

# **INVITATION TO BID**

## **Television Inspection Vehicle & Related Equipment**

**West Sound Utility District**  
2924 SE Lund Avenue  
Port Orchard, WA 98366  
360-876-2545

February 2023

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## INVITATION TO BID

Sealed bids will be received by West Sound Utility District (“District”) until 2 p.m. on February 28, 2023, at the office of West Sound Utility District located at 2924 SE Lund Avenue, Port Orchard, Washington, 98366, for the following equipment purchase: **ONE (1) TELEVISION INSPECTION VEHICLE AND RELATED EQUIPMENT**. Bids received after such time and date will not be considered. No Bidder may withdraw a Bid after the deadline for the submittal of bids. Bids properly received will be publicly opened and read at the District Offices following the deadline for the submission of bids.

The equipment to be purchased under this Contract includes all the equipment described in the specifications, bid, and contract documents (collectively the “Contract documents”).

Bids shall be submitted in accordance with the Contract Documents. Bids shall constitute offers to West Sound Utility District which shall be binding for thirty (30) days from the date of bid opening. West Sound Utility District reserves the right to reject any bid, any portion of any bid and/or to reject all bids. West Sound Utility District further reserves the right, but without obligation, to waive informalities and irregularities. **No bid will be considered unless accompanied by a bid guaranty (certified or cashier's check, surety bond, or postal money order) payable to West Sound Utility District in an amount not less than five percent (5%) of the Bid.**

Bid Specifications and Contract Documents may be obtained at the West Sound Utility District office at the address above or by downloading from the district website at [www.wsud.us/rfps](http://www.wsud.us/rfps).

Bids will be evaluated based on capital cost, operational cost, and operation and maintenance requirements for the equipment. The District reserves the right to award the equipment purchase contract (“Purchase Contract”) to the lowest responsive, responsible bidder as it best serves the interest of the District. The Bidder to whom the Purchase Contract is awarded shall execute and return the Contract to the District within fifteen (15) calendar days from the date the Notice of Award is mailed to the Bidder. In case of failure of the Bidder to execute the Contract, the Bidder shall be in default, the Bid Bond shall be forfeited to the District and the District shall have the right to award the Purchase Contract to the next lowest responsive, responsible Bidder.

Questions regarding Bid Specifications, Contract Documents, or this invitation to bid may be directed to John Tapia at West Sound Utility District at 360-874-5012 or [jtapia@wsud.us](mailto:jtapia@wsud.us). A bidder may be required to submit a question in writing. No oral responses to questions by District personnel about the bid will be binding on the District.

Published: February 10, 2023

**END OF SECTION**

**BID GUARANTY**  
**WEST SOUND UTILITY DISTRICT**  
**BID BOND FORM**

Herewith find deposit in the form of a certified check, cashier's check, or cash in the amount of \$ \_\_\_\_\_ which is **not less than five percent (5%) of the total bid for (1) Television Inspection Vehicle and Related Equipment.**

Sign Here:

\_\_\_\_\_

**BID BOND**

Know all men by these presents, that we \_\_\_\_\_ as Principal and \_\_\_\_\_ as Surety, are held and firmly bound unto WSUD, as obligee in the penal sum of \_\_\_\_\_ dollars, for the payment of which the principal and the surety binds themselves, their heirs, executors, administrators, successors and assigns, jointly and severally, by these presents. The condition of the obligation is such that if the obligee shall make any award to the principal for \_\_\_\_\_, according to the terms of the proposal or bid made by the principal therefore, and the principal shall duly make and enter into a contract with the obligee in accordance with the terms of said proposal or bid award and shall give bond for faithful performance thereof, with surety or sureties approved by the obligee; or if the principal shall, in case of failure to do so, pay and forfeit to the obligee the penal amount of the deposit specified in the call for bids, then this obligation shall be null and void; otherwise it shall be and remain in full force and effect and the surety shall forthwith pay and forfeit to the obligee, as penalty and liquidated damages the amount of this bond.

