Hydraulic
Weight	1075 lb.

PREPARATOR - FFC ATTACHMENTS	P 76
OR EQUAL	
Bucket Capacity	12.5 cu ft
Overall width	85.25 in
Bucket Swath Width	76 in
Overall Bucket Height	25.53 in
Overall Bucket Length	53 in
RPM-r/min@16 gpm Nominal Flow	0-100
Overall Drum Diameter	21.5 in
Tooth Thickness	.19 in
Tooth Length	2.19 in
Number of Teeth	340
Rake Drive	#80H Roller Chain
Brush Drive	#50H Roller Chain
Overall Weight	1465 lb.

ROCK WHEEL WITH 50 GALLON WATER KIT - WOODS EQUIPMENT CORP. OR EQUAL	RW 12	RW 18	RW 24
Depth of Cut	0-12 in	0-18 in	0-24 in
Width of Cut	2.5/4.5 in	2.5/4.5 in	2.5/4.5 in
Number of Teeth	28/33	42/44	56/66
Side Shift	22 in	22 in	22 in
Weight	1600 lb.	1800 lb.	2100 l.b
Wheel Speed	60 rpm	60 rpm	60 rpm
Cutting Speed	Up to 15 fpm	Up to 15 fpm	Up to 15 fpm

ROLLER – VIBRATORY – WOODS EQUIPMENT CORP. OR EQUAL	VR 66A	VR 73A
Drum Width	66 in	73 in
Overall Width	73 in	80.5 in
Drum Oscillation	+/-50 degrees	+/-15 degrees
Overall Height	27 in	27 in
Overall length	33 in	33 in
Drum Diameter	24 in	24 in
Total Output	8740 lb.	10,240 lb.
Frequency VPM	2000 @ 15 gpm	2000 @ 15 gpm
Weight lbs. Smooth	1633 lb.	1762 lb
Weight lbs. Padded	1850 lb.	2100 lb.

SCARIFIER – WOODS EQUIPMENT	SF 3000
CORP. OR EQUAL	
Working Width	40 in
Overall Width	63 in
Height	27 in
Length	20 in
Approximate Weight	350 lb.
Number of Shanks	5

SNOW BLADE – FFC ATTACHMENTS	SB 96
OR EQUAL	
Length	96 in
Height with Edge	23.25 in
Angled Width	82.9 in
Weight	525 lb.

SNOW BLOWER - FFC	84	84H
ATTACHMENTS OR		
EQUAL		
Cutting Width	84 in	84 in
Shroud Opening	25 in	36 in
Overall Depth	38 in	43 in
Overall Height	56.75 in	74 in
Weight	720 lb.	1230 lb.

STUMP GRINDER - WOODS EQUIPMENT CORP. OR EQUAL	SG 20	SG 40	SG 60
Overall Length	64.1 in	64.1 in	64.1 in
Telescopic Extension	7 in	7 in	7 in
Horsepower	To 20 HP	To 40 HP	To 60 HP
Delivered			
Cutting Height	21 in	21 in	21 in
Above Ground			
Cutting Depth Below	16 in	16 in	16 in
Ground			
Cutting Wheel	3.25 in	3.25 in	3.25 in
Width			
Cutting Width	60 in	60 in	60 in
Swing Range	140 degrees	140 degrees	140 degrees
Type of Teeth	0.5 in slanted, carbide	0.5 in slanted, carbide	0.5 in slanted, carbide
	tip	tip	tip
Number of Teeth	32	32	32
Wheel Diameter	18 in	18 in	18 in
Wheel Speed	700 rpm	900 rpm	900 rpm
(Approx			
Weight	765 lb.	775 lb.	840 lb.

TILLER – WOODS EQUIPMENT CORP. OR	TL 73	TL 84
EQUAL		
Overall Width	86 in	97 in
Cutting Width	73 in	84 in
Working Depth	6 in	6 in
Overall Height	31 in	31 in
Number of Tines	36	40
Tine Rotation	Bi-directional	Bi-directional
Weight	1050 lb.	1228 lb.
Driveline	(2) in-line gerotor motors	(2) in-line gerotor motors
Maximum Tine Speed	121 rpm	121 rpm
Max Flow	25 gpm @ 2000 psi	46 gpm @ 3500 psi

TREE SPADE – FFC ATTACHMENTS OR EQUAL	TS36	TS40	TS42	TS44	TS48
Maximum Ball	36 in	40 in	42 in	44 in	48 in
Size Weight	258 lb.	312 lb.	360 lb.	378 lb.	425 lb./

TRENCHER – ATTACHMENT TECHNOLOGIES	615	625	650C
INC. OR EQUAL	26:	40.	40 .
Boom Size	36 in	48 in	48 in
Trench Depth @	36 in	48 in	48 in
Recommended			
Angle			
Chain Width	6 in	6 in	6 in
Recommended	65 degrees	65 degrees	65 degrees
Trenching Angle			
Length	65 in	86 in	84 in
Width	42 in/50.5 in	53 in	43 in
Height	28 in	32 in	37 in
Spoil Discharge	24 in	18 in	27 in
Reach			
Weight	495 lb/775 lb	N/A	N/A

ADDENDUM #2 707EC020

OPEN END CONTRACT

SKID STEER LOADER WITH ATTACHMENTS

CHANGES TO BIDDER'S EVALUATION REPORT:

X5.1 NO CHANGE REQUIRED

P	rice for loader only in quantities of	1-5	per unit
	*	6-10	per unit
		11 and over	per unit
P	rices for loader and all attachments		
Ir	quantities of	1-5	per unit
	•	6-10	per unit
		11 and over	per unit
FROM: X8.4.2	Does unit have high flow hydraulic s specified attachments	ystem providing adequate f X YES	_
TO:			
X8.4.2	Does unit have high flow hydraulic s	ystem X YES	SNO
	GPM: 30		

DELETI	L:
X9.3	Is a remote attachment control device available for specified attachments (marked by an "*") to start the loader and operate the attachment from the outside the operator control area YESNO
RENUM X9.4 To Is X9.3	BER: a single control unit provided which will control all available attachments X YES NO
DELETE X9.5 And Sub Topics 9.5.1 To and Including 9.5.54	E AS WRITTEN: Attachments and pricing:
ADD: X9.4 And Sub Topics 9.4.1 Through 9.4.32 As follow	Are you supplying all attachments as listed in the specifications? X YES NO

X9.4 ATTACHMENTS:

X9.4.1 Does the AUGER you are providing meet or exceed the specification?

X YES ____NO

Manufacturer: Bradco

	MODEL: HA25	MODEL: HA30
Auger	\$1,862.36	\$2,067.18
BITS – HEX:		
6" X 50" Head	\$290.98	\$290.98
12" x 50" Head	\$417.53	\$417.53
24" x 50" Head	\$811.81	\$811.81
SINGLE FLIGHT		
EXTENSIONS:		
12" Extension	\$173.94	\$173.94
24" Extension	\$187.84	\$187.84
48" Extension	\$280.50	\$280.50

TOTAL PRICE:

\$ 4,024.96

\$ 4,229.78

X9.4.2 Does the **BACKHOE WITH 12 INCH BUCKET** you are providing meet or exceed the specification? X YES _____NO

Manufacturer: Bradco

	MODEL: 509	MODEL: 511	MODEL: 609	MODEL: 611
Bucket with 12	X	X	X	X

Inch Bucket	\$417	417	417	417
TOTAL PRICE: \$	57,494.17	\$7,724.60	\$8,009.88	\$ 8,259.32
X9.4.3 Does the	BACKHOE-M	IINI you are prov	iding meet or exce X	eed specifications? YESNO
Manufacturer: I	FC			
	MODEL:	MB12 MO	DEL: MB18	MODEL: MB24
Backhoe – Mini	\$1,852.85	\$1,9	917.95	\$1,985.25
TOTAL PRICE:	\$1,852.85	\$ 1	,917.95	\$ 1,985.25
X9.4.4 Does the	e BLADE – DO	ZER you are prov		eed specifications? YESNO
Manufacturer: B	radco ATI			
		MC	DDEL: DB96	
Blade – Dozer		\$3,8	841.06	
TOTAL PRICE:		\$ 3	,841.06	
X9.4.5 Does the BOOM – MATERIAL HANDLING you are providing meet or exceed the specifications? X YES NO Manufacturer: Bradco ATI				
•	radco ATI			
•	radco ATI	MC	DEL: MH66	

21

TOTAL PRICE:

\$ 765.11

X9.4.6 Does the BREAKER – HYDRAUI specifications?	AIC you are providing meet or exceed the X YESNO
Manufacturer: Volvo	
	MODEL: HB200
Breaker – Hydraulic	\$6,381.56
TOTAL PRICE:	\$ 6,381.56
	LY/WIRE BRISTLES – WATER KIT WITH ling meet or exceed the specifications? X YESNO
Manufacturer: Sweepster	
	MODEL: AB84
Broom – Angle – Poly/Wire Bristles – Std. Manual Angle	\$4,514.77
Optional Water Kit with 25 Gallon Tank	\$621.11
Optional Hydraulic Angle	\$892.27
TOTAL PRICE:	\$ 6,028.15
X9.4.8 Does the BROOM – GENERAL P or exceed the specifications? Manufacturer: Sweepster	URPOSE PICK-UP you are providing meet X YESNO
r	MODEL: P68
Broom – General Purpose Pick-Up	\$3,998.93
TOTAL PRICE.	\$ 3,998,93

X9.4.9 Does the BRUSH CUTTER	you are providing meet or exceed the specifications? X YESNO
Manufacturer: Bradco ATI	
	MODEL: LAF3772
Brush Cutter	\$3,735.00
TOTAL PRICE:	\$ 3,735.00
X9.4.10 Does the BUCKET – BRUS specifications?	SH GRAPPLE you are providing meet or exceed X YES NO
Manufacturer: FFC	
	MODEL: BG84
Bucket – Brush Grapple	\$2,691.88
TOTAL PRICE:	\$ 2,691.88
X9.4.11 Does the BUCKET – FORk exceed specifications?	XED SCRAP GRAPPLE you are providing meet or X YESNO
Manufacturer: FFC	
	MODEL: FSG72
Bucket-Forked Scrap Grapple	\$3,530.91
TOTAL PRICE:	\$ 3,530.91

X9.4.12 Does the **BUCKET – GENERAL PURPOSE** you are providing meet or exceed the specifications? X YES _____NO

Manufacturer: Volvo

	MODEL:	MODEL:	MODEL:	MODEL:
: ·	11840402	11840404	11840382	11840384
Bucket - General				•
Purpose	\$1,005.04	\$1,089.16	\$1,005.04	\$1,089.16
Optional Teeth	\$140.60	\$140.60	\$140.60	\$140.60
Optional Bolt on				
Cutting Edge .	\$ Std	\$ Std	\$ Std	\$ Std
Optional Bolt on				
Toothbar Inside				
Bucket Width	\$400.70	\$400.70	\$422.65	\$400.70

(NOTE: ADD ALL LINES FOR EVALUATION PURPOSES)

TOTAL PRICE \$ 1,546.34 \$ 1,630.46 \$ 1,546.34 \$ 1,630.46

X9.4.13 Do the **BUCKETS – GENERAL PURPOSE UTILITY & LIGHT MATERIAL** meet or exceed the specifications? X YES _____ NO

Manufacturer: FFC

	MODEL (GPU):	MODEL (LM):	MODEL (LM):	MODEL (LM):
	UT72	LM72	LM76	LM84
Bucket (GPU)	\$1,207.00			
Bucket (LM)		\$1,376.95	\$1,413.25	\$1,405.00
Optional Bolt on				
Cutting Edge	\$ Std	\$ Std	\$ Std	\$ Std
Optional Bolt on				
Toothbar Inside				
Bucket Width	\$400.70	\$400.70	\$422.65	\$503.12

(NOTE: ADD ALL LINES FOR EVALUATION PURPOSES)

TOTAL PRICE \$ 1,607.70 \$ 1,777.65 \$ 1,835.90 \$ 1,908.12

X9.4.14 Does the BUCKET or exceed the specific	– HEAVY DUTY SCRAP GRA cations?	PPLE you are providing meet X YESNO
Manufacturer: Bradco ATI		
	MODEL: BG84	MODEL:
Bucket - Heavy Duty Scrap		
Grapple	\$3,420.45	\$3,426.25
Optional Bolt on Cutting Edge	\$ Std	\$ Std
(NOTE: ADD ALL LINES FOR	R EVALUATION PURPOSES)	
TOTAL PRICE:	\$ 3,420.45	\$ 3,426.25
X9.4.15 Does the BUCKET	- MULTI PURPOSE you are pr	oviding meet or exceed the
specifications?	··· Month i Old Obn you mo pr	X YESNO
specifications.		
Manufacturer: FFC		
	MODEL: MP73	MODEL: MP78
Bucket-Multi Purpose	\$2,806.72	\$2,967.65
Optional Bolt on Reversible		
Cutting Edge	\$ Std	\$ Std
Optional Bolt on Toothbar		
Inside Bucket Width	\$422.65	\$512.14
(NOTE: ADD ALL LINES FOR	R EVALUATION PURPOSES)	
TOTAL PRICE:	\$ 3,229.37	\$ 3,479.79
X9.4.16 Does the BUCKET	- ROCK you are providing meet	or exceed the specifications? X YESNO
Manufacturer: Bradco ATI		
	MODEL: RB7	5
Bucket - Rock	\$1,401.51	
TOTAL PRICE:	\$ 1,401.51	

X9.4.17 Do	es the COLD P	LANER you are	providing meet o	or exceed the spe X YES	
Manufacturer:	Bradco ATI				
	MODEL:	MODEL:	MODEL:	MODEL:	MODEL:
	CP12	CP16	CP18HF	CP24HF	CP30HF
Cold Planer	\$6,979.93	\$7,399.08	\$12,008.99	\$13,684.86	\$16,081.25
TOTAL PRICE:	\$6,979.93	\$7,399.08	\$12,008.99	\$13,684.86	\$16,081.25
X9.4.18 Do	es the CONCR	ETE CLAW yo	u are providing m	eet or exceed the	
Manufacturer:	FFC				
			MODEL: 10	024	
Concrete Claw	V		\$1,598.28		
TOTAL PRIC	CE:		\$ 1,598.28		
X9.4.19 Do	the FORKS -	PALLET you ar	e providing meet	or exceed the sp X YES	
Manufacturer:	FFC				
			MODEL: LO	i28	
Forks - Pallet			\$882.15		
TOTAL PRIC	CE:		\$ 882.15		

X9.4.20	Does the GRAPPLE - LOG FORK specifications?		meet or exceed the X YESNO
Manufactu	irer: FFC		
		MODEL: LG28	
Grapple-L	og Fork	\$3,127.12	
TOTAL I		\$ 3,127.12	
X9.4.21	Does the HITCH - THREE POINT		
	specifications?		X YESNO
Manufactu	nrer: Bradco ATI		
		MODEL: TH300	00
Hitch-Thre	ee Point	\$717.56	
TOTAL I	PRICE:	\$717.56	
X9.4.22	Does the POWER RAKE you are pr		ceed the specifications? X YES NO
Manufactu	nrer: FFC		
		MODEL: PRH90)
Power Ral	«e	\$6,258.67	
Manual A	ngling	\$ Std	
Hydraulic	Angling	\$763.05	
	MANUAL ANGLING PRICE:	\$ Std	
TOTAL I	HYDRAULIC ANGLING PRICE:	\$ 7,021.22	

X9.4.23 Does the PREPAR	ATOR you are pr	oviding meet or	exceed the specifications? X YES NO	
Manufacturer: FFC			A 1ESNO	
		MODEL: P76		
Preparator		\$6,464.95		
TOTAL PRICE:		\$ 6,464.95		
X9.4.24 Does the ROCK W meet or exceed the s		GALLON WA	ATER KIT you are providing X YESNO	
Manufacturer: Bradco ATI				
MODI RW18		MODEL: RW24	MODEL:	
Rock Wheel with 50 Gallon Water Kit \$9,766	.21	\$10,387.99	\$	
TOTAL PRICE: \$ 9,766	.21	\$ 10,387.99	\$	_
X9.4.25 Does the ROLLER specifications?	– VIBRATORY	you are providi	ng meet or exceed the X YES NO	
Manufacturer: Bradco ATI				
	MODEL: VR6	6A	MODEL: VR73A	
Roller – Vibratory	\$		\$	
Smooth Drum	\$6,020.93		\$6,265.99	
Padded Drum	\$7,171.25	- <u>,,,</u> ,	\$7,698.37	
TOTAL SMOOTH DRUM:	\$ 6,020.93		\$6,265.99	
TOTAL PADDED DRUM:	\$7,171.75		\$7,698.37	

