Purchase Order

Page of 2 1

DO NOT INVOICE THIS ADDRESS

City and County of Denver Purchasing Division 201 W. Colfax Ave Dept. 304 Denver, CO 80202 United States of America Ph: 720-913-8100 Fax: 720-913-8101



Purchase Order Number	PO-00162973
Purchase Order Date	Feb 21, 2025
Contract ID	
Payment Terms	Net 30
Payment Type	ACH
Buyer	Christina Buster
	(720) 913-8155
	Christina.Buster@denvergov.org

Ship-To

5440 Roslyn St Denver, CO 80216 United States of America Donnie Cruz

Bill To

Bill To Same As Ship To Denver, CO 80202 United States of America Donnie Cruz

	Currency	Total Lines Amount	Tax Exempt	Total PO Amount
	USD	\$543,887.92	98-02890-0000	\$543,887.92
Shipping Terms		Shipping Method	Shipping Instructions	
FOB Destination		Common Carrier		

			Go	ods Lines				
Line Number	Item Name	Supplier Item Identifier	Description	Due Date	Unit of Measure	Quantity	Unit Price	Line Amount
1			Ford F-600 Schwlam Talpa FSR Robotic System – Quote 121624SF, State Award# HGAC TP07-18, Ref# 24-136 To Replace DW7		Each	1	\$543,887.92	\$543,887.92



Supplier

VORTEX COLORADO INC **FILE 1525** 1801 W OLYMPIC BLVD PASADENA, CA 91199-1525 United States of America Ph: (714) 4348955

Agency Contact: Donnie Cruz 720-582-2679 donnie.cruz@denvergov.org

Vendor Contact: Sean Fuller 936-827-6109 sfuller@vortexcompanies.com

Delivery: Monday through Friday between 8:00 am and 1:00 pm by appointment only

Location:

City and County of Denver Fleet Management 5440 Roslyn Street, Building C Denver, CO 80216 Coordinate Delivery: (720) 865-3900

Title to Read:

City and County of Denver 201 West Colfax Avenue Dept 304 Denver, CO 80202

Documents to be Provided Upon Delivery:

• Application for Title, State of Colorado

Odometer/Hours Statement

Internal Reference Ref# 24-136 to replace DW7

Vendor to fill in and submit attached Exhibit Vehicle Check-In.

Delivery will NOT be considered complete without the Vehicle Check-In form and payment will not be remitted.

REFER TO EXHIBITS "A" FOR SERVICE DESCRIPTION AND PRICING ONLY.

Purchase pursuant to DRMC 20-64.5. The terms and conditions herein supersede and replace all terms and conditions of HGAC TP07-18.

3.26(e)-This Purchase Order is contingent on Council approval and is void without such action.

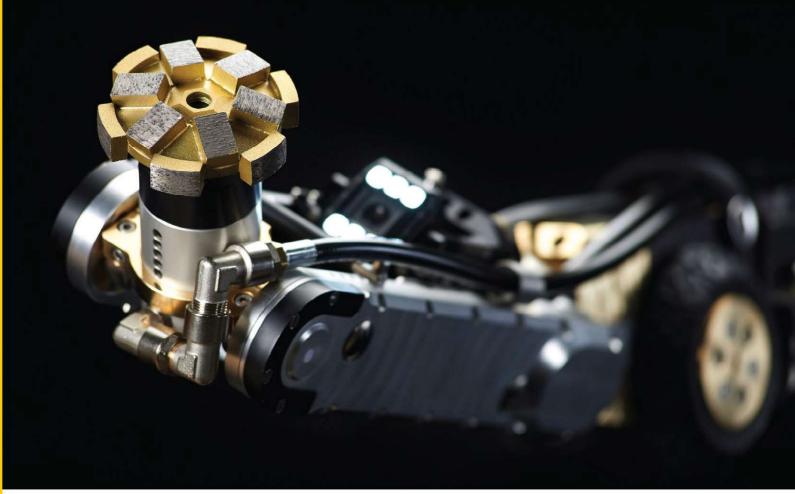
Potoco,

Authorized By

By accepting this Purchase Order you agree to the Terms and Conditions of the General Services Purchasing Division. Follow the URL provided to the Purchase Order Terms and Conditions – https://denvergov.org/files/assets/public/v/1/purchasing/documents/ generalservicespurchasing_general_conditions_of_purchase_11242021.pdf



