



INVITATION FOR BID (IFB)

Name of Good or Service Requested:

MINI-EXCAVATOR

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Attachment A – Master Q & A Form



A. Summary of Invitation for Bid

This bid is for the purpose of entering into a contract for a MINI-EXCAVATOR for the City of Billings. The successful bidder agrees to provide the City of Billings with an acceptable quality of equipment/service, performance and workmanship as determined by the City of Billings.

It is the purpose of this bid to obtain the best quality of equipment/service at the most favorable price to the City of Billings. Consideration will be given for the level of service offered and ability to meet stated specifications as outlined in the contract documents.

The lowest bid need not be accepted if it is documented that a specific supplier in the past has been a poor performer or has provided poor goods.

B. Instructions to Bidders

Sealed bids entitled MINI-EXCAVATOR for the City of Billings, will be received by the City Clerk up until 2:00 PM (MST) on Tuesday, September 5, 2023.

All bids may be submitted to the Billings City Clerk, via email at bids@billingsmt.gov or via mail or delivery at 210 N. 27th Street, Billings, MT 59101 (P. O. Box 1178, Billings, MT 59103). Bids will be publicly opened and read aloud via Facebook Live on the City's Facebook page: <https://www.facebook.com/Billings-MT-City-Government-74352842013/>. Bid tabulations will be posted for public viewing after the bids have been opened.

More specific additional information regarding this MINI-EXCAVATOR bid may be obtained by contacting Brandon Schmidt, Cemetery Supervisor, via telephone at 406-657-8299, or via email at schmidtb@billingsmt.gov.

Each bid must be accompanied by a Certified Check, Cashier's Check, or Bid Bond payable to the City of Billings, Montana, in the amount not less than ten percent (10%) of the total amount of the bid. The bid security will be retained by the City Clerk until the successful bidder enters into a contract with the City of Billings. If no contract is entered into, by the successful bidder, within sixty (60) days the security may be forfeited to the City of Billings.

No bids may be withdrawn after the scheduled time for the public opening of bids, which is 2:00 PM (MST) on Tuesday, September 5, 2023.



The right is reserved to reject any or all bids received, to waive irregularities, to postpone the award of the contract for a period of not to exceed sixty (60) days, and to accept that bid which is in the best interests of the City of Billings, Montana.

The City of Billings is an Equal Opportunity Employer. The Contractor and subcontractor shall abide by the requirements of 41 CFR 60-300.5(a) and 41 CFR 60-741.5(a), which prohibit discrimination against qualified protected veterans and/or qualified individuals on the basis of disability, and requires affirmative action by covered prime contractors and subcontractors to employ and advance in employment qualified protected veterans and individuals with disabilities.

EXAMINATION OF DOCUMENTS

Before submitting a bid, the bidder shall:

- a. Carefully examine the Standards and Specifications as well as all other attached documents;
- b. Fully inform themselves of the existing conditions and limitations;
- c. Include with the bid sufficient information to cover all items required in the specifications.

BID COMPLIANCE

It shall be the responsibility of the bidder to see that all bids are submitted to the office of the City Clerk before 2:00 PM (MST) on Tuesday, September 5, 2023.

BID MODIFICATIONS

Bids shall be made on the forms provided herein; they shall not contain any recapitulation of the work to be done. Modifications, additions or changes to the terms and conditions of this Invitation for Bid may be cause for rejection of the bid. Bids submitted on other forms may be rejected.

INTERPRETATION PRIORITY

Should a bidder find discrepancies in, or omissions from, the specifications, or be in doubt as to their meaning, bidder shall notify Brandon Schmidt, Cemetery Supervisor, at schmidtb@billingsmt.gov, who will send written instructions or addenda to all bidders. The City will not be responsible for oral interpretation. All addenda issued prior to bid opening shall be incorporated into and become a portion and part of the contract/agreement upon award. Questions received less than ninety-six (96) hours before the bid opening cannot be answered.

WITHDRAWAL OF BIDS



Bidders may withdraw their bid either personally or by written request at any time prior to the time set for bid opening. No bid may be withdrawn or modified after the time set for opening, unless and until the award of the contract is delayed for a period exceeding sixty (60) days.