Signed, sealed, and dated this \_\_\_\_\_ day of \_\_\_\_\_, 2023.

Principal: \_\_\_\_\_

Surety: \_\_\_\_\_

Return of deposit in the amount of  
\$ \_\_\_\_\_

Date: \_\_\_\_\_

By: \_\_\_\_\_

**TELEVISION INSPECTION VEHICLE AND RELATED  
EQUIPMENT BID**

**To: West Sound Utility District**

**From Bidder:** \_\_\_\_\_

**1. GENERAL**

The undersigned Bidder, having reviewed the Invitation to Bid and Technical Specifications for one (1): **TELEVISION INSPECTION VEHICLE AND RELATED EQUIPMENT** purchase, and being familiar with the Contract Documents, hereby proposes and agrees, if this bid is accepted, to enter into an agreement with Owner in the form included in the Contract Documents to provide the equipment as specified or indicated in the Contract Documents and within the contract time indicated in this bid and in accordance with the Contract Documents for an amount computed upon the basis of the equipment to be provided at the following prices.

**2. BID SCHEDULE**

The Owner reserves the right to purchase one (1): **TELEVISION INSPECTION VEHICLE AND RELATED EQUIPMENT**, subject to the completion and delivery schedule set forth below.

**Delivery within one hundred twenty (120) days** after the effective date of the Notice of Award of the Contract and as specified in the contract documents.

Note: Bid prices for all items, all extensions and total amount of Bid must be shown below. **Show bid amounts in both figures and words; where a conflict occurs, the written words shall control.**

Bid Item	Description	Price
One (1) Television Inspection Vehicle and Related Equipment		\$ _____
Washington State Excise Tax		\$ _____
Washington State Sales Tax (Kitsap County, 9.2%)		\$ _____

**TOTAL BID PRICE IS** (Total of Bid, including taxes and delivery) \$ \_\_\_\_\_

\_\_\_\_\_  
The Total Amount Bid in words

**Total amount bid includes all applicable taxes and shipping F.O.B. Port Orchard, Washington.**

3. COMPLETION TIME

Bidder proposes and agrees, if awarded the Purchase Contract, to provide and deliver to the Owner (1) **TELEVISION INSPECTION VEHICLE AND RELATED EQUIPMENT** which is the subject of the Bid within one hundred twenty (120) days after the effective date of the Notice of Award of the Contract and as specified in the contract documents.

Bidder accepts the provisions of the Purchase Contract as to liquidated damages in the event of failure to provide and deliver the Equipment on time.

4. ADDENDA

Addenda will be posted on the district website at [www.wsud.us/rfps](http://www.wsud.us/rfps). Bidder has examined copies of all the Contract Documents and acknowledges receipt of the following addenda:

Addendum No.                      Date of Receipt and Acknowledgement

- 1.
- 2.

5. This Bid is submitted on and by:

Name of Bidder: \_\_\_\_\_

Signature: \_\_\_\_\_

Name (Print): \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Address of Bidder: \_\_\_\_\_

Telephone No.: \_\_\_\_\_

Fax No.: \_\_\_\_\_

6. REFERENCES

Bidder must provide three (3) references that have recently purchased the Bidder's equipment, including name, telephone number, and address.

7. COMPLIANCE WITH SPECIFICATIONS

The proposed equipment must fully comply with the attached Technical Specifications or equal as demonstrated by bidder to qualify as a responsive bid. Bidder must list, in the space provided below, or attached, all deviations and substitutions or proposed "as equal" component to the specifications which are included with this Bid. Bidder may attach additional information or pages in order to comply with this requirement.

A completed list of proposed deviations and substitutions submittal will be required to enable the Owner to evaluate whether the proposed items comply with the requirements of the specifications, to be determined by the Owner in the Owner's sole discretion.