EXHIBIT A



SCHWALM ROBOTIC SYSTEMS QUOTE Talpa FSR 2060

PRESENTED TO: Donnie Cruz – Ref# 24-136 City & County of Denver, CO

DATE: January 28, 2025 **POINT OF CONTACT:** Sean Fuller

+1-936-827-6109

QUOTE #: 121624SF



1-855-WHYDIG1 | www.vortexcompanies.com



DATE: January 28, 2025

```
Rick Abeyta, P.E., CFM
City & County of Denver
1600 W 12<sup>th</sup> Ave
Denver, CO 80204-3412
USA
```

RE: Schwlam Talpa FSR Robotic System F-600 – Quote 121624SF

Dear Rick,

On behalf of the Vortex Products division, it is my pleasure to present you with our quote for a Schwalm Talpa FSR 1330 & 2060 12-pin Cues compatible robotic cutting system integrated into a new Ford F-600. At Vortex we understand that you are making a substantial investment into the upgrade of your equipment and materials for improved installation efficiencies and product performance.

Enclosed you will find the following:

- Price quote
- Detailed list of included equipment and materials
- Product brochure

Beyond this purchase, it is important to know that we are here to help you succeed by offering classroom and field training, technical support, equipment repair and maintenance services, as well as remote troubleshooting when necessary.

For your reference here is a list of the cooperative agreements we are a part of:

- BuyBoard Contract Numbers 731-24 & 730-24
- TIPS Contract Number 231102
- HGAC TP07-18

In the meantime, if you have any questions regarding this quotation, I can be reached at Ph: +1-936-827-6109 or email <u>sfuller@vortexcompanies.com</u>.

I look forward to speaking to you soon.

Sincerely,

Sean Fuller TSM/BDM Vortex Companies

HGA	CBuy	CONTRACT PRICING For Catalog & Price Sheet		Contract No.:	TP07-18	Date Prepared:	1/28/2025
This Wo		prepared by Contractor a faxed to H-GAC @ 713-9	-				cuments
Buying Agency:	City & Count	y of Denver, CO	Contractor:	Vortex Compar	nies		
Contact Person:	Donnie Cruz I	Ref #24-136	Prepared By:	Ashley Smith			
Phone:			Phone:	864-546-8801			
Fax:			Fax:				
Email:			Email:	Ashley.smith@	vortexcompanie	es.com	
	· / Price Sheet /ame:	Form D - Products and Services Offer	rings (Tab B)	:			
	Description Product:	Schwalm Robotic Systems Quote					
		ns being purchased - Itemize Below -	Attach Additional Sheet	t If Necessary			
Quan	1	Des	cription			Unit Pr	Total
1	BB109 Schwa	Ilm Turn Key Truck Build	•			502,180.00	502,180
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		1.17.00 M 2017011 1 1 1 10 20 3	warman an a		Active C		C
							(
							C
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							C
				Tot	al From Other	Sheets, If Any:	
						Subtotal A:	502180
		cessory or Service items - Itemize Bel any which were not submitted and price		Sheet If Necessa	ry		
Quan		Des	cription			Unit Pr	Total
1	UV Packer Sy	vstem				40,507.92	40507.92
3	Spare Keys					400	1200
							C
							C
				Tot	al From Other	Sheets, If Any:	
						Subtotal B:	41707.92
Check		Unpublished Options (B) cannot exceed a e Unit Price plus Published Options (A+		For this tra	nsaction the pe	ercentage is:	8%
C. Trade-Ins	/ Special Disco	unts / Other Allowances / Freight / In	stallation / Miscellaneou	us Charges			
						Subtotal C:	C
	De	livery Date: Upon Paym	ent E). Total Pur	chase Price	(A+B+C):	543887.92



Formal Quotation Quote # 121624SF PROPOSED 2060/1330, 12-Pin SYSTEM (CUES)

• Large and Small Robot, Reels, Controls & Accessories for 6"-24" pipe

Date: January 28, 2025

Salesperson: Sean Fuller

Customer: Donnie Cruz – Ref# 24-136 City & County of Denver Ship To: 5440 Roslyn St Denver, CO 80216