BID PRICE VALID

Bidder acknowledges that no contractual relationship with the Proposer exists until execution of the resulting contract following City Administration or City Council approval. Because contract approval can be delayed due to scheduling or unforeseen circumstances, the Bidder must honor their pricing and any other terms set forth in the proposal for at least ninety (90) days after the bid due date.

FUTURE PURCHASES

The bid price will remain in effect for the duration of the model year production and within the manufacturer's capacity to produce the units. The City may place additional orders for vehicles from the prices established as a result of this bid.

The prices established from this bid may be extended to other political subdivisions within the State of Montana solely at the vendor's discretion.

CERTIFICATION

The bidder certifies that the bid has been arrived at by the bidder independently and has been submitted without any collusion designed to limit independent bidding or competition. The bidder further certifies that the materials, products, services and/or goods offered herein meet all requirements of the stated specifications and are equal in quality, value and performance with highest quality, nationally advertised brand and/or trade names.

Any manufacturer's trade names, if used in specifications, are for the express purpose of establishing a standard of quality and coordination of design, not for the purpose of limiting competition.

ELIGIBILITY

The successful bidder will be required to provide copies of the following, or the ability to obtain the following within 15 days of notification of contract award:

- Completed and signed the new vendor forms, if necessary (to be eligible for payment): <http://mtbillings3.civicplus.com/DocumentCenter/View/26004>
- City of Billings Business License: <https://www.billingsmt.gov/981/Business-License-Information>



- Montana Contractor's License: <http://erd.dli.mt.gov/work-comp-regulations/montana-contractor/construction-contractor-registration>
- Certificate of Workman's Compensation or Certificate of Exemption from Workman's Compensation: <http://erd.dli.mt.gov/work-comp-regulations>

EVIDENCE OF QUALIFICATION

Upon request of the City of Billings, a bidder whose bid is under consideration for award may be required to manifest satisfactory evidence of his financial resources, experience, the organization and equipment as well as service provisions bidder has available or will make available. In determining the lowest responsible bidder, in addition to price, the following considerations may be addressed:

- a) The ability, capacity and skill of the bidder to perform the contract or provide the service required.
- b) The character, integrity, reputation, judgment, experience and efficiency of the bidder.
- c) Whether the bidder can perform the contract within time specified.
- d) The quality of performance of previous contracts, agreements and/or performance.
- e) Previous and/or existing compliance by the bidder with laws relating to the contract or services.
- f) Such other information which may be secured having a bearing on the decision to award the contract.



C. Contract Requirements and Specifications

Mini Excavator:

- Bucket Digging Force 10,200 lbf
- 12" Max Tail Swing
- Diesel Engine, Minimum 50HP
- Rubber Tracks
- Dozer Blade
- Roll Over Protective Structure
- Tip Over Protective Structure
- Falling Objects Protective Structure
- Engine Block Heater
- Spark Arrestor ******(See word doc on back of Bid)******
- Enclosed Cab w/HVAC
- Work Lights
- 36" Bucket
- Hydraulic Hammer/Breaker
- All Necessary Kits to Attach/Operate Attachments
- 2-Year Warranty on All Equipment

Comply (Y/N):

Y

 Y

 Y

 Y

 Y

 Y

 Y

 N/A

 Y

 Y

 Y

 Y

 Y

Options:

- 18" Bucket
- Heated Cab
- Radio
- Attachment Tilt and/or Rotate Kit
- Plate Compactor

Available (Y/N):

Y

 Y Standard Equip.

 Y Standard Equip.

 Y - ****see word document on back of Bid****

 Y

Delivered to Mountview Cemetery (1704 Central Ave., Billings, MT 59102)



D. Pricing and Addendum

Please bid net prices at which you will agree to furnish required goods or services.

