HYDRA·FLEX
FLUID INNOVATION

PRODUCT CATALOG

HYDRO-EXCAVATION

SEWER JETTING

INDUSTRIAL CLEANING

VOLUME 4
Revl

hydraflexinc.com

DELIVERY MADE EASY

with Hydra-Flex & Our Distribution Network

Hydra-Flex is a premium brand that has built a reputation of industry-leading innovation and superior quality for over 20 years.

We collaborate with top-tier dealers worldwide to ensure widespread distribution of our products. Thanks to our parent company's nationwide distribution network, we can deliver products to our partners faster than ever so they can provide seamless delivery and service for customers everywhere.

Find a Hydra-Flex Dealer near you.



REQUEST A DEMO

Experience the power of our products – book a demo with your local dealer today!



24/7 SUPPORT

Our dedicated team is here to support you.

- Sales Support
- Customer Service
- Product Training
- Technical Support
- Marketing Support

A PATH TO SUCCESS

We continually develop new products, expand our offerings, explore new applications and industries, and enhance our services to meet your needs.

Check out this video to learn more about us.

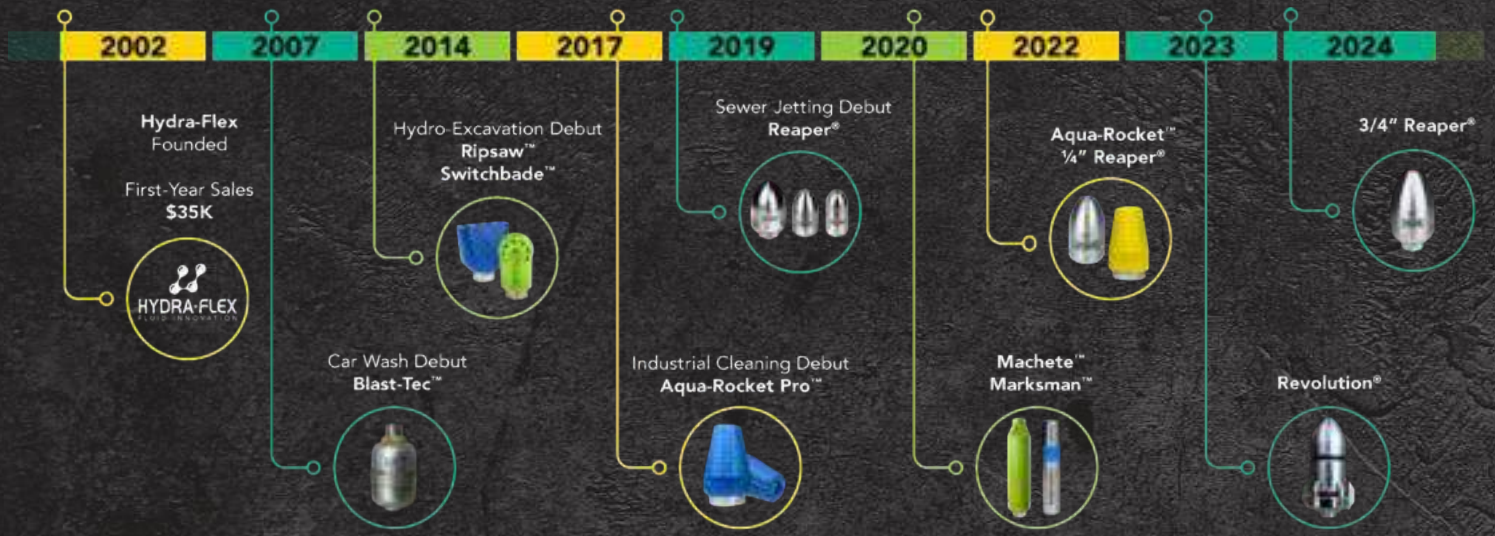


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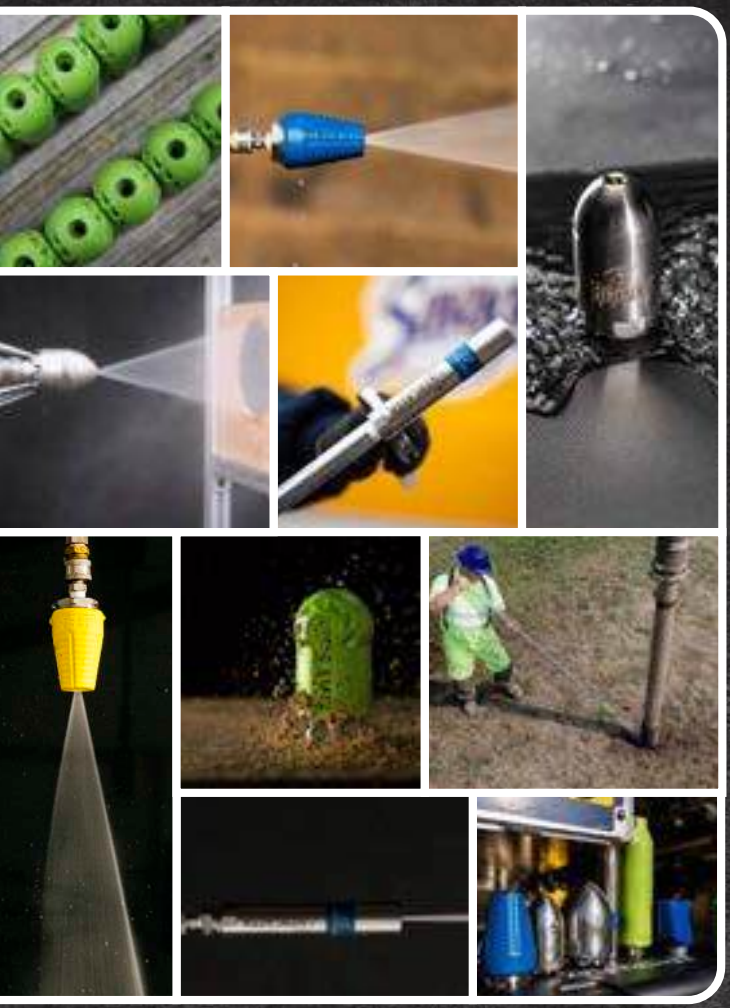

Marksman™ 37

SAFETY 41

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WATER-SAVING TECHNOLOGY
THE HYDRA-FLEX ADVANTAGE

Our patented water-saving technology sets us apart from competitors. **Flow-Straightening Technology** utilizes laminar flow to ensure every fluid particle flows along one smooth path to **maximize force while using less water.**



WHAT WE DO
LAMINAR FLOW
Smooth and streamlined, all molecules move in the same direction at the same speed



COMPETITORS
TURBULENT FLOW
Swirling and chaotic, all molecules flow in different directions at different speeds





VISIT OUR VIDEO LIBRARY!