Quantity	Part #	Description	U	nit Price	L	ine Total
1	L03295	Analog Control Unit 19" Rack	\$	23,750.00	\$	23,750.00
1	L02162	Talpa 2060 Robot 12 pin CUES with MiNa Analog Camera	\$	99,900.00	\$	99,900.00
1	L02153	Talpa 1330 Robot 12 pin CUES with MiNa Analog Camera	\$	76,500.00	\$	76,500.00
1	SCH-CR-C-1000	Schwalm Cable Reel, 1000' Cues Gold Cable	\$	24,000.00	\$	24,000.00
1	THR500	Schwalm Air/Water Motorized Reel 500' of fused 3/4" air line and 1/4" water line with 20gal water tank fully assembled	\$	19,500.00	\$	19,500.00
1	19969	Air Motor 2060 with Accessories	\$	3,295.00	\$	3,295.00
2	19968	Air Motor 1330 with Accessories	\$	3,095 <u>.</u> 00	\$	6,190.00
4	000464-01	Carbide Wheels for 2060 Robot	\$	525.00	\$	2,100.00
4	000452-01	Carbide Wheels for 1330 Robot	\$	475.00	\$	1,900.00
4	Z00147-01	Large Wheels for 16" - 24" Pipe	\$	850.00	\$	3,400.00
1	Z00143-01	Motor Lifter for Talpa Robots	\$	1,100.00	\$	1,100.00
1	BL11450-M14	Large Black Milling Ball Version 2	\$	1,350.00	\$	1,350.00
1	BL11449-M14	Small Black Milling Ball Version 2	\$	1,000.00	\$	1,000.00
1	20049-P-M14	Large N-TEC II Mushroom Milling Cutter Head	\$	475.00	\$	475.00
1	20050-P-M14	Small N-TEC II Mushroom Milling Cutter Head	\$	425.00	\$	425.00
1	SCHGRABASS	Schwalm Grabber Assembly	\$	1,595.00	\$	1,595.00
1	Z00328-02	Air Chisel Talpa 2060 Cup Mount	\$	2,295.00	\$	2,295.00
1	VPC24-18	Power Boom Crane with Lights	\$	8,500.00	\$	8,500.00
1	F-600	Ford F-600 - 16' Box - Custom built and upfitted for seamless Schwalm Robotic cutter operations. Custom-built, climate controlled powerhouse, meticulously tailored to streamline your work with comfort, precision, and efficiency. Equipped with custom reel rack, purpose-built cabinetry, state-of-the-art lighting, storage solutions, and more.	\$	213,500.00	\$	213,500.00
1	VMAC	VMAC Under-the-Hood Compressor	\$	22,000.00	\$	22,000.00
1	DISC	Grabber Discount	\$	(1,595.00)	\$	(1,595.00)
1	DISC	Customer Discount	\$	(9,000.00)	\$	(9,000.00)
		Grand Total		502	,18	30.00

INTEGRATION DISCLOSURE: The Integration cost is contingent upon the condition of the truck provided. The amount quoted above represents a dynamic average for the customary work involved. Please refer to the subsequent page for further details.

NOTES:

1. Quote is Valid until February 27, 2025

VORTEX COMPANIES BRANDS

SCHWALM USA | PARSON ENVIRONMENTAL | QUADEX*

Please Click Here to View Terms and Conditions



Formal Quotation PROPOSED UV Packer System

Quote # 121624SF

• Large and Small Robot, Reels, Controls & Accessories for 6"-24" pipe

Date: January 28, 2025	Salesperson: Sean Fuller
Customer: Donnie Cruz – Ref# 24-136	Ship To: 5440 Roslyn St
City & County of Denver	Denver, CO 80216

Quantity	Part #	Description		it Price	Line Total	
1	90200002	UV LED Packer 6-12" for 48" Patches	\$	28,125.00	\$	28,125.00
1	90200021	Control Box for UV Packer	\$	5,700.00	\$	5,700.00
1	90200060	End Caps for UV Packer 6-8"	\$	468.75	\$	468.75
1	90200061	End Caps for UV Packer 10"	\$	412.50	\$	412.50
1	90200062	End Caps for UV Packer 12"	\$	881.25	\$	881.25
1	10001157	Silicone Bladder UV Packer 6-8″	\$	543.75	\$	543.75
1	10001158	Silicone Bladder UV Packer 10″	\$	637.50	\$	637.50
1	10001159	Silicone Bladder UV Packer 12″	\$	712.50	\$	712.50
1	90200043	Connecting Cable UV Packer 75m		2,400.00	\$	2,400.00
1	UV-REG	UV Packer Air Regulator	\$	183.75	\$	183.75
2	UVCLAMP68	Band Clamp 110-130mm for 6-8"	\$	2.21	\$	4.42
2	UVCLAMP10	Band Clamp 150-180mm for 10"	\$	3.64	\$	7.28
2	UVCLAMP12	Band Clamp 190-220mm	\$	4.36	\$	8.72
1	UV-PULL	Coated Steel Pull Cable	\$	172.50	\$	172.50
1	SCH-UV-ADPT	Schwalm Adapter for UV Packer	\$	250.00	\$	250.00
		Grand Total	\$	40	,50	07.92

NOTES:

1. Quote is Valid until February 27, 2025

VORTEX COMPANIES BRANDS

SCHWALM USA | PARSON ENVIRONMENTAL | QUADEX*

Please Click Here to View Terms and Conditions



INTEGRATION COST DISCLOSURE STATEMENT

Effective: September 18, 2023

Notice of Integration Cost Variability

This Integration Cost Disclosure Statement ("Disclosure Statement") is provided to inform our valued customers about potential variations in integration costs associated with our services. At Schwalm USA, we are committed to transparency and ensuring that you have a clear understanding of how integration costs may be subject to change.