- BASE BID: Mini-Ex w/ 36" Bucket \$ 128,375 - includes hammer
- OPTION 1 (18" Bucket): \$ 1,250
- OPTION 2 (Heated Cab): \$ Standard Equip.
- OPTION 3 (Radio): \$ Standard Equip.
- OPTION 4 (Attachment tilt and/or rotate kit): \$ 62,075 - See word doc on back of Bid.
- OPTION 5 (Plate Compactor): \$ 7,200

TRADE-IN ALLOWANCE FOR UNIT #1906: (\$ 9,000)
 1997 JCB-212S Backhoe w/ 4-wheel
 Drive and 4-wheel steering approx..
 5400 hours (Received at delivery location)

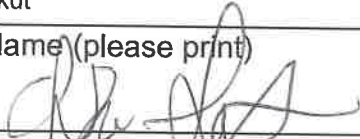
I/We acknowledge N/A addendum.
 #

RDO Equipment Company
 Company Name

09/01/2023
 Date

Chase Sukut
 Contact Name (please print)

Sales Professional
 Title


 Signature of Contact Position

By signing the above, I certify that I am authorized by the Company named above to respond to this request.



E. Standard Terms and Conditions

In case of default by the successful bidder or failure to deliver the goods or services within the time specified, the City Purchasing Agent, after written notice, may procure them from other sources and hold contractor responsible for excess costs occasioned thereby.

The specifications attached to the instructions to bidders establish a standard of quality desired by the City of Billings. Any bidder may submit quotations on any article which substantially complies with these specifications as to quality, workmanship and service. The City of Billings reserves the right to make its selections of materials or services purchased, based on its best judgment as to which articles substantially comply with the requirements of the specifications.

No alteration in any of the terms, conditions, delivery, quality, or specifications will be effective without prior written consent of the City of Billings.

No exception to delivery or service dates shall be allowed unless prior written approval is first obtained from the City of Billings.

The contractor warrants all articles supplied under this contract to conform to specifications, herein. The contractor will deliver a warranty stating that all articles supplied under the contract are fit and sufficient for the purpose manufactured, merchantable, and free from defects.

In the event the City is entitled to a prompt payment or cash discount, the period of computation shall commence on the date of delivery, or receipt of correctly completed invoices, whichever is later. If an adjustment of payment is necessary, the discount period shall commence on the date final approval for payment is authorized.

The contractor agrees not to discriminate against any client, employee or applicant for employment or for services, because of race, creed, color, national origin, sex or age with regard to, but not limited to, the following: employment upgrading; demotion or transfer; recruitment or recruitment advertising; layoffs and termination; rates of pay or other forms of compensation; selection for training; rendition of services. It is further understood that any contractor who is in violation of this shall be barred forthwith from receiving awards of any purchase order for the City unless a satisfactory showing is made that discriminatory practices have terminated and that a reoccurrence of such acts are unlikely.

The City reserves the right to cancel and terminate this contract forthwith upon giving 30 days written notice to the contractor. (This provision does not apply to



the purchase of materials and equipment. A purchase order for materials and equipment is a binding contract.)

Should either party employ an attorney or attorneys or utilize the services of in-house attorneys to enforce any of the provisions hereof or to protect its interest in any manner arising under this contract, the non-prevailing party in any action pursued in a court of competent jurisdiction agrees to pay to the prevailing party all reasonable costs, damages, expenses, and attorneys' fees, including fees for in-house attorneys, expended or incurred in connection therewith.

Where applicable, possible or required, bidder is required to submit descriptive literature, sample material, design sketches and detailed shop drawings. Failure to submit required items may result in rejection of the bid or termination of contract.

The successful bidder may not make any advertising or sale use of the fact that contract items are being used by purchaser and other approved agencies, under penalty of contract termination.

This Agreement shall be construed and enforced in accordance with the laws of the State of Montana. Venue for any suit between the parties arising out of this Agreement shall be the State of Montana Thirteenth Judicial District Court, Yellowstone County.

Regardless of FOB point, contractor agrees to bear all risks of loss, injury, or destruction of goods and materials ordered herein and such loss, injury, or destruction shall not release contractor from any obligation hereunder.

All materials submitted in response to this IFB become public records under Article II, Section 9 of the Montana Constitution and §§ 2-6-102 and 7-1-4144, MCA and may be distributed by written request pursuant to Montana's Constitutional Right to Know or Public Records Acts.