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**END OF SECTION**

# EQUIPMENT PURCHASE CONTRACT

This Agreement (“Agreement”) is made and entered into this \_\_\_ day of \_\_\_\_\_, 2023, between West Sound Utility District, a municipal corporation (“District” or “Owner”) and \_\_\_\_\_ (“Vendor”) (individually a “Party” and collectively “Parties”).

## RECITAL

WHEREAS, the District desires to purchase and Vendor desires to sell, the equipment (“Equipment”) described in the Bid and Technical Specifications and incorporated herein by this reference (“Bid”) on the terms and conditions stated in this Agreement below.

## AGREEMENT

In consideration of the terms and conditions set forth in this Agreement, the District and Vendor agree as follows:

1. Purchase and Sale of Equipment. The District shall purchase from Vendor and Vendor shall sell, furnish and deliver to the District the Equipment in accordance with the terms and conditions of the Bid. If any term or condition stated in the Bid conflicts with a provision in this Agreement, the provision in this Agreement shall control. Vendor shall deliver the Equipment to the District at the location specified in writing by the District.

2. Purchase Price. The District shall pay Vendor the amount stated in the Bid for the Equipment including applicable Washington State taxes (“Equipment Cost”). The Equipment Cost includes all costs associated with the Equipment, as described in the Bid, including but not limited to labor, materials, freight, overhead, administrative, and permit and regulatory costs, unless otherwise agreed in advance in writing. Vendor shall make sales tax and other tax payments to the State as provided by statute.

3. Supply Deadline/Liquidated Damages. Vendor agrees to complete all requirements of the Bid and deliver (1) Television Inspection Vehicle and Related Equipment to the District no later than 120 days after the effective date of the Notice of Award of the Contract and as specified in the contract documents (the "Delivery Date"). If the Equipment is not delivered by the delivery deadline in this section then, because of the difficulty in computing the actual damages to the District arising from any delay in providing the Equipment, the Parties determine in advance and agree that the Vendor shall pay the District as liquidated damages for delay (but not as a penalty) the amount of \$200 per calendar day for each day after Delivery Date until the Equipment is delivered. The Parties agree that such amount represents a reasonable forecast of the actual damages that the District will suffer by failure of the Vendor to deliver the Equipment to the District within the agreed time. The execution of this Agreement constitutes acknowledgement by the Vendor that Vendor has ascertained and agrees that the District will actually suffer damages in the amount herein fixed.

4. Vendor’s Responsibilities. Vendor shall provide and bear the expense of all equipment, materials, and labor that may be required for the furnishing and delivery of the Equipment provided for in this Agreement, unless otherwise provided in the specifications for the Bid.



5. Payment Terms. Upon delivery of the Equipment, Vendor shall invoice the District for the Equipment Cost in the amount of the Bid awarded. The District shall pay Vendor for the Equipment within forty-five (45) days of the date of the invoice.

6. Warranty. In addition to all Vendor supplied warranties, Vendor shall warrant and guarantee the Equipment as set forth in the warranty to be negotiated with the successful bidder prior to notice of award of the bid; at a minimum the Vendor shall warrant the Equipment to be free of defects in workmanship and material for at least if not more than a period of one (1) year after the District’s receipt and acceptance of the Equipment. Vendor shall correct all defects in workmanship and materials occurring within one (1) year from the date of the District’s receipt and acceptance of the Equipment at Vendor’s expense. When defects are corrected, the warranty for that portion of the Equipment shall extend for an additional one year from the date such correction is completed and accepted by the District. Vendor shall begin to correct any defects within 10 days of notice from the District of the defect. If Vendor fails to perform the corrective work within 30 days of such notice, the District may complete the correction and Vendor shall pay all costs incurred by the District to perform the correction.

7. Termination. The District shall have the right to terminate this Agreement for public convenience or good cause. “Good cause” shall include, but is not limited to, any one or more of the following events: (a) Vendor’s failure to provide the Equipment within the time specified in this Agreement; (b) Vendor’s failure to comply with any federal, state, or local laws, regulations, rules or ordinances; or (c) Vendor’s filing for bankruptcy or being adjudged bankrupt.