Product Videos | Let's Talk About Series | Testimonials
Hydra-Flex vs. the Competition | Repair Kit Tutorials and more!

LOCAL EXPERTS

Our team of passionate problem-solvers are equipped with the resources to innovate, engineer, test, and manufacture quality products locally, in Savage, Minn., USA.

REPAIR, DON'T REPLACE!



Our nozzles are designed to be repairable, extending product longevity and providing a better return on investment.

MORE THAN
38 BILLION

Gallons of water saved by Hydra-Flex products

OUTPERFORM, OUTLAST AND EXCEED STANDARDS

Benefit from superior products that are exceptionally engineered, quality tested to the highest standards, and outperform competitors to:



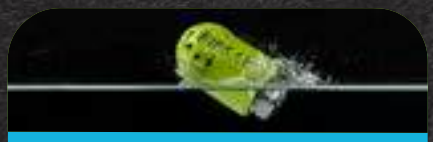
WORK FASTER

Increase efficiency and deliver faster results



LAST LONGER

Premium materials offer exceptional durability and longevity



USE LESS WATER

Reduce water usage without sacrificing performance



SAVE MONEY

Incredibly fast performance results in reduced operational costs and water savings



PG. 7-20

HYDRO-EXCAVATION

Cut through and break up soil with our high-pressure digging nozzles for precise, non-mechanical, and non-destructive excavation. They offer superior durability, outlast competitors, and have greater impact force than higher GPM nozzles.

Ripsaw HD™ | Switchblade™ | Machete™



PG. 21-30

SEWER JETTING

Our sewer jetting nozzles use high-pressure water jets to remove build-ups and eliminate blockages within pipe walls. These effective and versatile tools offer a complete solution for clearing obstructions and maintaining sewer lines.

Reaper® | 1" | 3/4" | 1/2" | 3/8" | 1/4"
Revolution by Reaper®



PG. 30-40

INDUSTRIAL CLEANING

Effectively and quickly clean any surface with our high-pressure cleaning nozzles. Based on application, water pressure, flow rate, and distance to surface, we can match you with the perfect cleaning solution.