X9.4.26 Does the SCAI	RIFIER you are providing	g meet or exceed the specifications? X YESNO
Manufacturer: FFC		
	Me	ODEL: LAF2201-2
Scarifier	\$1	,038.69
TOTAL PRICE:	\$1	1,038.69
X9.4.27 Does the SNO	W BLADE you are provid	ling meet or exceed the specifications? X YESNO
Manufacturer: FFC		
	Me	ODEL: SB96
Snow Blade	\$2	,261.02
TOTAL PRICE:	\$2	2,261.02
X9.4.28 Does the SNOV	W BLOWER you are prov	viding meet or exceed the specifications? X YESNO
Manufacturer: FFC		
	MODEL: 84	MODEL: 84H
Snow Blower	\$4,340.68	\$6,107.25
TOTAL PRICE:	\$4,340.68	\$6,107.25

X9.4.29 Doo	es the STUMP	GRINDER you	are providing med	et or exceed the X YES	
Manufacturer:	Bradco				
	MOE	DEL: SG26	MODEL: SG3	MOD MOD	EL: GS60HF
Stump Grinder	\$5,39	1.84	\$6,247.70	\$ N/A	A
TOTAL PRIC	CE: \$5,39	1.84	\$6,247.70	\$ N/A	.
X9.4.30 Doe	es the TILLER	you are providi	ng meet or exceed	the specification X YES	
Manufacturer:	Bradco				
		MODEL: TI	L73	MODEL: TL	84
Tiller		\$3,720.37		\$3,855.69	
TOTAL PRIC	CE:	\$3,720.37		\$3,855.69	
X9.4.31 Doe	es the TREE SF	ADE you are p	roviding meet or e	xceed the specif	
Manufacturer:	FFC				
	MODEL:	MODEL:	MODEL:	MODEL:	MODEL:
	TS36	TS40	TS42	TS44	TS48
Tree Spade	\$5,428.42	\$7,403.47	\$8,171.54	\$10,278.26	\$8,546.64
TOTAL PRICE:	\$5,428.42	\$7,403.47	\$8,171.54	\$10,278.26	\$8,546.64
X9.4.32 Doe	s the TRENCH	IER you are pro	viding meet or exc	eed the specific	ations? NO

Manufacturer: Bradco

	MODEL: 615	MODEL: 625	MODEL: 650C
Trencher	\$2,879,14	\$2,897.43	\$3,548.46

TOTAL PRICE:

\$2,879.14

\$2,897.43

\$3,548.46

GRAND TOTAL FOR ALL ATTACHMENTS:

\$310,304.93

VOLVO SKID STEER LOADERS MC60B, MC70B, MC80B, MC90B, MC110B



VOLVO

LOADS OF COMFORTABLE PRODUCTION.

Get a load of the Volvo Skid Steer Loader – and get comfortable with doing more. Joining Volvo's compact global range, with Compact Wheel Loaders, Compact Excavators and Backhoe Loaders, Volvo Skid Steer Loaders deliver production, serviceability and safety – surrounded in all-day comfort.

The comfortable way to work

You're going to get more work done in a machine that is comfortable. That's because you stay alert, fresh and focused. And to make sure the last hour of your shift is as comfortable as the first, Volvo Skid Steer Loaders are full of comfort features, inside and out, top to bottom. At the core of the frame, the isolation-mounted cab reduces vibration and noise during operation. Inside the cab, enjoy spacious ergonomics with plenty of shoulder, hip and legroom to make any sized operator feel at ease. And for peace-of-mind, the large top window made from durable tempered glass offers clear visibility above the cab.

You're in charge. Take the controls.

When it comes to controlling machine operation, you've got options. Choose mechanical or pilot controls - depending on your preference or the job at hand. The optional hydraulic pilot controls operate steering and drive functions with the left lever and loader functions with the right. Mechanical controls offer a direct feel for the machine, as each hand controls its respective machine side. Comfortable steering control levers are positioned perfectly to minimize arm movement and reduce fatigue. And depending on the control option you choose, enjoy greater convenience and precision with hand, or hand and foot throttle control.

The seat of comfort

When you work 8-10 hour shifts, you have an appreciation for comfortable seats. That's why Volvo gives you a choice of three seat options to fit operators and jobs of all types. Choose from a deluxe high-back seat with adjustable backrest or a suspension seat with weight adjustment. It doesn't stop there. You get total comfort with an ergonomic seat bar that integrates a comfortable armrest.

Get a quick gauge on performance

Stay on top of your machine's performance and maintenance with large, easy-to-read instruments located directly within your field of vision. With no obstruction of view, you get a quick gauge on all the key instruments, including fuel, hour meter, engine coolant temperature, engine oil pressure, hydraulic oil pressure and engine preheat. It's production, made comfortable.



Large, durable top window.



Three comfortable seat options.



Integrated comfortable armrest/seat bar.



BUILT TO PERFORM. BUILT TO LAST.

Skid steers need to be versatile. And because you put them through a lot each day, you need durability and performance you can count on. You found it. Volvo Skid Steer Loaders load it up and move on to the next job – day after day, year after year. It's what you need. It's what you get.

Outlast the competition

When it comes to greater profits, it's all about getting more done with less cost and less time. That means Volvo performance and reliability. Volvo Skid Steer Loaders bring it everyday, with the durability you need for the toughest jobs and the performance to keep you ahead of the competition.

Peak performance - everyday

Stay at the top of your performance with the new generation Volvo engine. Perfectly matched, Volvo Skid Steer Loaders feature powerful liquid-cooled, 16-valve Volvo engines. They deliver brute power – yet are quiet, efficient and meet Tier II environmental standards. And to really get more done, unleash the power of your high-performance attachments with an optional high-flow system. You get the extra oil flow and hydraulic power you need for easy operation of profitable attachments.

Volvo protects your investment

Construction equipment is an investment and you need maximum availability to stay profitable. That's why Volvo keeps you protected, with machines that are there for you. The lockable, steel rear door protects the engine compartment, hydraulic reservoir and all other key components to reduce damage and risk of vandalism. And to avoid the dangers of today's jobsites, Volvo Skid Steer

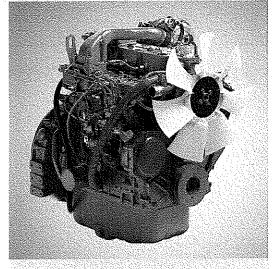
Loaders offer excellent 360° 3D visibility with large top, rear, side and front openings — to keep you earning and working safely.

Leave a lasting impression

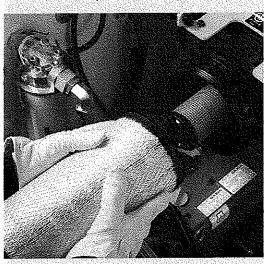
Get long machine life with a huge dualelement air cleaner that delivers plenty of clean air to the engine. This enhances engine life, reduces maintenance and lengthens service intervals. And for longlasting protection of the frame and arms, dual bolt-on lift-arm stops cushion the lift-arm when lowered all the way down. This eliminates noise and provides support when digging or pushing.

Heavy-duty durability

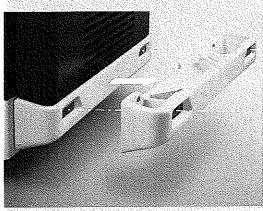
The base of Volvo's durability is the solid, one-piece steel mainframe — welded for strength and long life — to stand up to daily abuse. The sealed, heavy-duty cast iron axle housings feature lubricated-for-life bearings. And to absorb damage, the solid cast-iron rear bumper keeps you protected and improves resale value. It adds up to less maintenance and more uptime.



· Clean, efficient, powerful Volvo engine.



Dual element air cleaner enhances life.



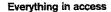
Heavy-duty rear bumper takes the abuse.



YOUR ACCESS TO SAFE PRODUCTIVITY.

It's a Volvo priority to keep you, your jobsite and our environment safe and protected. It's important and it means you can spend more time on the job and less time worrying about other things.

So for maximum uptime, safety and production – welcome to the Volvo Skid Steer Loader.



With Volvo, we're accessible - so you can do the routine maintenance, service the problem and get back to work. Volvo Skid Steer Loaders are built for maximum uptime and quick serviceability. All service checks offer easy access. The cab tilts forward, supported by gas shocks and a safety lock, for complete access. The oil cooler tilts away from the radiator for easy cleaning. Get at the engine compartment with the wide opening rear door that swings out a full 90° and the flip-up engine access cover. And if you ever need access to the chains and sprockets, the large removable drive chain cover plate gets you in and out quickly.

Safe and sound

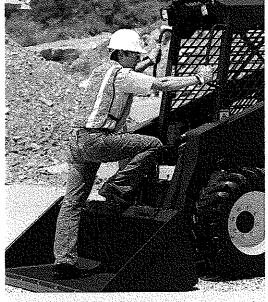
Staying on the job – profitably – requires an acute attention to safety. That's why Volvo Skid Steer Loaders are ROPS/FOPS certified. Raising the seat bar/armrest disengages hydraulic circuits, locks all controls and activates the parking brake to prevent accidental movements. The retractable seat belt automatically adjusts to keep you safely planted in the seat. When it's time to check the coolant expansion tank, enjoy the safety of a translucent, at-a-glance level check. And to reduce the risk of injury, the engine fan guard keeps debris out and the operator safe.