8. Attorneys’ Fees. In the event that either Party to this Agreement shall file or commence a legal action to resolve a dispute between the Parties arising from this Agreement, the prevailing party in such action shall be entitled to recover reasonable attorneys’ fees and costs, including any fees and costs incurred in an appeal.

9. Entire Agreement. This Agreement constitutes the entire agreement between the Parties and supersedes all prior agreements and understandings of the Parties with respect to the subject matter hereof. No modification or amendment of this Agreement shall be binding and enforceable on the Parties unless executed in writing by the Parties.

10. Governing Law; Jurisdiction. This Agreement shall be construed in accordance with, and governed by, the laws of the State of Washington. The Parties agree that any legal action or proceeding arising out of or relating to this Agreement shall be filed in the Superior Court of Kitsap County, Washington.

West Sound Utility District

VENDOR

By: \_\_\_\_\_

By: \_\_\_\_\_

Its: \_\_\_\_\_

Its: \_\_\_\_\_

**END OF SECTION**

## TECHNICAL SPECIFICATIONS FOR ONE (1) TELEVISION INSPECTION VEHICLE AND RELATED EQUIPMENT:

The Television Inspection Vehicle and Related Equipment shall be used in the maintenance and operations of the District's sewer utility systems.

The proposed equipment shall meet or exceed the following details, standards and specifications:

Build Preference	
Mercedes Sprinter Van	2500 High Roof - 170" EXT Wheelbase Diesel Engine
Front Office	Package installation into Sprinter Van <ul style="list-style-type: none"> <li>- Non Slip Flooring</li> <li>- Kemlite Covered &amp; Insulated Walls &amp; Ceiling</li> <li>- Interior Partition Wall with Pass-through Door to Rear</li> <li>- Utility Shelf Mounted On Partition Wall</li> <li>- Control Room Counter Top Workstation</li> <li>- Rack Mount Storage Drawers (3)</li> <li>- Control Room LED Ceiling Mounted Light</li> <li>- 110V Electrical Receptacle Outlets (2) W/USB</li> <li>- Printer/ Scanner</li> <li>- 34" PBP Monitor</li> <li>- Worksite Viewing Monitor</li> </ul>
Rear Work Area	Rear work area <ul style="list-style-type: none"> <li>- LED Ceiling Mounted Lights (2)</li> <li>- 110V Electrical Receptacle Outlets (4). (1) with USB</li> <li>- Heavy Duty Toolbox w/ Cable Locking Pull Latches-</li> </ul> Curbside <ul style="list-style-type: none"> <li>- Working Counter Top - Curbside</li> <li>- Shelf Over Wheel Well- Curbside</li> <li>- Cabinet Holds Inverter/ Batteries - Street side</li> <li>- Wash Down Tank</li> <li>- Water Pump &amp; 25' Retractable Reel</li> <li>- Reel Rack- 2 Compartment Drawer &amp; Slide Tray</li> <li>- (4) 6' Fiberglass Poles With Camera Hook</li> <li>- Sanitary Station- Sanitizer, Towel &amp; Rubber Glove Holder</li> <li>- Rear Flood Light (1)</li> <li>- Backup Camera for Worksite. Tied To Control Room</li> </ul> Monitor <ul style="list-style-type: none"> <li>- 32" TV for Inspection Viewing- Mounted</li> <li>- LED Directional signals Sub-Roofline Mounted</li> <li>- 14 LED Strobes on Chassis</li> <li>- 3000 Watt Go-Power Inverter</li> <li>- 30 Amp Converter Charger w/Shore Power Plug &amp; Cord</li> <li>- 4 Fiber Glass Downhole Poles Mounted on Rear Door</li> </ul>

