

**BID SPECIFICATIONS
FOR
TRUCK-MOUNTED HYDRAULIC EXCAVATOR-OPTION B
GRADALL XL 3100
\$271,413.00 (INCLUDING OPTIONS)**

GENERAL

These specifications shall be construed as the minimum acceptable standards for a truck mounted telescopic boom hydraulic excavator. Should the manufacturer's current published data or specifications exceed these standards, the manufacturer's standards shall be considered minimum and shall be furnished. All integral parts not specifically mentioned in the scope of these specifications that are necessary to provide a complete working unit shall be furnished. Additionally, the machine offered for bid shall include all standard manufacturer's equipment. The unit must be a new current production model and must meet all current EPA and other Federal standards. The manufacturers printed literature shall be submitted with the bid.

BID SUBMITTAL FORM

Each bidder must submit his or her bid on the Bid Submittal Form included in the Invitation to Bid package. All written warranties to be submitted shall be attached to the Bid Submittal Form.

BID PRICE

The bid price shall include all destination charges, delivery charges, title fees, rebates, and all other applicable costs and refunds.

MANUALS

EACH UNIT SHALL BE PROVIDED WITH ONE (1) COPY OF THE OPERATOR'S MANUAL, ONE (1) COPY OF THE REPAIR MANUAL AND ONE (1) COPY OF THE CURRENT PARTS MANUAL. UNITS WILL NOT BE ACCEPTED FOR DELIVERY UNTIL THE MANUALS AS OUTLINED ABOVE ARE RECEIVED BY THE PURCHASER.

REPLACEMENT PARTS AVAILABILITY

Parts must be available for 5 years or 7,500 hours of use for the piece of equipment. If any replacement parts are not delivered within three (3) working days of an order being placed, the bidder will deliver an equivalent machine for the county to use at no cost to the county until such time as the parts are delivered to the county so it can repair the machine.

FILTERS

The cost of all filters required to perform scheduled maintenance as outlined in the manufacturer's service schedule and to meet warranty requirements shall be included in the base bid price of the machine for the period of three years or 3600 hours. The filters shall be furnished with each machine

purchased or at the option of the purchasing county may be picked up at the dealership as needed. Assume 1200 hours of annual use to determine filter requirements.

WARRANTY

Bidders shall submit a copy of the manufacturer’s standard warranty and a 3-year, 3600 hour power train warranty along with a complete explanation of the warranty with their bid. Warranty shall include service response time of maximum of 36 hours within notification by county.

UPPERSTRUCTURE SPECIFICATIONS

Rotating Structure

The upperstructure shall be supported on the carrier by a swing bearing and shall be capable of continuous swing at not less than 8 RPM.

Yes ___ No ___
Page # _____

The counterweight shall weigh not more than 5500 pounds and the tail swing shall not exceed 7’6”.

Yes ___ No ___
Page # _____

Swing system shall incorporate a spring set, hydraulic release swing parking brake.

Yes ___ No ___
Page # _____

Anti-slip paint is required on all walking surfaces.

Yes ___ No ___
Page # _____

Boom

The boom shall be triangular in cross section and shall consist of a main section and a telescoping section.

Yes ___ No ___
Page # _____

Adjustable boom rollers shall be furnished on both boom sections.

Yes ___ No ___
Page # _____

The telescope section shall be equipped with a two-position quick-change bucket adapter and shall telescope hydraulically through a distance of not less than 11’.

Yes ___ No ___
Page # _____

The boom assembly shall be supported by a cradle that provides for the tilt of the entire boom assembly and attachment through an arc of not less than 220° about its longitudinal axis.

Yes ___ No ___
Page # _____

The boom shall rise through an arc of not less than 32° and lower not less than 75°.

Yes ___ No ___
Page # _____

The attachment shall open and close through an arc of not less than 165°.

Yes ___ No ___

Page # _____

Hydraulic System

Power for the hydraulic system shall be supplied by the carrier engine.

Yes ___ No ___

Page # _____

There shall be two-piston pumps providing not less than 65 GPM @ 4100 PSI.

Yes ___ No ___

Page # _____

The system shall provide for each of the following:

Simultaneous boom

Yes ___ No ___

Page # _____

Swing and remote functions

Yes ___ No ___

Page # _____

Quick disconnect type pressure check ports

Yes ___ No ___

Page # _____

Minimum 45 HP swing motor

Yes ___ No ___

Page # _____

Minimum 18 HP tilt motor

Yes ___ No ___

Page # _____

2 remote drive motors with minimum 65 combined HP

Yes ___ No ___

Page # _____

Appropriate relief valves

Yes ___ No ___

Page # _____

Oil cooler and filter with service indicator

Yes ___ No ___

Page # _____

System operating pressure shall not exceed 4100 PSI

Yes ___ No ___

Page # _____

Cab & Controls

The operator's cab shall be all weather with safety glass windows and skylight.