At your service - on the job

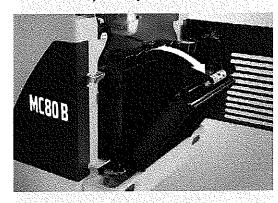
All machines require service and upkeep. Stay on top of maintenance with a highly visible instrument panel that provides visual and audible warnings of critical machine functions. One such warning is the air filter restriction indicator, which visually alerts you when service is required. You stay informed and avoid unnecessary maintenance. For extra protection and convenience, the fuel separator and filters are mounted on the engine door. And for quick inspection during routine maintenance, the at-aglance hydraulic sight gauge and interior, no-tool fuse panel keep you working longer and more efficiently.

Do not disturb

A noisy machine isn't just a jobsite disturbance, it can add to operator fatigue. Volvo Skid Steer Loaders cabs are isolation mounted in all four corners of the frame - for reduced vibration and noise. After an 8-hour shift, you'll hear and feel the Volvo difference (and so will those around you).



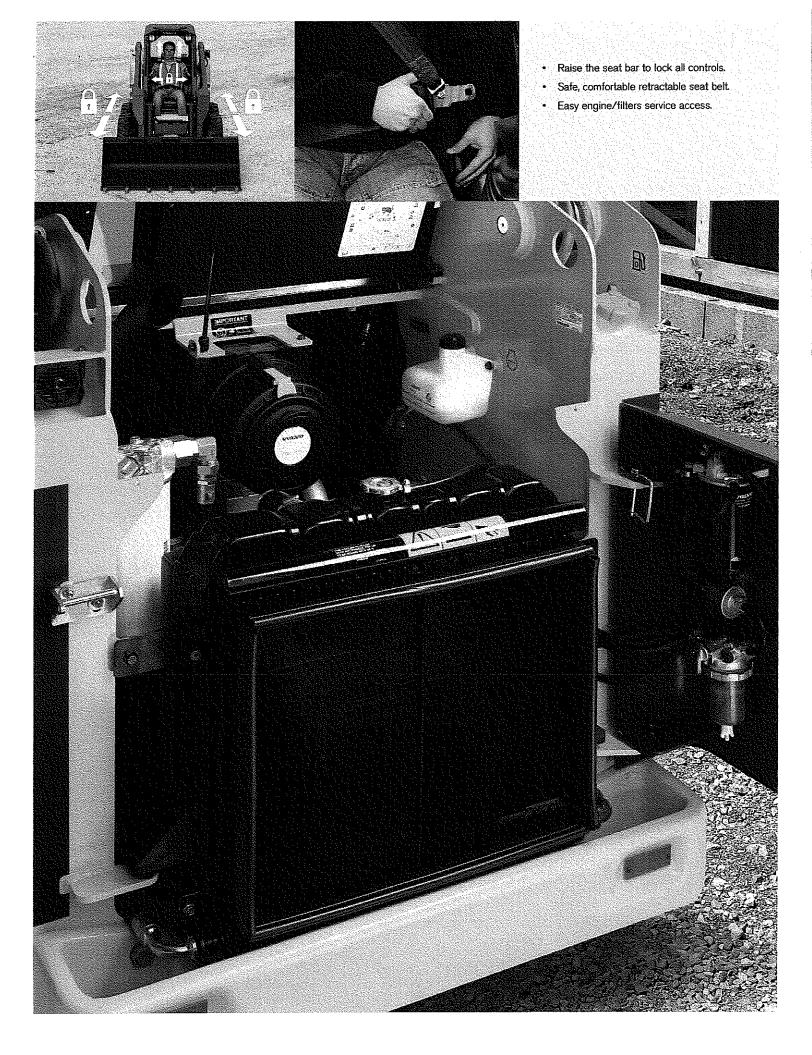
· Safe and easy cab entry/exit.



· Tilt-out oil cooler makes cleaning easy.

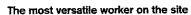


ROPS/FOPS cab tilts for fast access



GET ATTACHED TO GREATER PROFITS.

For functional solutions that take your productivity in new directions, the answer is Volvo attachments. With Volvo's universal quick-attach, you have the ability to tackle a wide range of jobs with speed and ease. Dig, grab, trench, rake and move more on your way to greater profits.



Compact, yet powerful, Volvo Skid Steer Loaders are one of the most versatile machines on the jobsite. At the front of it all is the wide range of productive attachments. Sometimes the job calls for hauling earth, cutting trenches or digging postholes. Other times you need to move palletized material or break concrete. With Volvo attachments, you're ready for every job — with one machine: your Volvo Skid Steer Loader.

The quick way to go

The Volvo universal quick-attach helps you get more done – faster. By letting you use most attachments available today, you can maximize use of your existing attachments or those on the jobsite. The flat-face hydraulic couplers make connections easy and secure.

A bucket for every occasion

Buckets are not one-size-fits-all.
That's why Voivo offers different bucket options for the ideal fit. Each features a heavy-duty skid bar. High carbon bolt-on cutting edges provide superior edge life and durability. Whether you need a long-lip landscape bucket for good visibility to the cutting edge and corners, or a short-lip dirt bucket for higher breakout force, Volvo has the bucket size and type to fit your needs. Choose from various dirt, light material, and landscaping buckets. You can also add some teeth to your job with a toothbar for greater flexibility.

Always on track

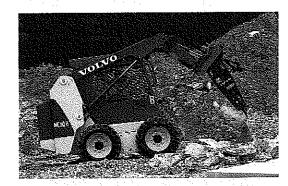
When terrain conditions get rough, be ready with simple to install over-the-tire steel tracks. Adjustable track tension ensures long, durable life.

A new breakthrough

With the hydraulic hammer you've got the consistent impact energy you need to break through hard materials. It has simple service of tool and seals, and a broad hydraulic flow operating range for compatibility across machine sizes.

From pallets forks to power rakes

One set of Volvo pailet forks offers handling for all the skid steers in your fleet. You get strength to handle heavy loads and optimum visibility through the frame and guard. It doesn't end there. Volvo Skid Steer Loaders are compatible with many other attachments, including trenchers, grapple buckets, sweepers, augers, cold planers, pickup brooms, and power rakes. You find the job, we'll provide the attachment.



. Break it up with the hydraulic hammer.



A clean sweep for dust, dirt, debris and snow.



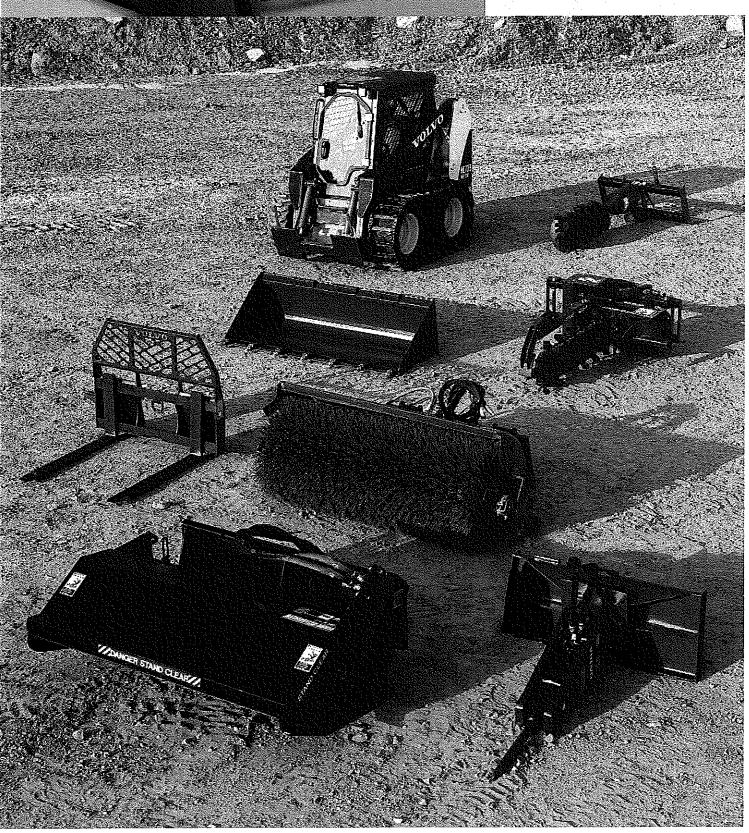
· Trencher cuts through the job with ease.



· The road to smooth operation.