## Controller

### Vehicle Mounted Control Unit

Material	Stainless steel & aluminum
Interfaces	> Built in WI-FI > RS232 > USB2.0 > (2) BNC out connections
Internal Storage	Built in 30 GB minimum storage (SSD). <b><i>NO EXCEPTIONS</i></b>
External Storage	> Two (2) USB ports > One (1) SD card port
Setup	> Designed for stationary operation > Physical controls, NOT touch screen
Video Recording File Format	Videos recorded directly onto command module shall be recorded in MPEG - 4 format
Picture Recording File Format	Ability to take .jpeg pictures during live inspections
General Controls	> Twin Joysticks <ul style="list-style-type: none"><li>- Left joystick controls crawler functions</li><li>- Right joystick controls camera functions</li></ul> > Grouping of controls based on function, groups consists of: <ul style="list-style-type: none"><li>- Crawler</li><li>- Camera</li><li>- Media</li><li>- Survey</li><li>- Cable reel</li></ul> > 6 color coded keys (F1–F6) <ul style="list-style-type: none"><li>- keys will allow selection within various menus</li></ul>
Crawler Controls	> Six (6) speed cruise control forward and reverse <ul style="list-style-type: none"><li>- “Stop” function for cruise control</li></ul> > Option of 33HZ / 512HZ or 640HZ frequencies <ul style="list-style-type: none"><li>- Ability to turn frequency mode to “Pulse”</li></ul> > Toggle camera display from front to rearview camera > Menu to select the following: <ul style="list-style-type: none"><li>- Tire size</li><li>- Cable reel mode</li><li>- Motorized arm/lift location</li><li>- Start/Stop inclinometer report</li></ul>

Camera Controls	<p>Built-in keyboard controls to operate the following:&gt; Zoom&gt; Auto focus versus manual focus&gt; Adjustable camera lighting&gt; Auto-Home camera position and zoom home&gt; Laser measurement - Defect measurement - Diameter measurement - Water level - Point measurement - Clock measurement&gt; “Go to” options automatically position camera head - Up / Down / Right / Left - Auto-rotate 360 degrees clockwise &amp; counter clockwise</p>
Power Source	Built in Battery
External Power	<p>&gt; 24V Power supply</p> <ul style="list-style-type: none"> <li>- Provides power for the Controller</li> <li>- Charges control unit’s internal battery source</li> </ul>
Key Board	<p>&gt; Built-in to desk mounted controller</p> <p><b><i>Separate keyboards or touch screen not accepted</i></b></p>
Text Overlay	<p>&gt;Ability to type text overlay during video recording AND/OR</p> <p>&gt; In ProPipe software, ability to:</p> <ul style="list-style-type: none"> <li>- Add observations automatically</li> <li>- Add text overlay describing observations</li> </ul>
Built-In Software	<p>&gt; Built in Pro Pipe software</p> <p>&gt; Software to utilize lasers for measuring</p> <ul style="list-style-type: none"> <li>- Pipe diameter</li> <li>- Defects</li> <li>- Water level</li> </ul> <p>&gt; All done directly through command module</p> <p>&gt; No external 3rd party software required.</p> <p><b><i>NO EXCEPTION</i></b></p>
Built-In Reporting Capabilities	<p>&gt; Reporting software with PACP 6 and 7 Codes</p> <p>&gt; Generate Pipe Graphic &amp; Picture reports</p> <p>&gt; No 3rd party software required</p> <p><b><i>NO EXCEPTION</i></b></p>
Help Button	<p>Help menu:</p> <p>&gt; 'How to' videos to provide step by step instruction on various operations of the system</p>

Camera System Settings & Performance Displays Camera diagnostics displayed on right side of monitor inform operator of the following:> Storage space - Internal SSD - USB A Port - USB B Port> Crawler settings - Speed of crawler - Slope/Inclinometer of tractor - Pressurization - Joystick operational status indicator> Camera settings - Clock position - Degrees up/down of camera position - Pressurization - Joystick operational status indicator> Cable settings - Cable footage remaining on reel - Torque settings> Ability to display camera diagnostics on external monitor  
**SYSTEM SETTINGS MUST ALWAYS BE ON DISPLAY NO EXCEPTIONS**