Integration Cost Fluctuations

The integration cost provided to you is an estimate based on the condition of the truck at the time of assessment. It is important to understand that the actual integration cost may vary due to several factors, including but not limited to:

Truck Condition: The condition of the truck, including its age, maintenance history, and overall state, can significantly impact the integration process. Unexpected repairs or additional work may be necessary, which can affect the final integration cost.

Parts and Materials: The cost of parts and materials required for the integration process can fluctuate due to market conditions, availability, and supplier pricing changes.

Labor Costs: Labor costs may vary based on factors such as complexity, labor rates, and the time required to complete the integration. Unforeseen challenges during the integration process may also affect labor costs.

Regulatory Changes: Changes in regulations and compliance requirements related to truck integration can lead to additional costs or modifications needed to meet new standards.

Customization Requests: If you have specific customization requests or additional features you wish to integrate, these can impact the final cost, and we will communicate any associated changes.

Our Commitment

While integration costs may be subject to change, we are dedicated to maintaining open communication with our customers throughout the process. Our team will keep you informed of any cost adjustments as soon as they become necessary due to unforeseen circumstances or changes in project scope.

Estimate Accuracy

We strive to provide accurate estimates based on our initial assessment of the truck's condition and your project requirements. However, please understand that estimates are not guarantees, and the final integration cost may be different from the initial estimate.

Customer Approval

Before proceeding with any changes that may affect the integration cost, we will seek your approval and provide a revised cost estimate for your consideration. Your satisfaction and understanding of the costs involved in your integration project are important to us.

By affixing your signature to the following page and accepting this quotation, you signify your acknowledgment that you have thoroughly reviewed and comprehended the contents of the Integration Cost Disclosure Statement.



SCHWALM ROBOTIC SYSTEM

Payment Terms

Payment shall be due in full within 30 days (net 30) from the date of delivery of the unit.

NOTICE

- 1. Due to extreme supply chain volatility across the industry, product pricing is now valid for 30 days. Should you have prior prices or quotes please reach out for updated pricing regularly until further notice.
- 2. Please contact <u>sales@vortexcompanies.com</u> to qualify and lock-in pricing for specific projects and or time frame.
- 3. All prices are subject to local sales and use taxes.
- 4. Customer is responsible for offloading equipment at time of delivery.

CUSTOMER PURCHASE ORDER AUTHORIZATION

The following section is to be completed by the Customer and constitutes a legal and binding purchase order agreement by and between Schwalm USA and the undersigned Customer. This agreement is for the manufacture, and delivery, of the above referenced equipment, selected options and accessories, by Schwalm USA, to the undersigned Customer. Any cancellation of this binding agreement by the Customer, on or prior to the delivery date of the equipment, will result in the forfeiture of the Customer's down payment. This agreement is subject to Schwalm USA <u>Terms and Conditions</u> effective on the date this agreement is received, which are incorporated in full by this reference. Schwalm USA reserves the right to refuse acceptance of any order.

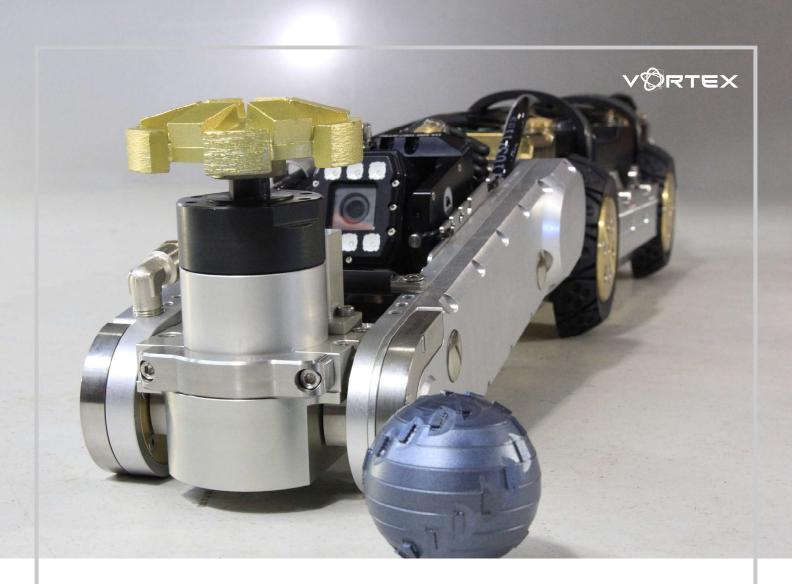
Customer:	Purchase Order #:
Accepted By:	Title:
Authorized Signature:	Date:
	Total Purchase Order Amount: \$ (Standard Equipment + Options + Delivery Charges)
	Quote Valid Until:



MULTI-PURPOSE PIPELINE REHAB ROBOTS



REV. 11-09-2023



Schwalm Talpa Robots

- Air-driven
- Rugged and durable
- USA Service and support
- Interchangeable attachments
- High-resolution camera
- Can integrate with most CCTV systems

SCHWALM TALPA FSR 1330

For 6" - 12" Pipe

SCHWALM TALPA FSR 2060

For 8" - 24" Pipe

DEGREES OF FREEDOM

- Robot carriage: drives forward/backward
- Access arm: swivels up/down
- Access arm: swivels clockwise/
 counterclockwise
- Tooling mount: swivels about transverse axis up/down
- Camera: 270° camera swiveling in lateral axis (+/- 135°)





Cut Through Pipes and Protruding TAPS Faster

POWERFUL EFFICIENT



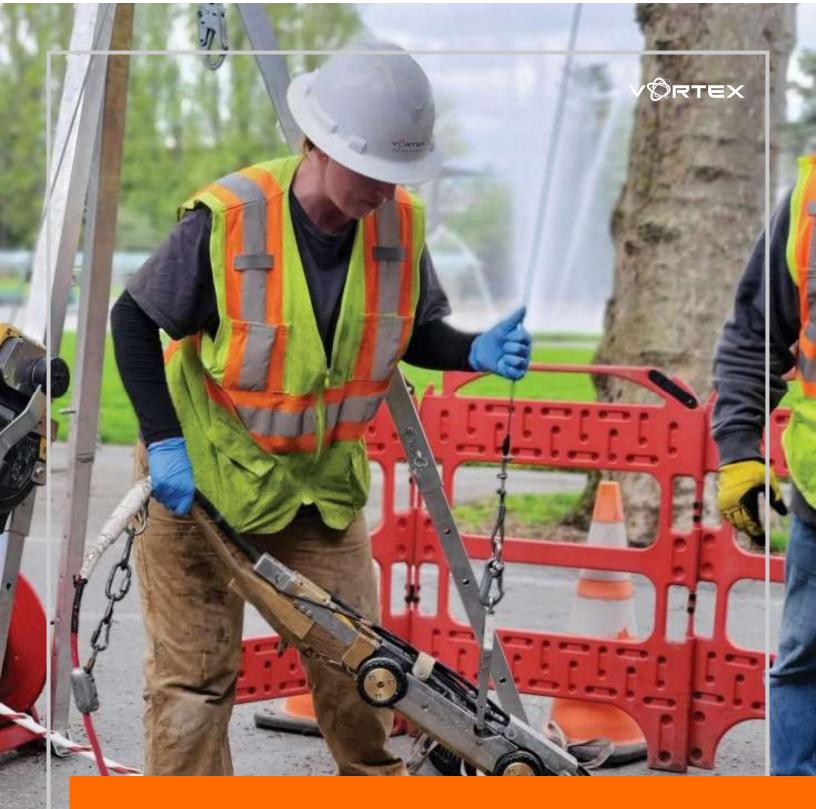
Cut Through Pipes and Protruding TAPS Faster

The incredibly powerful Schwalm Talpa series delivers fast and efficient grinding and cutting solutions. Simply add one of many cutting heads and experience the power for yourself. The Liner Cut Pro ball milling head easily cuts through liners, PVC, and other plastic materials that often protrude from laterals. For tougher jobs, attach our Mushroom Milling Cutter to cut through clay, cement, even ductile iron.

RELATED ATTACHMENTS

- Mushroom Head Milling Cutter
- Tungsten Carbide Ball Cutter
- Polycrystalline Diamond (PCD) Ball Milling Cutter





Patch and Plug

QUICK COMPATIBLE



Patch and Plug

INSTALL LATERAL CONNECTION SEALS

Known for its cutting capabilities, Schwalm robots are also widely used to install lateral connection seals to stop infiltration and exfiltration.

PERFORM POINT REPAIRS

Schwalm is compatible with standard point repair systems to install pipe patches and inner pipe sealing systems.

QUICKLY INSTALL LATERAL PLUGS

Use the **Schwalm Reusable Lateral Plug** to temporarily or permanently plug laterals and dead-end lines. The entire process only takes a few minutes to complete.