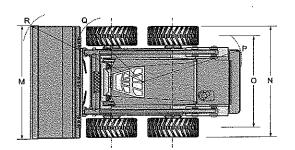
- Quick change universal attachment bracket.
- Optional high flow hydraulic for high performance.
- Quickly change attachments.



SPECIFICATIONS - MC60B, MC70B

	Engine	MC60B	MC70B
Past type	Model	Volvo D2.2A	Volvo D2.0A
Displacement	Cylinders	4	4
Aspiration	Fuel type	Diesel	Diesel
Liquid cooled Liquid cooled Liquid cooled Liquid cooled Liquid cooled Horsepower SAE Orces 49.5 hp (36.9 kW) 57.2 hp (42.7 kW) SAE Orces 49.5 hp (36.9 kW) S3 hp (39.5 k	Displacement	134 in³ (2.2 l)	122 in³ (2 l)
Horsepower SAE Gross	Aspiration	Natural	Turbocharged
SAE Gross 49.5 hp (380 kW) 57.2 hp (427 kW)	Cooling system	Liquid cooled	Liquid cooled
SAE Net	Horsepower		
Max. Gloss torque	SAE Gross	49.5 hp (36.9 kW)	57.2 hp (42.7 kW)
Max no load Speed 3,210 rpm 3,210 rpm 3,000 rp	SAE Net	45.3 hp (33.7 kW)	53 hp (39.5 kW)
Electrical system Saltery 12 V - 120 Ah / 680 CCA 12 V - 120 Ah / 660 CCA Alternator 12 V - 55 A 12 V - 23 kW Saltery 12 V - 23 kW 12 V - 23 kW Saltery 12 V - 23 kW	Max. Gross torque	108 ft-lbs (140 Nm) @ 1,200 rpm	124 ft-lbs (160 Nm) @ 1,200 rpm
Bettery	Max no load Speed	3,210 rpm	3,210 rpm
Battery	Rated Speed	3,000 rpm	3,000 rpm
Alternator			
Starter		·	
Drivetrain Asle torque			
Axie torque 4,521 lbs-ft (6,131 Nm) 4,110 lbs-ft (5,573 Nm) Axie diameter 1.9 in (48,26 mm) 1.9 in (48,26 mm) Drive chain 80 HV - Heavy series 80 HV - Heavy series Tires 10,00-16,5, 8-PR 10,00-16,5, 10-PR Hydraulics system-Loader Std hydraulic pump output flow @ rated rpm 17.1 gpm (64,8 ipm) 17.1 gpm (64,8 ipm) High flow pump output @ rated rpm 2,500 psi (172 bar) 2,500 psi (172 bar) System pressure 2,500 psi (172 bar) 2,500 psi (172 bar) Service capacities Cooling system 4.0 US gal (9 1) 4.0 US gal (9 1) Engine crankcase with filler, change 9,5 ct (8,95 1) 9,5 ct (8,95 1) Fuel tank 17.3 US gal (65,5 1) 17.3 US gal (65,5 1) Hydraulic System - Total capacity 13.1 US gal (56,6 1) 13.1 US gal (56,6 1) Hydraulic Reservoir Capacity 10 US gal (37,76 1) 10 US gal (37,76 1) Performance Rated operating capacity (SAE) 1,400 lbs (635 kg) 1,500 lbs (680 kg) Tipping capacity (SAE) 2,878 lbs (1,308 kg) 3,011 lbs (1,863 kg) Maximim travel speed 6,9 mph (11 km/h) 7,5 mph (121 km/h) Breakout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,537 daN) Breskout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,611 daN) Cycle time: Raise (Lifting) 3,6 seconds 2,2 seconds 5,4 seconds Dump (Tilt forward) 2,4 seconds	Starter	12 V - 2.3 kW	12 V - 2.3 KW
Axie diameter 1.9 in (48.26 mm) 1.9 in (48.26 mm) 1.9 in (48.26 mm) Drive chain 80 HV - Heavy series 80 HV - Heavy series 10.00-16.5, 8-PR 10.00-16.5, 10-PR	Drivetrain		
Drive chain 80 HV - Heavy series 80 HV - Heavy series 10.00-16.5, 10-PR	Axle torque	4,521 lbs-ft (6,131 Nm)	4,110 lbs-ft (5,573 Nm)
Tires	Axle diameter	1.9 in (48.26 mm)	
Hydraulics system-Loader Std hydraulic pump output flow @ rated rpm 17.1 gpm (64.8 lpm) 17.1 gpm (64.8 lpm) 17.1 gpm (64.8 lpm) 18.5 gpm (108 lpm) 19.5 gpm (108 lp	Drive chain	80 HV - Heavy series	
17.1 gpm (64.8 lpm)	Tires	10.00-16.5, 8-PR	10.00-16.5, 10-PR
System pressure 2,500 psi (172 bar) 2,500 psi (172 bar)		17.1 gpm (64.8 lpm)	17.1 gpm (64.8 lpm)
Service capacities	High flow pump output @ rated rpm		
Cooling system 4.0 US gal (9 i) 4.0 US gal (9 i) Engine crankcase with filter, change 9.5 qt (8.95 i) 9.5 qt (8.95 i) Fuel tank 17.3 US gal (65.5 i) 17.3 US gal (65.5 i) Hydraulic System - Total capacity 13.1 US gal (66.8 i) 13.1 US gal (56.8 i) Hydraulic Reservoir Capacity 10 US gal (37.76 i) 10 US gal (37.76 i) Performance Rated operating capacity (SAE) 1,400 lbs (635 kg) 1,500 lbs (680 kg) Tipping capacity (SAE) 2,878 lbs (1,308 kg) 3,011 lbs (1,363 kg) Operating weight 5,624 lbs (2,551 kg) 5,901 lbs (2,632 kg) Maximim travel speed 6,9 mph (11 km/h) 7,5 mph (12.1 km/h) Breakout force, lift 3,501 lbf (1,228 daN) 3,491 lbf (1,537 daN) Breakout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,611 daN) Cycle time: Raise (Lifting) 3.6 seconds 2.2 seconds Dump (Tilt forward) 2.4 seconds 2.4 seconds 2.4 seconds 3.6 seconds 3.6 seconds 2.7 seconds 3.7 seconds 3.8 seconds 3.9 seconds 3.9 seconds 3.9 seconds 3.1 seconds 3.1 seconds 3.1 seconds 3.2 seconds 3.3 seconds 3.4 seconds 3.5 seconds 3.6 seconds 3.7 seconds 3.7 seconds 3.8 seconds 3.9 seconds 3.9 seconds 3.9 seconds 3.0	System pressure	2,500 psi (172 bar)	2,500 psi (172 bar)
Engine crankcase with filter, change 9.5 qt (8.95 l) 9.5 qt (8.95 l) 17.3 US gal (65.5 l) 17.3 US gal (65.6 l) 17.3 US gal (65.8 l) 17.5 US gal (65.5 l) 17.	•	4.0 US gal (9 i)	4.0 US gal (9 l)
Fuel tank 17.3 US gal (65.5 l) 17.3 US gal (65.5 l) Hydraulic System - Total capacity 13.1 US gal (56.8 l) 13.1 US gal (56.8 l) Hydraulic Reservoir Capacity 10 US gal (37.76 l) 10 US gal (37.76 l) Performance Rated operating capacity (SAE) 1,400 lbs (635 kg) 1,500 lbs (680 kg) Tipping capacity (SAE) 2,878 lbs (1,308 kg) 3,011 lbs (1,363 kg) Operating weight 5,624 lbs (2,551 kg) 5,801 lbs (2,632 kg) Maximim travel speed 6.9 mph (11 km/h) 7.5 mph (12.1 km/h) Breakout force, lift 3,501 lbf (1,228 daN) 3,491 lbf (1,537 daN) Breakout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,611 daN) Cycle time: Raise (Lifting) 3.6 seconds 3.6 seconds Lower (Power down) 2.2 seconds 2.2 seconds Dump (Tit forward) 2.4 seconds 2.4 seconds			
Hydraulic System - Total capacity 13.1 US gal (56.8 l) 13.1 US gal (56.8 l)			The state of the s
Hydraulic Reservoir Capacity 10 US gal (37.76 i) 10 US gal (37.76 i)			······································
Rated operating capacity (SAE) 1,400 lbs (635 kg) 1,500 lbs (680 kg) Tipping capacity (SAE) 2,878 lbs (1,308 kg) 3,011 lbs (1,363 kg) Operating weight 5,624 lbs (2,551 kg) 5,801 lbs (2,632 kg) Maximim travel speed 6.9 mph (11 km/h) 7.5 mph (12.1 km/h) Breakout force, lift 3,501 lbf (1,228 daN) 3,491 lbf (1,537 daN) Breakout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,611 daN) Cycle time: Raise (Lifting) 3.6 seconds 3.6 seconds Lower (Power down) 2.2 seconds 2.2 seconds Dump (Tit forward) 2.4 seconds 2.4 seconds		10 US gal (37.76 i)	10 US gal (37.76 i)
Tipping capacity (SAE) 2,878 lbs (1,308 kg) 3,011 lbs (1,363 kg) Operating weight 5,624 lbs (2,551 kg) 5,801 lbs (2,632 kg) Maximim travel speed 6.9 mph (11 km/h) 7.5 mph (12.1 km/h) Breakout force, lift 3,501 lbf (1,228 daN) 3,491 lbf (1,537 daN) Breakout force, curl 4,102 lbf (1,740 daN) 4,102 lbf (1,611 daN) Cycle time: Raise (Lifting) 3.6 seconds 3.6 seconds Lower (Power down) 2.2 seconds 2.2 seconds Dump (Tit forward) 2.4 seconds 2.4 seconds			
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Dump (Tilt forward) 2.4 seconds 2.4 seconds	Raise (Lifting)	, , , , , , , , , , , , , , , , , , , 	
**************************************		· · · · · · · · · · · · · · · · · · ·	
Curl (Tilt back) 1.9 seconds 1.9 seconds	Water Control of the		
	Curl (Tilt back)	1.9 seconds	1.9 seconds