Yes ___ No ___

Page # _____

The cab shall be complete with front window that rolls overhead for storage, wiper washer, four-way adjustable seat, acoustical treatment, signal horn, filtered fresh air conditioner, heater and defroster.

Yes ___ No ___

Page # _____

Controls shall be self-centering deadman type consisting of 2 hydraulic joysticks mounted on armrests and one rocker switch for all upperstructure movements.

Yes ___ No ___

Page # _____

Engine controls shall include key type ignition switch with neutral start and throttle. Yes ___ No ___
Page # _____

There shall be an automatic engine shutdown for low oil pressure or high coolant temperature. Yes ___ No ___
Page # _____

Remote carrier, propel steering and automatic digging brake shall be controlled by two-foot pedals. Yes ___ No ___
Page # _____

There shall be a rocker switch on the control panel to select high or low speed for the remote travel. Yes ___ No ___
Page # _____

The hydraulic remote control system shall be complete with an emergency brake control and travel alarm. Yes ___ No ___
Page # _____

UNDERCARRIAGE SPECIFICATIONS

CARRIER

The carrier shall be a diesel powered heavy-duty 4X2 unit specifically designed for the excavator described above and for use without stabilizers. Yes ___ No ___
Page # _____

Carrier shall have a wheelbase of not less than 156” Yes ___ No ___
Page # _____

Carrier shall have a minimum gross axle capacity rating of 37,600# Yes ___ No ___
Page # _____

Carrier shall have a highway travel speed minimum of 50 MPH when equipped with standard wheels and tires. Yes ___ No ___
Page # _____

FRAME

The frame shall be 48” wide, welded plate design of 50 ksi material with front and rear tow hooks. Yes ___ No ___
Page # _____

ENGINE

The carrier shall be powered by an EPA automotive certified 6 cylinder, 4-cycle turbo charged electronic controlled diesel engine of not less than 386 CID producing not less

than 190 gross HP at 2300 RPM.

Yes ___ No ___
Page # _____

Engine shall be 1998 EPA/CARB Automotive certified.

Yes ___ No ___
Page # _____

Engine shall be complete with dry type air cleaner with ejector valve and service indicator, spin-on fuel filter/water separator, vertical canister style lube filter, minimum 100 AMP alternator, and minimum 70 gallon fuel tank.

Yes ___ No ___
Page # _____

TRANSMISSION

The carrier shall be equipped with an Eaton Roadranger RTX-14609B, 9-speed forward, 2-speed reverse transmission.

Yes ___ No ___
Page # _____

A neutral start switch shall be provided.

Yes ___ No ___
Page # _____

AXLES & SUSPENSION

The front axle shall be a Meritor FG941, rated at minimum 14,600 lb..

Yes ___ No ___
Page # _____

The front suspension shall consist of minimum 8 leaf springs and shall incorporate automatic lockout cylinders.

Yes ___ No ___
Page # _____

The rear axles shall be a Meritor RS23-160 rated 23,000# with a 7.17 ratio, single reduction and operator controlled differential lock.

Yes ___ No ___
Page # _____

BRAKES

The carrier shall be equipped with four wheel cam actuated air brakes with auto slack adjusters.

Yes ___ No ___
Page # _____

The rear brakes shall Meritor "P" Series Cam-Master.

Yes ___ No ___
Page # _____

The front brakes shall Meritor "Q" Series Cam-Master.

Yes ___ No ___
Page # _____

The system shall be complete with a heated desiccant type air dryer.

Yes ___ No ___
Page # _____

WHEELS & TIRES

The carrier shall be equipped with hub piloted disc wheels with demountable rim and minimum 1500X22.5 16PR tires, single front with highway tread 1000X20 14PR dual rear with traction tread.

CAB & CONTROLS

The carrier cab shall be isolated from the frame on rubber mounts with tinted safety glass windows– sliding both sides, air-suspension seat with seat belt, windshield washer and wiper, fresh air type heater and defroster, and dome light.. Yes ___ No ___
Page # _____

The instrument panel shall include at minimum:

Backlighted gauges for engine temperature and oil pressure, dual air tank pressures, fuel level, voltmeter, hourmeter, speedometer with odometer, and tachometer. Yes ___ No ___
Page # _____

An engine shutdown system shall be controlled by the engine electronics. Yes ___ No ___
Page # _____

It shall be complete with engine monitor lights with diagnostic switches. Yes ___ No ___
Page # _____

Shall provide indicator lights for engagement of pump and rear axle differential lock. Yes ___ No ___
Page # _____