RELATED ATTACHMENTS

- Pipe-Robo-Tec®
- Compression Plugs
- Mechanical Packer Air Hose
 Assembly







HIGH PRESSURE





AccuPower[®] High Pressure Water Jetter

VORTEX ACCUPOWER® HIGH PRESSURE WATER JETTER

The AccuPower delivers up to 40,000 psi of ultra high power, water jetting performance for the most demanding pipe cleaning and cutting projects. **Powered by Schwalm**, AccuPower will clean, clear, and cut through obstructions with ease in **pipes ranging from 8-48**" in **diameter.**

LEGENDARY SCHWALM VERSATILITY

Turn your Schwalm 2060 into a 40,000 PSI precision cleaning machine in minutes! Not much stands in the way of AccuPower High Pressure Waster Jetter. It can clean, cut and slice through the toughest materials with ease.



Note: European kit components slightly different.

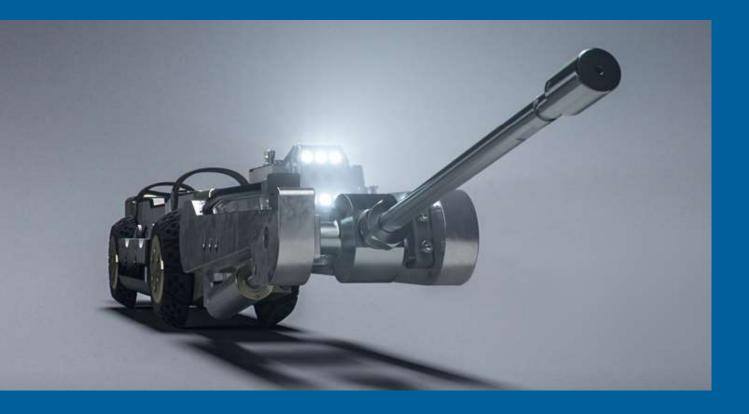
BASE PACKAGE

The Vortex AccuPower Water Jetter is currently compatible with the Schwalm 2060 model, and includes the following:

- Pelican Case (for safe storage of kit components)
- AccuPower swivel arm attachment (1)
- Hose Whip (1)
- Twin Jet Spray Bar (1)
- 4" Lance with caps (1)
- 12" Lance with caps (1)
- 8 Jets in the following sizes:
 0° Jets #.027 & .038 (4)
 15° Jets #.027 & .038 (4)
- Camera lens protector with 10 shields
- Blue Goop, oil-based thread lubricant
- Water Proof Caulk & Seal (for face plates)
- Hose and Reel Cage (including 100-200 ft. of additional hose)
- Training Program with Certificate of
 Completion







Choice of Nozzles Based On The Job







THE ACCUPOWER® PACKAGE INCLUDES THREE HIGH PERFORMANCE NOZZLES FOR MAXIMUM CLEANING AND CUTTING POWER

4" Lance

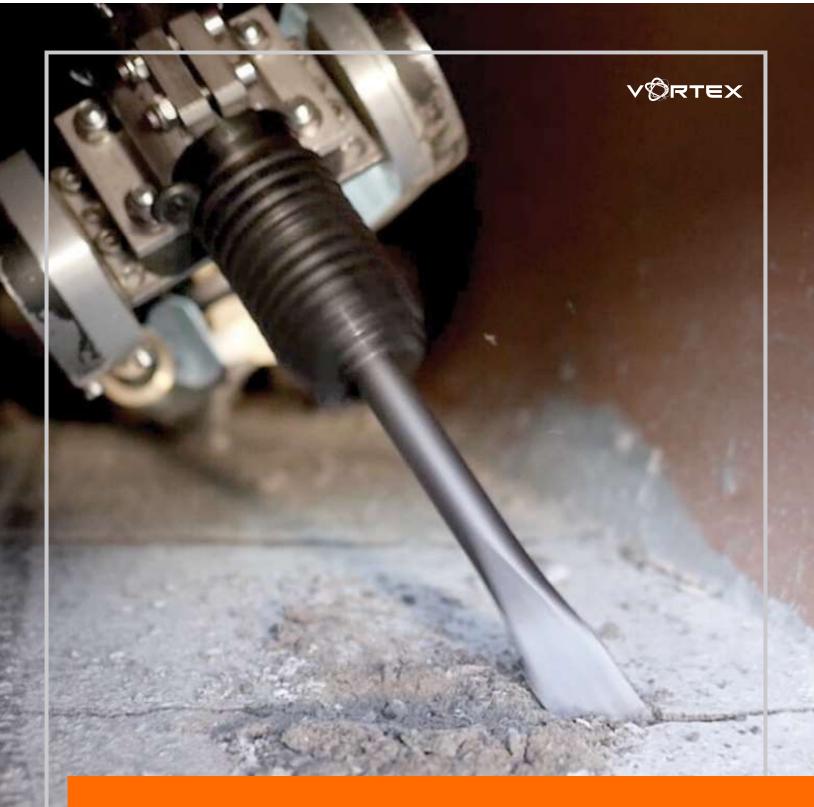
The 4" Lance is equipped with 0° and 15° jets for aggressive cutting and standard cleaning/cutting applications. Adjustable Lance Caps, ranging from 3mm to 30mm, are included for cutting multiple CIPP liner thicknesses.