Information provided in response to this IFB will be held in confidence and will not be revealed or discussed with competitors prior to award of Contract by Council. However, one copy of each bid submitted shall be retained for the official files of the Department and will become public record after award of the Contract.

Records and materials that are constitutionally protected from disclosure are not subject to the provisions of this section.



F. Intent to Respond Form

Email the following Intent to Respond form to within four (4) days of the Bid Opening date of Tuesday, September 5, 2023, even if your company chooses NOT to participate.

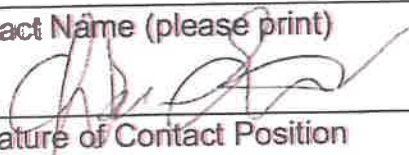
To: City of Billings – PRPL Department – Cemetery Division
Attn: Brandon Schmidt, Cemetery Supervisor
Phone: 406-657-8299
Email: schmidtb@billingsmt.gov

From:	<u>Chase Sukut</u>	Contact Name
	<u>RDO Equipment Co.</u>	Company Name
	<u>5221 Midland Road</u>	Company Address
	<u>Billings, MT 59101</u>	
	<u>csukut@rdoequipment.com</u>	Email Address
	<u>406-409-0759</u>	Phone Number
	<u>406-259-2269</u>	Fax Number

Please indicate whether or not you intend to submit a bid on: MINI-EXCAVATOR by checking Yes or No.

We intend to respond by the specified due date:

Yes No

<u>RDO Equipment Co.</u>	<u>9/1/2023</u>
Company Name	Date
<u>Chase Sukut</u>	<u>Sales Professional</u>
Contact Name (please print)	Title
	
Signature of Contact Position	

By signing the above, I certify that I am authorized by the Company named above to respond to this request.



G. Questions

Questions regarding this Invitation for Bids must be sent to the contact person listed in Section B no later than 5 business days prior to due date. The City will make every effort to provide a written response within 2 business days. Whenever responses to inquiries would constitute a modification or addition to the original IFB, the reply will be made in the form of an addendum to the IFB, a copy of which will be posted on the City's website and forwarded to all Suppliers who have submitted an "Intent to Respond" form (Section F).

Supplier must submit their questions via email using the "Master Q & A" form found below (Attachment A), and provide, at a minimum, the following:

- Supplier's name, requester, and appropriate contact information.
- The question, clearly stated.
- Specific reference to the applicable IFB section(s).

H. Protests

Any Bidder protest of award recommendations and/or bid specifications must be filed with the Purchasing Agent within seven (7) days of bid opening.

Upon receiving a written protest, the Purchasing Agent, with assistance from the Legal Department, determines if the protest has sufficient merit and if so, schedules an informal hearing with the protesting bidder and the user Department.

At this hearing, all parties discuss the basis of the protest and attempt to resolve the dispute based on fact. If the protesting party is not in agreement with the results of the informal hearing, they may appeal to the City Administrator.



ATTACHMENT A

MASTER Q & A FORM

IFB: MINI-EXCAVATOR

Master Q&A	Any questions regarding this IFB should be submitted according to the process outlined below. The City will make every effort to answer within two (2) days of receiving the questions.
Q&A Process	<ol style="list-style-type: none"> 1. Prepare questions or concerns on the template provided. 2. Complete the table in full, providing a date for each question and a section of the IFB to reference (if applicable). 3. Submit the completed form via email to schmidt@billingsmt.gov. Attach associated documents as necessary. <p>Please contact Brandon Schmidt with any questions regarding this process.</p>

Questions from: _____ **Company:** _____

Email Address: _____

#	Date	Reference Section	Question or Comment	City Response
1				
2				
3				
4				

City of Billings Mini Excavator Bid Details

Page 6- Contract Requirements

- Spark Arrestor – Deere emissions systems do not use a spark to regen. RDO can supply further documentation upon request to explain in further detail.