Specifications are in accordance with SAE and ISO recommended practice. They are provided for machines with dirt bucket, and tires specified in the drivetrain section of the data sheet. Rated operating capacity (SAEJ818) is equal to no more than 50% of tipping capacity.

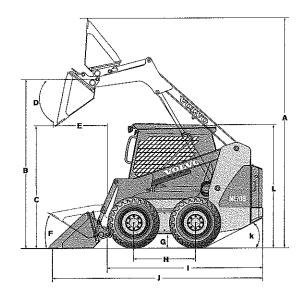


- Overall operating height Height to hinge pin Dump height Dump angle Dump reach Roll back angle Ground clearance

- ABCDEFGH
- Wheelbase
- Overall length (L/bucket)
- J Overall length (W/bucket)
 K Angle of departure
 L Overall height
 M Bucket width

- Over tire width (L/bucket)
- Tread width

- Turning radius rear
 Turning radius front L/bucket
 Turning radius front W/bucket



Model	A	. B	c	D	E		G	Н	ı
MC60B	148.1" (3,762 mm)	113.7" (2,888 mm)	86.22" (2,190 mm)	41°	25.4" (646 mm)	25°	8.2" (208 mm)	40.4" (1,026 mm)	105.8" (2,688 mm)
MC70B	148.1" (3,762 mm)	113.7" (2,888 mm)	86.22" (2,190 mm)	41°	25.4" (646 mm)	25°	8.2" (208 mm)	40,4" (1,026 mm)	105.8" (2,688 mm

Model	1	K	L	i i	N	0	P	a	R
MC60B	130.2" (3,306 mm)	26°	78.3" (1,990 mm)	68.0 " (1,727 mm)	59.7" (1,516 mm)	49.1" (1,246 mm)	55" (1,398 mm)	58.4" (1,484 mm)	85.5" (2,172 mm)
МС70В	130.2" (3,306 mm)	26°	78.3" (1,990 mm)	68.0" (1,727 mm)	65.2" (1,656 mm)	54.5" (1,385 mm)	55" (1,398 mm)	58.4" (1,484 mm)	85.5" (2,172 mm)

Data with pallet fork (ISO 14397)	Tipping load				
of gravity	MC60B	MC70B			
42"	2,044 lbs	2,127 lbs			
(1,067 mm)	(927 kg)	(965 kg)			
48"	1,871 lbs	2,016 lbs			
(1,219 mm)	(849 kg)	(915 kg)			

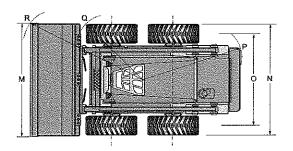
Data with pallet fork (ISO 14397)	Rated Operating Capacity					
of gravity	MC60B	MC70B				
42"	1,022 lbs	1,064 lbs				
(1,067 mm)	(464 kg)	(483 kg)				
48"	936 lbs	1,008 lbs				
(1,219 mm)	(424 kg)	(457 kg)				

Data According	Bucket					
to Bucket Type		Width	Weight	SAE Heaped cap	SAE Struck cap	
	Dirt Bucket	62"	450 lbs	13.09 ft	9.2 ft³	
	W/bolt-on edge	(1,575 mm)	(204.2 kg)	(0.37 m³)	(0.26 m³)	
	Landscape Bucket	62"	470 lbs	14.6 ft ³	10.27 ft³	
	W/bolt-on edge	(1,575 mm)	(213.2 kg)	(0.41 m³)	(0.29 m³)	
	Landscape	62"	442 lbs	14.05 ft³	10.12 ft	
MC60B	Bucket W/Teeth	(1,575 mm)	(200.7 kg)	(0.40 m³)	(0.29 m³)	
MC70B	Dirt Bucket	68"	481lbs	14.5 ft³	10.12 ft³	
	W/bolt-on edge	(1,727 mm)	(218 kg)	(0.41 m³)	(0.29 m³)	
	Landscape Bucket	68"	501 lbs	16.16 ft³	11.31 ft³	
	W/bolt-on edge	(1,727 mm)	(227.4 kg)	(0.46 m³)	(0.32 m³)	
	Landscape	68"	473 lbs	15.65 ft³	11.14 ft³	
	Bucket W/Teeth	(1,727 mm)	(214.5 kg)	(0.44 m³)	(0.32 m³)	
25.25.45.55	Dirt	74"	456 lbs	16.1 ft³	11.55 ft³	
	Bucket	(1,880 mm)	(207 kg)	(0.46 m³)	(0.33 m³)	
	Dirt Bucket	74"	520 lbs	16.71 ft³	11.8 ft³	
MC70B	W/bolt-on edge	(1,880 mm)	(236 kg)	(0.47 m³)	(0.33 m³)	
MC/UD	Landscape Bucket	74"	548 lbs	19 ft³	13.3 ft³	
	W/bolt-on edge	(1,880 mm)	(248.4 kg)	(0.54 m³)	(0.38 m³)	
	Landscape	74"	514 lbs	18.42 ft³	13.11 ft³	
	Bucket W/Teeth	(1,880 mm)	(233 kg)	(0.52 m³)	(0.37 m³)	