12" Lance

The 12" Lance also feature 0° or 15° jetter options and two CIPP caps. This nozzle is designed for removing CIPP in pipe sizes 20" and up. It also comes in handy when you need to create distance between the debris and the camera.

Twin-Jet Spray Bar

The Twin-Jet Spray Bar attachment is used for removing debris from the bottom of the pipe without damaging its surface.



Cleaning Capabilities

PRECISE RUGGED



Cleaning Capabilities

Looking to descale and clean 6"-24" pipes with ease? Schwalm's **durable, precise and rugged characteristics** allow for fast and efficient cleaning. Choose from a variety of attachments to best fit your cleaning needs!

RELATED ATTACHMENTS

- Robo Cyclone[™] The industry's best premium descaling chain just got better.
- Robo Smart Spider[™] Quickly convert your Schwalm into a descaler for fragile pipes.

- Robo Smart Cutter[™] Grind away seams, welding beads, and other inconsistencies in the pipe quickly and easily.
- Robo Grabber Exclusively designed for a Schwalm, it turns your robot into a retrieval device.
- Ripsaw[™] Rotating Turbo Nozzle Cut through roots, grouts and cements, blasts through grease, as well. The Ripsaw blasts a 0° water stream up to 3200 PSI. Provides 18° cone of coverage.

Fast and Efficient Pipe Prep

With the **highly versatile** Schwalm robot, it's never been easier to prep your pipe for rehabilitation! Choose from a wide variety of available attachments to **attack your pipe's condition** and remove unwanted materials from your pipe. With a Schwalm, you can prep pipes ranging from 6" to 24".

RELATED ATTACHMENTS

- Chisel for Talpa 2060
- Robo Grabber™
- Air Grinder: Use your Schwalm with our Pneumatic Disc Grinder, rotating at 12,000 rpm, for removing excess material or cutting metallic objects into pieces.



Picote Robo Tools

Picote Robo Tools are exclusively available ONLY for Schwalm Robots. A specially designed air motor can be mounted on an existing Schwalm Talpa FSR 2060 Robot to operate the new tools. The air motor, developed by Schwalm Robotics GmbH, runs at max 1,500 rpm. Combine Picote's exclusive Robo Tools with the advanced Schwalm Robotic System to create a powerful and versatile solution for your job site.

ROBO SMART CUTTER™

Take advantage of the fine-tuning power of the Robo Smart Cutter. Use the cutting ball and then follow up with this incredible attachment. Grind away seams, welding beads, and other inconsistencies in the pipe quickly and easily. Steering option included. Available sizes: 6", 8", 10" and 12"

ROBO CYCLONE™

Descale pipe like never before with the Picote Premium Cyclone Chain. Mount the Robo Cyclone on a robot for efficient cleaning and grinding. Available sizes: 6", 8", 10" and 12"

ROBO GRABBER™

Turn your robot into a retrieval device by adding the Robo Grabber. Remove items from hard-to-reach places. Reclaim a tool or item weighing up to 77 lb. Available sizes: Regular Grabber for 4" or larger pipes.

ROBO SMART SPIDER™

Descale fragile pipes with ease with your multi-use robot. Gentle on brass connections in water mains. Available sizes: 6" & 8"





Schwalm Mobile Robotics System Trailer

Ask about the Schwalm Mobile Robotics System Trailer that is **equipped with everything you need** to conduct full-scale inspecting, cleaning, and cutting operations!

Base and custom-built models available.

Existing CCTV System? Schwalm is completely compatible with all industry-leading CCTV equipment! This saves you money and reduces your capital equipment expenses. Designed for ultimate efficiency, every Schwalm Trailer comes with these exclusive Schwalm components:

- Talpa FSR 2060 Robot
- Talpa FSR 1330 Robot
- 500 LB Crane with Lighting
- 500 FT Air Hose Reel
- 660 FT Cable Reel
- Wash Down Tank for Cleaning Robots and Lens
- Comprehensive Control Unit
- Double Monitors
- Built-in Generator, Air-Compressor
- Solar Panels
- Built-in Joy Sticks (Desk Top)
- Optional PS4 Controls
- And Much More!