Page 6 – Contract Requirements Options:

- Attachment Tilt and/or Rotate Kit – This package includes 18” and 24” buckets, vibratory compactor, and a “grapple”. The grapple is a standard feature on the back of the attachment. This allows for a seamless option to pick up materials without having to disconnect or connect to another attachment. On our tilt rotator attachment, it allows the operator to hook up to a bucket and switch to a hammer or vibratory bucket attachment from the cab allowing the operator to not need to get out of the cab to hook up the hydraulics or electrical components. That is automatic when attaching from the cab. It has an EC-Oil system that allows this to happen. Literature is attached in the bid. The buckets and vibratory attachment listed are specific to Engcon and do not list a 36” option. RDO has also included a specific top cap for the breaker to work with the tilt rotator.

Fidelity and Deposit Company

POST OFFICE BOX 1227

OF MARYLAND

BALTIMORE, MD 21203

BID BOND

KNOW ALL MEN BY THESE PRESENTS:

That we, RDO Equipment Co., as
 Principal, (hereinafter called the "Principal"), and the Fidelity and Deposit Company of Maryland, P.O.
 Box 1227, Baltimore, Maryland 21203, a corporation duly organized under the laws of the State of
 Maryland, as Surety, (hereinafter called the "Surety"), are held and firmly bound unto City of Billings, Montana
 as Obligee, (hereinafter called the "Obligee"), in the
 sum of Ten Percent (10%) of Total Amount of Bid Dollars (\$ 10%),
 for the payment of which sum well and truly to be made, the said Principal and the said Surety, bind
 ourselves, our heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these
 presents.

WHEREAS, the Principal has submitted a bid MINI-EXCAVATOR

NOW, THEREFORE, if the Obligee shall accept the bid of the Principal and the Principal shall
 enter into a contract with the Obligee in accordance with the terms of such bid and give such bond or bonds
 as may be specified in the bidding or contract documents with good and sufficient surety for the faithful
 performance of such contract and for the prompt payment of labor and material furnished in the prosecution
 thereof, or in the event of the failure of the Principal to enter into such contract and give such bond or bonds,
 if the Principal shall pay to the Obligee the difference not to exceed the penalty hereof between the amount
 specified in said bid and such larger amount for which the Obligee may in good faith contract with another
 party to perform the work covered by said bid, then this obligation shall be null and void, otherwise to
 remain in full force and effect.

Signed and sealed this 31st day of August A.D. 2023

E. Thelen
 Witness

[Signature] (Seal)
 Principal
Sales Manager
 Title

FIDELITY AND DEPOSIT COMPANY OF MARYLAND
 Surety

Julian Thelen
 Witness
 Julian Thelen

By: *[Signature]* (Seal)
 Attorney-In-Fact
 Ann Higgins
 Title

EXTRACT FROM BY-LAWS OF THE COMPANIES

"Article V, Section 8, Attorneys-in-Fact. The Chief Executive Officer, the President, or any Executive Vice President or Vice President may, by written instrument under the attested corporate seal, appoint attorneys-in-fact with authority to execute bonds, policies, recognizances, stipulations, undertakings, or other like instruments on behalf of the Company, and may authorize any officer or any such attorney-in-fact to affix the corporate seal thereto; and may with or without cause modify or revoke any such appointment or authority at any time."

CERTIFICATE

I, the undersigned, Secretary of the ZURICH AMERICAN INSURANCE COMPANY, the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY, and the FIDELITY AND DEPOSIT COMPANY OF MARYLAND, do hereby certify that the foregoing Power of Attorney is still in full force and effect on the date of this certificate; and I do further certify that Article V, Section 8, of the By-Laws of the Companies is still in force.

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the ZURICH AMERICAN INSURANCE COMPANY at a meeting duly called and held on the 15th day of December 1998.

RESOLVED: "That the signature of the President or a Vice President and the attesting signature of a Secretary or an Assistant Secretary and the Seal of the Company may be affixed by facsimile on any Power of Attorney...Any such Power or any certificate thereof bearing such facsimile signature and seal shall be valid and binding on the Company."