SPECIFICATIONS - MC80B, MC90B, MC110B

Engine	MC80B	MC90B	MC110B
Model	Velvo D3.4A	Volvo D3.4A	Volvo D3.4A
Cylinders	4	4	4
Fuel type	Diesel	Diesel	Diesel
Displacement	201 in ³ (3.3 l)	201 in³ (3.3 l)	201 in* (3.3 i)
Aspiration	Natural	Turbocharged	Turbocharged
Cooling system	Liquid cooled	Liquid cooled	Liquid cooled
Horsepower			
SAE Gross	67.3 hp (50.2 kW)	82.6 hp (61.6 kW)	82.6 hp (61.6 kW)
SAE Net	65.2 hp (48.6 kW)	80.5 hp (60 kW)	80.5 hp (60 kW)
Max. Gross torque	184 ft-lbs (250 Nm) @ 1,000 rpm	224 ft-lbs (305 Nm) @ 1,800 rpm	224 ft-lbs (305 Nm) @ 1,800 rpm
Max no load Speed	2,590 rpm	2,820 rpm	2,620 rpm
Rated Speed	2,400 rpm	2,400 rpm	2,400 rpm
Electrical system			
Battery	12 V - 120 Ah / 660 CCA	12 V - 120 Ah / 660 CCA	12 V - 120 Ah / 660 CCA
Alternator	12 V - 55 A	12 V - 55 A	12 V - 55 A
Starter	12 V - 3 kW	12 V - 3 kW	12 V - 3 kW
Drivetrain			
Axle torque	5,029 lbs-ft (6,819 Nm)	5,029 lbs-ft (6,819 Nm)	6,249 lbs-ft (8,474 Nm)
Axle diameter	1.9 in (48.26 mm)	1.9 in (48.26 mm)	2.4 in (60.96 mm)
Drive chain	80 HV - Heavy series	80 HV - Heavy series	100 HV - Heavy series
Tires	12.00-16.5, 12-PR	12.00-16.5, 12-PR	12.00-16.5, 12-PR
Hydraulics system-Loader Std hydraulic pump output flow @ rated rpm	20.3 gpm (76.7 fpm)	20.3 gpm (76.7 lpm)	20.3 gpm (76.7 lpm)
High flow pump output @ rated rpm		27.4 gpm (103.7 lpm)	27.4 gpm (103.7 ipm)
System pressure	2,700 psi (186 bar)	2,700 psi (186 bar)	2,700 psi (186 bar)
Service capacities			
Cooling system	4.4 US gal (15.5 l)	4.4 US gai (15.5 l)	4.4 US gal (15.5 l)
Engine crankcase with filter, change	11.5 qt (10.95 l)	11.6 qt (10.95 i)	10.3 qt (9.75 l)
Fuel tank	23 US gal (87 l)	23 US gal (87 i)	24.3 US gai (87 l)
Hydraulic System - Total capacity	25.7 US gal (97.3 l)	25.7 US gal (97.3 l)	27.3 US gal (103.3 l)
Hydraulic Reservoir Capacity	17.1 US gal (64.7 l)	17.1 US gal (64.7 l)	18.2 US gal (68.8 l)
Performance			
Rated operating capacity (SAE)	1,850 lbs (839 kg)	2,000 lbs (907 kg)	2,400 (bs (1,088 kg)
Tipping capacity (SAE)	3,770 lbs (1,710 kg)	4,016 lbs (1,825 kg)	4,804 lbs (2,184 kg)
Operating weight (SAE)	6,824 lbs (3,096 kg)	6,985 lbs (3,169 kg)	7,480 lbs (3,394 kg)
Maximum travel speed	6.3 mph (10.2 km/h)	6.7 mph (10.8 km/h)	6.2 mph (010 km/h)
Breakout force, lift	4,060 lbf (1,807 daN)	4,543 lbf (2,022 daN)	5,221 lbf (2,323 daN)
Breakout force, curl	7,532 lbf (3,352 daN)	7,531 lbf (3,351 daN)	7,537 lbf (3,354 daN)
Cycle time:			
Raise (Lifting)	4.8 seconds	4.8 seconds	4.8 seconds
Lower (Power down)	3.2 seconds	3.2 seconds	3.2 seconds
Dump (Tilt forward)	3.2 seconds	3.2 seconds	3.2 seconds
Curl (Tilt back)	2.4 seconds	2.4 seconds	2.4 seconds

Specifications are in accordance with SAE and ISO recommended practice. They are provided for machines with dirt bucket, and tires specified in the drivetrain section of the data sheet. Rated operating capacity (SAEJ818) is equal to no more than 50% of tipping capacity.

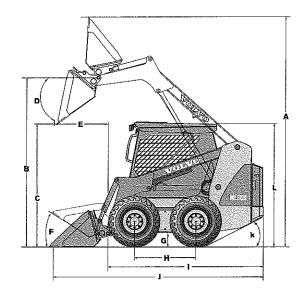


- Overall operating height
 Height to hinge pin
 Dump height
 Dump angle
 Dump reach
 Roll back angle
 Ground clearance
 Wheelbase
 Overall length (L/bucket)
- A B C D E F G H |

- Overall length (W/bucket)
 Angle of departure
 Overall height
 Bucket width
 Over tire width (L/bucket)
 Tread width
 Turning radius rear
 Turning radius front L/bucket
 Turning radius front W/bucket

- K L M N O P

- Q R



Model	A	В	C	D	/ E	F	G	н	.
мС80В	157.5" (4,001 mm)	121.3 " (3,080 mm)	91.8" (2,332 mm)	40°	23.3" (592 mm)	25°	9.3 " (236 mm)	40.1 " (1,018 mm)	138" (3,504 mm)
мсэов	157.5" (4,001 mm)	121,3" (3,080 mm)	91.8" (2,332 mm)	40°	22.3" (566 mm)	25°	9.3" (236 mm)	42.1" (1,070 mm)	137.9" (3,503 mm)
MC110B	157.3" (3,996 mm)	121.1" (3,075 mm)	91.6" (2,327 mm)	40°	22.3" (566 mm)	25°	9 " (228 mm)	43.6 " (1,106 mm)	140.8" (3,576 mm)

Model	j	ĸ	L.	M	N	0	P	Q	R
MC80B	138" (3,504 mm)	26°	81.5" (2,069 mm)	74" (1,880 mm)	72.3" (1,836 mm)	59.7" (1,517 mm)	57.6 (1,464 mm)	62.8 (1,594 mm)	91.3 (2,318 mm)
MC90B	137.9 " (3,503 mm)	27°	81.5" (2,069 mm)	74" (1,880 mm)	72.3" (1,836 mm)	59.7" (1,517 mm)	56.2 (1,428 mm)	64 (1,625 mm)	92.5 (349 mm)
MC110B	140.8" (3,576 mm)	25°	81.3" (2,064 mm)	74" (1,880 mm)	72.3" (1,836 mm)	59.7" (1,517 mm)	57.4 (1,458 mm)	65.7 (1,668 mm)	94.1 (2,391 mm)

Data with pallet fork (ISO 14397)	Tipping load		
of gravity	мс80В	MC90B	MC110B
42"	2,593 lbs	3,017 lbs	3,525 lbs
(1,067 mm)	(1,176 kg)	(1,369 kg)	(1,599 kg)
48"	2,565 lbs	2,824 lbs	3,361 lbs
(1,219 mm)	(1,164 kg)	(1,281 kg)	(1,525 kg)

Data with pallet fork (ISO 14397)	Rated Operating Capacity		
of gravity	мс80В	MC90B	MC110B
42" (1,067 mm)	1,297 lbs (588 kg)	1,509 lbs (684 kg)	1,763 lbs (800 kg)
48" (1,219 mm)	1,283 lbs (582 kg)	1,412 lbs (641 kg)	1,681 lbs (762 kg)

Data According to Bucket Type	Bucket		A		
		Width	Weight	SAE Heaped cap	SAE Struck cap
	Dirt Bucket	74" (1,880 mm)	456 lbs (207 kg)	16.1 ft ³ (0.46 m ³)	11.55 ft ² (0.33 m³)
	Dirt Bucket w/bolt-on edge	74" (1,880 mm)	520 lbs (236 kg)	16.71 ft ³ (0.47 m ³)	11.8 ft ^s (0.33 m³)
	Landscape Bucket w/bolt-on edge	74" (1,880 mm)	548 lbs (248.4 kg)	19 ft³ (0.54 m³)	13,3 ft³ (0.38 m³)
MC80B MC90B MC110B	Landscape Bucket w/Teeth	74" (1,880 mm)	514 lbs (233 kg)	18.42 ft ³ (0.52 m³)	13.11 ft² (0.37 m³)
	Dirt Bucket w/bolt-on edge	82" (2,083 mm)	560 lbs (254 kg)	18.66 ft ^a (0.53 m³)	13.11 ft³ (0.37 m³)
	Landscape Bucket w/bolt-on edge	82" (2,083 mm)	591 lbs (268 kg)	21.24 ft ³ (0.60 m ³)	14.78 ft ³ (0.42 m ³)
	Landscape Bucket w/Teeth	82" (2,083 mm)	553 lbs (251 kg)	20.58 ft ² (0.58 m ³)	14.53 ft ² (0.41 m³)

MC60B, MC70B, MC80B, MC90B, MC110B

STANDARD EQUIPMENT

Engine

Volvo brand, 4-cylinder, liquid-cooled, 16-valve, direct-injection diesel engines Meet US EPA Tier II standards Self-cleaning, dual-element, air cleaner Dual-element dry air cleaner Remote-mount fuel filter Remote-mount water separator Remote-mount electric fuel pump 12-Volt Heavy-duty starter Alternator with internal regulator Quick-cycle engine preheat Engine oil remote drain hose High-capacity radiator Anti-freeze protection to -35 degrees F Separate, tilt-out hydraulic oil cooler

Heavy-duty, maintenance-free battery Engine start/stop key switch Fuel gauge Coolant temperature gauge Hourmeter Two front 50-Watt work lights Master electrical shut-off switch In-cab fuse panel accessible without tools Sealed electrical connectors meet IP65 water ingress standard

Warning lights:

Air fifter restriction, alternator output, seat belt use, hydraulic filter restriction, hydraulic oil temperature

Warning lights with audible alarm: Engine coolant temperature, engine oil pressure and hydraulic oil temperature

MC60B, MC70B, MC80B:

two variable displacement piston pumps mounted in tandem

MC90B, MC110B:

two servo-assisted variable displacement piston pumps mounted in tandem

Two fixed displacement high torque motors

Lift-arm mounted auxiliary hydraulics with standard flat face couplers (ISO 16028) 10 micron hydraulic oil filter