The carrier shall be complete with West Coast style mirrors system with plane and convex mirrors, Halogen headlights, tail lights, brake lights, back up lights, identification light clusters- front and rear, directional lights, four-way hazard lights, back-up alarm, full fenders, and anti-slip walking surfaces. Yes ___ No ___
Page # _____

BUCKET

Unit shall be equipped with a 60” ditching bucket. Yes ___ No ___
Page # _____

LIGHTS

Upperstructure shall be equipped with:

Minimum of two floodlights on boom cradle Yes ___ No ___
Page # _____

Four floodlights on the operator’s cab Yes ___ No ___
Page # _____

Two floodlights on the upperstructure shrouding

Yes ___ No ___
Page # _____

A safety amber strobe light shall be mounted on the operator’s cab.

Yes ___ No ___
Page # _____

OPTIONS

Bid must include the cost for each of the following options, itemized separately on the bid:

Fixed thumb grapple

Yes ___ No ___
Page # _____

30” pavement removal bucket

Yes ___ No ___
Page # _____

30” excavating bucket

Yes ___ No ___
Page # _____

Additional 2 years of filters based on 1200 hours per year use

Yes ___ No ___
Page # _____

An extended power train warranty that covers an additional two (2) years or an additional 2400 hours, whichever occurs first.

Yes ___ No ___
Page # _____

NOTE: Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the options as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

**OPTION COST SHEET FOR
TRUCK-MOUNTED HYDRAULIC EXCAVATOR - OPTION B**

<u>Option</u>	<u>Option Price</u>
Fixed thumb grapple	\$7,500.00
30” pavement removal bucket	\$7,000.00

30" excavating bucket	\$3,500.00
Extended warranty	\$2,500.00
Additional 2 years filters	\$1000.00

NOTE: Award will be made on the basis of the total cost of the machine with all options included. However, a county may, at its discretion, deduct one or more of the above-referenced options from the machine, and in such event, the cost of the option as stated on the bid shall be deducted from the total cost of the machine. There shall be no other deductions and no additions made to the machine by the purchasing county or by the vendor.

COUNTY JOINT BID PROGRAM

PURCHASE PROCEDURES

Effective January 1, 2008

All purchases by counties pursuant to the County Joint Bid Program shall be made by (1) mailing or faxing the appropriate Purchase Order to the vendor who has been awarded the contract for the item to be ordered **and** (2) faxing a copy of the Purchase Order to the Association of County Commissions of Alabama (ACCA) office at 334-263-7678. Purchase Order Forms and all necessary information regarding the vendor and items available can be obtained at the ACCA website (www.acca-online.org).

Each purchase order shall be signed by the person authorized by the county to sign and shall include the County Joint Bid Program Item Number. A copy of the form submitted shall be retained by the county.

The county shall deal directly with the company representative for the vendor in making purchases under this program. The vendor shall complete all orders in compliance with its agreement under the program, and shall deal directly with each county in processing and completing their orders and in complying with service and warranty requirements. Road sign vendors should keep in mind that they are required to deliver all items to the location identified by the county ordering them within thirty (30) calendar days from the date of order, and the cost of any items not delivered within this time period will be reduced in price by 10%.

It is important to remember that under *Code of Alabama 1975, § 41-16-50(b)*, all purchases made pursuant to this program shall be subject to the terms and conditions of Alabama's Competitive Bid Law. Therefore, counties are only authorized to purchase the specific items awarded under the program according to the bid specifications and must comply with these procedures in placing all orders.

There can be no deletions or additions to items purchased under this program, except as specifically provided for in the bid specifications. Optional equipment authorized under the bid specifications on certain heavy equipment orders may be deleted by the county at the time of purchase, and in that event, the cost of that item as provided by the vendor shall be deducted from the total cost of the item.

COUNTY JOINT BID PROGRAM
PURCHASE ORDER FOR TRUCK-MOUNTED EXCAVATOR - OPTION B
This form must be mailed or faxed to the Vendor with
Copy faxed to the ACCA Office at 334-263-7678

Date of Order: _____ County Purchase Order No. _____

County: _____ County Contact Person: _____

County Address: _____

County Phone Number: _____

County Fax Number: _____

E-mail Address: _____

Equipment Model or Item Name and Number: _____

Number of items ordered: _____ Price per item: _____

Vendor: Tractor & Equipment Co., Company Contact: Joe Patton

Vendor address: P.O. Box 12326
 Birmingham, AL 35202

Deliver to the Attention of: _____

Delivery Address: _____

Requested delivery date: _____

Name of person making purchase request: _____

Title: _____

Authorized County Signature: _____

Initial confirming form sent to vendor: _____

Initial confirming form sent to ACCA: _____