Video/Picture Recording Capabilities Easy one-touch icon option to:  
 > Start  
 > Stop  
 > Pause  
 > Fast forward & rewind on playback  
 > Snapshot

**Reel**

**Approximately 1,150'  
 Automatic Reel**

Synchronized Cable Reel > Reel discharges cable in sync with the speed of the crawler  
 > Reel and crawler reverse in sync  
**Reels requiring crawler to be in neutral while retracting will not be considered as equal**

Weight 99LB (**Cannot exceed**)

Environmental Protection IP45 Rating

Power Consumption 600W

Cable Length Minimum cable length 1145 ft.

Cable Strength Minimum of 2000lb tensile strength

Connector Maximum of 6 pin connector

**NO EXCEPTION**

Controls > Controls on reel to perform following functions: - Reel "Reset" - Change mode of reel - Rewind the cable reel

Cable Arm Guide > Adjustable guide arm  
 - Seven (7) locking positions  
 - 180 degree swivel  
 > 4 locking positions extending guide beyond vehicle bumper

## Crawler

### Crawler for 4"

Drive	> 6 wheel drive (no exceptions) - Direct gear-to-gear operation - Two internal motors for steering functionality <b><i>Chain driven operations will not be accepted</i></b>
Elevator	> Built in Elevator operates from main controls > 2 inches of elevation <b>Manual Elevation will set screws will not be accepted</b>
Internal Pressure	14.5 psi
Inclination sensor	Built in
Connector	> Heavy-duty 6 pin Connector > <b><i>No external strain relief accepted</i></b> > <b><i>Any connection requiring tools will not be accepted</i></b>
Wheel Lock	> Single bolt – Quick Change Wheel Lock - All wheel configurations shall fit on same quick lock design - Removal of bolt not required for wheel change
Sensors	> Pressure > Tilt - More than 15% tilt in either direction shall alarm operator > Inclination > Internal Temperature
Lowering Device	> Built in Lowering Device - Non-proprietary J-hook for lowering and retrieval of crawler
Sonde transmitter	> Built-in Multi-Frequency Sonde Features: - 33 MHZ, 512 MHZ, and 640 MHZ - Must have all three (3) frequencies <b>NO EXCEPTIONS</b>

### Crawler for 6"

Dimensions	Dimensions not to exceed 15.1 x 5.2 x 4.2 in (L x W x H)
Weight	Crawler with 6" tires not to exceed 25lbs (excluding camera)
Drive	> 6 wheel drive (no exceptions) - Direct gear-to-gear operation - Two internal motors for steering functionality <b><i>Chain driven operations will not be accepted</i></b>

Elevator	> Electronic Elevator - 6" of elevation - Built-in clutch - Air piston lift - Permanently fixed - Crawler must fit in relined 6" pipe with lift attached - <b>Any crawler requiring removal or remounting of lift for any configurations will not be accepted</b> - Dual function to power or manually raise and lower lift - Any lift requiring power to operate shall not be accepted - Lift will collapse under minimal pressure
Internal Pressure	14.5 psi
Inclination sensor	> Built-In Inclinometer sensor - Continuous display of pipe slope inclination - Inclination reporting is standard feature through controller - Must generate inclination report without 3rd party software <b>No 3rd party software generated reports accepted</b>
Connector	> Heavy-duty 6 pin Connector > <b>No external strain relief accepted</b> > <b>Any connection requiring tools will not be accepted</b>
Wheel Lock	> Single bolt – Quick Change Wheel Lock - All wheel configurations shall fit on same quick lock design - Removal of bolt not required for wheel change
Sensors	> Pressure > Tilt - More than 15% tilt in either direction shall alarm operator > Inclination > Internal Temperature
Lowering Device	> Built in Lowering Device - Non-proprietary J-hook for lowering and retrieval of crawler
Sonde transmitter	> Built-in Multi-Frequency Sonde Features: - 33 MHZ, 512 MHZ, and 640 MHZ - Must have all three (3) frequencies <b>NO EXCEPTIONS</b>