WWW.VORTEXCOMPANIES.COM SALES@VORTEXCOMPANIES.COM

1-855-WHYDIG1 18150 IMPERIAL VALLEY DR. HOUSTON, TX 77060





TECHNICAL DATA SHEET

United Point Repair - UV System

SPECIFICATIONS

- Exceeds the structural properties of ASTM F1216 & F3541
- Tensile strength: ASTM D638 > 8,702 psi
- Flexural modulus: ASTM D638 > 2200 psi
- Flexural strength: ASTM D790 > 8,702 psi

VOC & STYRENE FREE

- Reduced health risk to crew
- Less odor emitted to local surroundings

UPR-UV KIT PART #	PART DESCRIPTION
UPR 6X24-UV	6"X24" UV Point Repair
UPR 6X48-UV	6"x48" UV Point Repair
UPR 8x24-UV	8"x24" UV Point Repair
UPR 8x48-UV	8"x48" UV Point Repair
UPR 10x24-UV	10"x24" UV Point Repair
UPR 10x48-UV	10"x48" UV Point Repair
UPR 12x24-UV	12"x24" UV Point Repair
UPR 12x48-UV	12"x48" UV Point Repair

Note: United Point Repair - UV can only be used to install patching material for pipes ranging from 6" to 12" diameter.



Reliable, Cost-Effective, and Seamless Spot Repair for Mainline Pipes

DESCRIPTION

Address I&I, exfiltration, roots, and off-joint connections without the hassle and expense of a complete reline. United Point Repair - UV (UPR-UV) uses clean ultraviolet light cure technology for reliable mainline point repair.

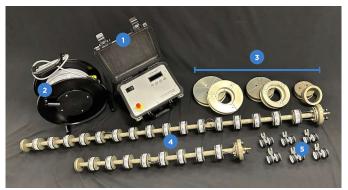
Its no-shrink design anchors itself within the pipe and averages just 0.13" thick after curing.

UPR-UV features highly chemical resistant, styrenefree UV resin with an extremely high glass Transition temperature of 266°F | 130°C.

ADVANTAGES

- FAST: Cures completely in only 10 minutes, allowing crews to complete more jobs
- VERSATILE: Repairs in mainlines 6"-12" made of concrete, PVC or vitrified clay pipe
- SEAMLESS: Transitions smoothly into the host pipe walls, with minimal reduction in flow capacity
- STRONG: Restores pipe sections with durable bonding

UNITED POINT REPAIR - UV CURING KIT COMPONENTS



- 1 Control Box 2 — Cable Drum 3 — End Caps
- 4 UV Packer/Light Sets
 5 Wheel Sets
 6 Silicone Bladder for Packer (not shown)

REV. 09-04-2024

POINT REPAIR



CITY PO EXHIBIT City and County of Denver Fleet Management Vendor Supplied Information Data

City Unit(s) #

(City Use Only)

ENTER CITY PURCHASE ORDER NUMBER: PO-____

Example:PO-00003584

The following <u>underlined forms</u> and information are <u>REQUIRED</u> for new vehicle deliveries:

Copy of entire Purchase Order (<u>all pages)</u>
	tatement of Origin) – is required for all ruction equipment. May receive one for icturer issues one.
Name of purchaser: Address:	City and County of Denver 201 W. Colfax Ave. Dept. 304 Denver, CO 80202
Such as cars, pickup[s, vans and a	<u>2407)</u> – IN STATE ONLY – Required for on the road vehicles ny vehicle under 16,000 GVWR. Not needed if odometer MSO. Not required on vehicles over 16,000GVWR LBS.
Application for Title and Registrative vehicles and trailers.	ation (DR2395) – Required for all on-road
	tion Number (DR2698) – Required for all te dealer, incomplete vehicle. I.E. Cab and
	equired on all vehicles with modifications to the cab and chassis. gine, etc. The statement of fact must include the modifications chassis and equipment.
	(DR2689) - Required on all off road and end loaders, tractors, skid steer loaders, raders, etc.
	mplete vehicles that are made into a complete vehicle) – and all on type equipment. (Front end loaders, sweepers, graders, air
<u>Temporary License Plate</u> – Requ Equipment.	uired for all on-road vehicles. Not required for off road
Original Dealer Invoice – Requir Road.	red for all vehicles on and off the
Receipt or Contract for Optional	Warranty – Only if spec or called out on P.O.
Shop and Parts manuals (as red show as a line item of P.O.	quired) (CD or electronic form preferred) – Only if spec or
Standard Sales Tax Receipt for Ve disclose the purchase amount to the	hicle Sales (DR0024)-IN STATE ONLY- Required for purchases to ne state.

Dealer Signature: _____ Date: _____