This Power of Attorney and Certificate may be signed by facsimile under and by authority of the following resolution of the Board of Directors of the COLONIAL AMERICAN CASUALTY AND SURETY COMPANY at a meeting duly called and held on the 5th day of May, 1994, and the following resolution of the Board of Directors of the FIDELITY AND DEPOSIT COMPANY OF MARYLAND at a meeting duly called and held on the 10th day of May, 1990.

RESOLVED: "That the facsimile or mechanically reproduced seal of the company and facsimile or mechanically reproduced signature of any Vice-President, Secretary, or Assistant Secretary of the Company, whether made heretofore or hereafter, wherever appearing upon a certified copy of any power of attorney issued by the Company, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

IN TESTIMONY WHEREOF, I have hereunto subscribed my name and affixed the corporate seals of the said Companies, this 31st day of August, 2023.



Brian M. Hodges

By: Brian M. Hodges
Vice President

TO REPORT A CLAIM WITH REGARD TO A SURETY BOND, PLEASE SUBMIT A COMPLETE DESCRIPTION OF THE CLAIM INCLUDING THE PRINCIPAL ON THE BOND, THE BOND NUMBER, AND YOUR CONTACT INFORMATION TO:

Zurich Surety Claims
1299 Zurich Way
Schaumburg, IL 60196-1056
www.reportsfclaims@zurichna.com
800-626-4577


ACKNOWLEDGMENT BY SURETY

STATE OF Minnesota }
County of Hennepin } ss.

On this 31st day of August, 2023, before me personally
appeared Ann Higgins, known to, me to be the Attorney-in-Fact of
Zurich American Insurance Company, the corporation
that executed the within instrument, and acknowledged to me that such corporation executed the same.

IN WITNESS WHEREOF, I have hereunto set my hand and affixed my official seal, at my office in the aforesaid County, the day and
year in this certificate first above written.





Notary Public in the State of Minnesota
County of Hennepin



JOHN DEERE

75 & 85 P-Tier

The performance your jobsite needs and the comfort your operators are asking for.

The improved performance and cab comfort in the 75 and 85 P make this machine more productive, stable, servicable and the new cab provides operator comfort with more leg room, better seat and a new monitor.



By the Numbers

18%

more engine power means more productivity.

6.5"

more floor length means more leg room for operators.

10%

increased machine stability means more lift power.

CAB FEATURES

Larger cab with more cab volume and 6.5 more inches of floor length gives operators plenty of room. The new 8" monitor makes viewing the 270 degree camera view even easier while enjoying the new seat and easily adjustable armrests.

PERFORMANCE

These machines have 67-Gross Engine HP, turbo for improved performance at altitude and increased pump torque. Attachment priority settings allow you to easily control attachment settings in the monitor and adjust hydraulic flow on the fly. Blade to bucket distance has been improved with 10% increased machine stability.

SERVICABILITY

Larger service doors give more room for easier maintenance. Improved oil filter and filter bank access. Removable condenser screen and remote swing bearing grease bank.

NEW FEATURES

Angle Blade with Float Option

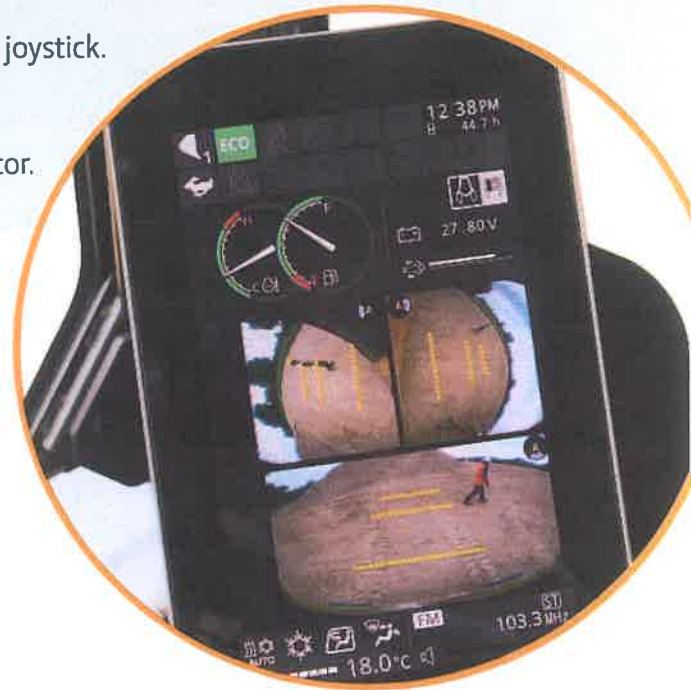
Brings out blade frame 14.25 inches from previous model, not only allowing you to get your bucket closer to the blade but also increases machine stability.