**Camera**

<b>Pan &amp; Rotate Camera</b>	
Camera	Pan & Rotate Zoom Camera
Rotation	360° endless rotation range
Pan	±135° pan
Pressure Rating	1 bar (14.50psi)
Image Sensor	High resolution color CCD image sensor
Lighting	> Six (6) adjustable LED lights > 12.5k Lux at 150mm
Focus and Iris Control	Auto focus / Auto iris
Zoom factor	3x digital zoom

Camera Connection > Contact point connection  
***Pin and socket style connection will not be accepted***  
 > Camera's connection to crawler will utilize a wedge lock

Self-Leveling > Camera will have automatic self-level mode  
 > Self level mode has the ability to be overridden

**Pan & Rotate Camera with Built in Laser**

Camera Pan & Rotate Zoom Camera  
 Rotation 360° endless rotation range  
 Pan ±135° pan  
 Pressure Rating 1 bar (14.50psi)  
 Image Sensor High resolution color CCD image sensor  
 Lighting > Six (6) adjustable LED lights  
 > 12.5k Lux at 150mm  
 Focus and Iris Control Auto focus / Auto iris  
 Laser > Camera to be equipped with 3 Lasers  
 - Built-in defect measurement  
 - Built-in pipe diameter measurement  
 - Point measurement  
 - Water level measurement

Zoom factor 10 x optical 12 digital (120x)

Camera Connection > Contact point connection  
***Pin and socket style connection will not be accepted***  
 > Camera's connection to crawler will utilize a wedge lock

Self-Leveling > Camera will have automatic self-level mode  
 > Self level mode has the ability to be overridden

**Soft Rubber- Quick Release Wheel**

**4" Soft Rubber**

Material Soft rubber  
 Size Minimum 4" pipe: For use with small diameter crawler

**6" Soft Rubber**

Material Soft rubber  
 Size Minimum 6" pipe: For use with small diameter crawler

**6" Soft Rubber**

Material Soft rubber  
 Size Minimum 6" pipe: For use with mid-size crawler

**8" Soft Rubber**

Material Soft rubber  
 Size Minimum 8" pipe: For use with mid-size crawler



## Carbide- Quick Release Wheel

### 4" Carbide

Material Fragments fused to a heavy duty stainless steel body  
Size Minimum 4" pipe: For use with small diameter crawler

### 6" Carbide

Material Fragments fused to a heavy duty stainless steel body  
Size Minimum 6" pipe: For use with mid-size crawler

### 8" Carbide

Material Fragments fused to a heavy duty stainless steel body  
Size Minimum 8" pipe: For use with mid-size crawler

## Lighting Options

### Auxiliary Light with Backup Camera

Lighting > 3 Ultra bright LED lights  
Minimum Pipe Diameter > 6" pipe when used with small diameter crawler  
> 8" pipe when used with mid- size diameter crawler  
Backup camera Built in

## Additional Accessories

### Weight Plate

Compatibility > Compatible with-  
- Mid-size crawler with manual lift  
- Mid-size crawler with automatic lift

### Cable Roller Guide

Design > Flexible with 2 hinge points  
> 4 tapered nylon rollers  
Deployment Attached to a rope

### Pressurization Kit

Regulator > 5/8th female thread for CO2 cartridges  
> Pressure gauge  
> Standard female valve-stem adapter with locking latch  
Storage Comes standard with padded hard case for protection

## Pipelogix Reporting Software

Concurrent License  
Implementation  
Phoenix Basic  
Phoenix Database  
Synchronization Module  
Phoenix GIS  
Phoenix GIS Toolbar  
Phoenix Mainline  
Phoenix MPEG-4

Phoenix Scheduler  
Module  
Phoenix SQL

**Additional Items**

Setcom CSB-990MAX QTY 2 Setcom CSB-990MAX Wireless Communication  
Headsets

**END OF SECTION**