Lift-arm support strut Electric lift and tilt hydraulic lockouts Back-up alarm

Automatic parking brake Emergency exit rear window Rear and top door props

Cab

Top window Rear window/secondary escape. Deluxe, high-back, super-comfort seat with fore-aft adjustment and seatback angle adjustment 2" retractable seat belt Operator seat bar Dual travel/steering levers

Dual, adjustable-angle foot pedals Tilt forward ROPS/FOPS cab

12-Volt power accessory outlet

Lockable rear door and engine cover Quick-Attach mounting frame Lockable fuel cap

OPTIONAL EQUIPMENT

Cab

Adjustable suspension seat Cab enclosure with side windows, heater/blower, lap/shoulder belt, front door with washer/wiper Cab enclosure with side windows, heater/blower, air-conditioning, lap/shoulder belt, front door with washer/wiper Special applications kit with polycarbonate front door and lap/shoulder belt 3" retractable seat belt. Retractable lap belt & shoulder belt 4-Point lift kit

Controls

Pilot-operated joystick controls with electro-proportional auxiliary hydraulic

Pilot-operated joystick controls 5-button attachment control w/Harness & 14-pin connector plug

Engine

Engine block heater Engine auto-shutdown system

Hydraulics

Hydraulic reservoir heater High flow hydraulics Hydraulic self-level (lift only)

Electrical

Rotating beacon light Rear work lights Anti-theft keypad

Tires

Standard duty lug tires Heavy-duty lug Tires Heavy-duty wide flotation lug tires Non-pneumatic solid tires Over-the-tire steel tracks







Volvo Construction Equipment is different. It's designed, built and supported in a different way. That difference comes from our 170-year engineering heritage. A heritage of thinking first about the people who actually use the machines. About how to help them be safer, more comfortable, more productive. About the environment we all share. The result of that thinking is a growing range of machines and a global support network dedicated to helping you do more. People around the world are proud to use Volvo. And we're proud of what makes Volvo different — **More care. Built in.**

All products are not available in all markets. Under our policy of continuous improvement, we reserve the right to change specifications and design without prior notice. The illustrations do not necessarily show the standard version of the machine.



Construction Equipment

WV-36a STATE OF WEST VIRGINIA

PURCHASING CONTINUATION SHEET

Buyer: Page Req. or P.O. No.:

JJ-33 33 707FC020

Spending Unit:

Vendor:

Requisition No.: 707ECO20

ADDENDUM ACKNOWLEDGEMENT

I hereby acknowledge receipt of the following checked addendum(s) and have made the necessary revisions to my proposal, plans and/or specifications, etc.

Addendum No.'s:

No. 1 X

No. 2 X

No. 3 X

No. 4 X

No. 5 X

I understand that failure to confirm the receipt of the addendum(s) may be cause for rejection of bids.

Signature

RUDD EQUIPMENT COMPANY

Company

5/9/07 Date WV-96 Rev. 5/94

ACCEPTED DV

AGREEMENT ADDENDUM

In the event of conflict between this addendum and the agreement, this addendum shall control:

- ARBITRATION Any references to arbitration contained in the agreement are hereby deleted. Disputes arising out of the agreement shall be presented to the West Virginia Court of Claims.
- 2. HOLD HARMILESS Any clause requiring the Agency to indemnify or hold harmless any party is hereby deleted in its entirety.
- GOVERNING LAW The agreement shall be governed by the laws of the State of West Virginia. This provision replaces any references to any other State's governing law.
- 4. TAXES Provisions in the agreement requiring the Agency to pay taxes are deleted. As a State entity, the Agency is exempt from Federal, State, and local taxes and will not pay taxes for any Vendor including individuals, nor will the Agency file any tax returns or reports on behalf of Vendor or any other party.
- 5. PAYMENT Any references to prepayment are deleted. Payment will be in arrears.
- INTEREST Should the agreement include a provision for interest on late payments, the Agency agrees to pay the maximum legal rate under West Virginia law.
 All other references to interest or late charges are deleted.
- 7. RECOUPMENT Any language in the agreement waiving the Agency's right to set-off, counterclaim, recoupment, or other defense is hereby deleted.
- 8. FISCAL YEAR FUNDING Service performed under the agreement may be continued in succeeding fiscal years for the term of the agreement, contingent upon funds being appropriated by the Legislature or otherwise being available for this service. In the event funds are not appropriated or otherwise available for this service, the agreement shall terminate without penalty on June 30. After that date, the agreement becomes of no effect and is null and void. However, the Agency agrees to use its best efforts to have the amounts contemplated under the agreement included in its budget. Non-appropriation or non-funding shall not be considered an event of default.
- 9. STATUTE OF LIMITATION Any clauses limiting the time in which the Agency may bring suit against the Vendor, lessor, individual, or any other party are deleted.
- 10. <u>SIMILAR SERVICES</u> Any provisions limiting the Agency's right to obtain similar services or equipment in the event of default or non-funding during the term of the agreement are hereby deleted.
- ATTORNEY FEES The Agency recognizes an obligation to pay attorney's fees or costs only when assessed by a court of competent jurisdiction. Any other
 provision is invalid and considered null and void.
- 12. <u>ASSIGNMENT</u> Notwithstanding any clause to the contrary, the Agency reserves the right to assign the agreement to another State of West Virginia agency, board or commission upon thirty (30) days written notice to the Vendor and Vendor shall obtain the written consent of Agency prior to assigning the agreement.
- 13. LIMITATION OF LIABILITY The Agency, as a State entity, cannot agree to assume the potential liability of a Vendor. Accordingly, any provision limiting the Vendor's liability for direct damages or limiting the Vendor's liability under a warranty to a certain dollar amount or to the amount of the agreement is hereby deleted. In addition, any limitation is null and void to the extent that it precludes any action for injury to persons or for damages to personal property.
- 14. RIGHT TO TERMINATE Agency shall have the right to terminate the agreement upon thirty (30) days written notice to Vendor.
- 15. TERMINATION CHARGES Any provision requiring the Agency to pay a fixed amount or liquidated damages upon termination of the agreement is hereby deleted. The Agency may only agree to reimburse a Vendor for actual costs incurred or losses sustained during the current fiscal year due to wrongful termination by the Agency prior to the end of any current agreement term.
- 16. RENEWAL Any reference to automatic renewal is hereby deleted. The agreement may be renewed only upon mutual written agreement of the parties.
- 17. INSURANCE Any provision requiring the Agency to insure equipment or property of any kind and name the Vendor as beneficiary or as an additional insured is hereby deleted.
- 18. <u>RIGHT TO NOTICE</u> Any provision for repossession of equipment without notice is hereby deleted. However, the Agency does recognize a right of repossession with notice.
- 19. ACCELERATION Any reference to acceleration of payments in the event of default or non-funding is hereby deleted.
- 20. <u>AMENDMENTS</u> All amendments, modifications, alterations or changes to the agreement shall be in writing and signed by both parties. No amendment, modification, alteration or change may be made to this addendum without the express written approval of the Purchasing Division and the Attorney General.

STATE OF WEST VIRGINIA	VENDOR
Spending Unit:	Company Name: RUDD EQUIPMENT COMPANY
Signed:	Signed: John Hamph
Title:	Title: VICE PRESIDENT
Date:	Date:5/9/07

RFQ	NIo	ブハフセへハッハ
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AFFIDAVIT

West Virginia Code §5A-3-10a states:

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 the debt owned is an amount greater than one thousand dollars in the aggregate

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.

"Debtor" means any individual, corporation, partnership, association, limited liability company or any other form or business association owing a debt to the state or any of its political subdivisions. "Political subdivision" means any county commission; municipality; county board of education; any instrumentality established by a county or municipality; any separate corporation or instrumentality established by one or more counties or municipalities, as permitted by law; or any public body charged by law with the performance of a government function or whose jurisdiction is coextensive with one or more counties or municipalities. "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.

EXCEPTION:

The prohibition of this section does not apply where a vendor has contested any tax administered pursuant to chapter eleven of this 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.

LICENSING:

Vendors must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agencies or political subdivision. Furthermore, the vendor must provide all necessary releases to obtain information to enable the Director or spending unit to verify that the vendor is licensed and in good standing with the above entities.

CONFIDENTIALITY:

The vendor agrees that he or she will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the agency's policies, procedures and rules. Vendors should visit www.state.wv.us/admin/purchase/privacy for the Notice of Agency Confidentiality Policies.

Under penalty of law for false swearing (West Virginia Code, §61-5-3), it is hereby certified that the vendor acknowledges the information in this said affidavit and are in compliance with the requirements as stated.

Vendor's Name:	RUDD EQUAPMENT COMPANY	
Authorized Signatu	e: John Hamthe	Date: 5/9/07

No Debt Affidavit (Revised 10/13/06)