Swing Boom in Joystick

Control for swing boom has been moved off the floor and onto the joystick.

Right, Rear and Left Camera System Standard

Better visibility, 270 degrees around the machine on a new 8" monitor.



- CAB HIGHLIGHTS**
- Larger Cab
 - New 8" monitor with bluetooth
 - USB port and phone holder
 - Right Rear and Left Cameras
 - New Seat
 - New Easily Adjustable Armrest
 - Swing boom in joystick



75 P Specs



85 P Specs

engcon Positioning System

engcon®



engcon is taking one step further into the future by adapting its products to the latest technology with excavator guidance systems/machine sensors.

ePS is optimized for engcon's smart DC2 control systems where the cabling for the ePS is integrated with the cabling for DC2 but is also "open", which means the ePS also works together with engcon's other control systems and those of other makes.

Conditions

The technology is based on signals from the ePS to the excavator guidance system used by the customer on his excavator. The aim is to enable as many manufacturers' excavator guidance systems as possible to be able to communicate with the ePS.

Advantages

Together with the selected excavator guidance system, ePS reduces the need for a 'conventional' setup, and the driver can see the exact excavation area via the machine control system's display in the cab.

This control, which ensures the exact right amount of material is excavated, provides many advantages:

- ▶ Reduced job time
- ▶ Reduced fuel consumption
- ▶ Reduced wear on machines and tools
- ▶ Saves time for other units, such as trucks/dumpers that haul away the excavation material.
- ▶ Adapted to the DC2 control system, but possible to mount on other control systems
- ▶ Fully independent of the control system make and model via own cabling (if not DC2)
- ▶ Can be ordered with, or retrofitted, to all generation 2 tiltrotators from EC209 upwards *

*Certain modification required on the EC30

engcon supplies the rotation sensor and the excavator guidance system supplier supplies the tilt sensor.

Auto-tilt and auto-rotation functions can also be obtained with the combination ePS and certain makes of excavators and excavator guidance systems. Contact your excavator guidance system supplier for further information.

CHANGE THE WORLD OF DIGGING

engcon North America Inc. | 2666 State Street, Hamden CT 06517
Phone +1 203 691 5920 | Email northamerica@engcon.com | Web engcon.com

EC-Oil

Switch jobs in an instant – from the cab

EC-Oil is the key to our system. It allows for quick switching of hydraulic tools and connection/disconnection of the tiltrotator for increased breakout force. The EC-Oil automatic hydraulic connector is now standard. In some jobs, this can save an hour or more every day compared to manual connection – and time is money.

As a supplier we can help you with a total solution – everything from control systems, machine coupler, tiltrotators and associated tools. Use EC-Oil for instant tool and attachment changes directly from the cab.

With EC-Oil on the machine coupler, above and below the tiltrotator and on the tool itself, you can disconnect from the tiltrotator and connect the machine coupler directly to a hydraulic or mechanical tool whenever you need extra breakout force.

This also saves weight, which means fuel savings and improved total efficiency. Together they create a system of tools that allow you to work quickly, efficiently and profitably. EC-Oil is designed for the highest operational reliability in demanding environments.

The EC-Oil™ has no visible hoses or electrical cables that move around when connecting. This reduces the risk for pinch damage and wear. The engcon quick coupler system handles the connection of pressurised tools at full system pressure.

The proprietary oil and electrical connections are designed to be even better at withstanding the tough conditions excavators often have to work in.

The connectors are designed for tough handling, as proven through destructive testing at 1600 bar operating pressure and field tests in difficult environments. EC-Oil™ also connects to central lubrication automatically.



CHANGE THE WORLD OF DIGGING