Marksman™ | Aqua-Rocket™

HYDRO-EXCAVATION





RIPSAW™ HD

SWITCH BLADE™

MACHETE™

Watch our Hydro-Ex video playlist!

RIPSAW™ HD

HEAVY-DUTY, RELIABLE POWER

Industry-leading Spinner Tip

Pothole | Daylight | Debris Removal
Pile Hole | Frac Tank Cleaning



SPRAY PATTERN



"It's amazing! What the Ripsaw means to us is a nearly 30 percent increase in productivity. It's a simple thing on a half-million-dollar truck, and it makes a big difference."

Bruce Bergstrom, CEO
Energy Construction Solutions, Inc.

QUICK FACTS

- Flow Rates: 1.5 – 10.7 GPM
- Inlet Pressure: 1,000 – 3,200 PSI
- Nozzle Sizes: #3.0 – #12.0
- Max Temp: 180°F (+82°C)



FIND A DEALER at hydraflexinc.com

WATCH OUR RIPSAW VIDEOS





WHY CHOOSE RIPSAW?

- Stands tall against frost, shale, rocky soil, and more!
- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Heavy-duty, non-conductive Hytrel coating protects nozzle components, users, and utilities
- Constant rotating stream allows for safe digging around utilities when used as directed
  (Reference Best Practices & Safety Instruction on our website)
- Repair kits available for extended life



The Ripsaw HD's stream rotates at a slower RPM compared to other nozzles, which increases its digging power, improves control, and reduces wear and tear to lengthen its life.



The 18-degree rotating stream helps you dig deeper and faster to reduce water use.

- Less trips to the dump and truck refills
- Helps to maintain compliance with weight restrictions on truck

RIPSAW™ HD



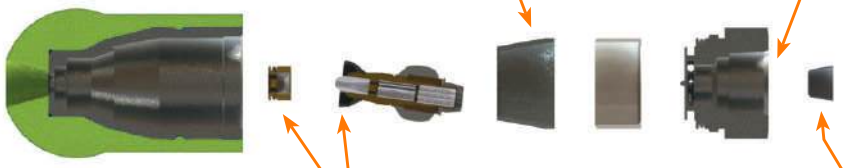
KEY FEATURES

Hytrel Coating
Protects users and sensitive underground utilities

Bonus: Lasts 2-3 times longer than previous coating

Rubber Boot
Provides a smooth rotation

Inlet Connection
1/2" FNPT



Tungsten Carbide Nozzle Tip and Seat
Materials proven to outlast ceramic nozzles

Inlet Screen
Protects nozzle from contaminants



Easily rebuild the Ripsaw in just 10 minutes with our field repair kits.

REPAIR KIT

Rubber Boot | O-Ring | Rotor Assembly | Seat Retainer | Inlet Screen | Top Insert



DOME INLET SCREENS

10 Pack



Part Number: 20019939

NOZZLE SIZE	RIPSAW HD NOZZLE PART NUMBER	REPAIR KIT PART NUMBER	FLOW RATE CHART (GPM)					
			@1,000 PSI (70 Bar)	@1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)	@3,000 PSI (207 Bar)	@3,200 PSI (221 Bar)
3.0	20022380	20022328	1.5 GPM (5.7 LPM)	1.8 GPM (6.8 LPM)	2.1 GPM (7.9 LPM)	2.4 GPM (9.1 LPM)	2.6 GPM (9.8 LPM)	2.7 GPM (10.2 LPM)
4.0	20022381	20022329	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)
5.0	20022382	20022330	2.5 GPM (9.5 LPM)	3.1 GPM (11.7 LPM)	3.5 GPM (13.2 LPM)	4.0 GPM (15.1 LPM)	4.3 GPM (16.3 LPM)	4.5 GPM (17.0 LPM)
6.0	20022383	20022331	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)	5.4 GPM (20.4 LPM)
8.0	20022384	20022332	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)
10.0	20022385	20022333	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)
12.0	20022386	20022334	6.0 GPM (22.7 LPM)	7.3 GPM (27.6 LPM)	8.5 GPM (32.2 LPM)	9.5 GPM (36.0 LPM)	10.4 GPM (39.4 LPM)	10.7 GPM (40.5 LPM)



OUTFIT YOUR RIG

Hydro-Excavation or Municipal-focused demo boxes are available to fully outfit your rig. Email us for more info.

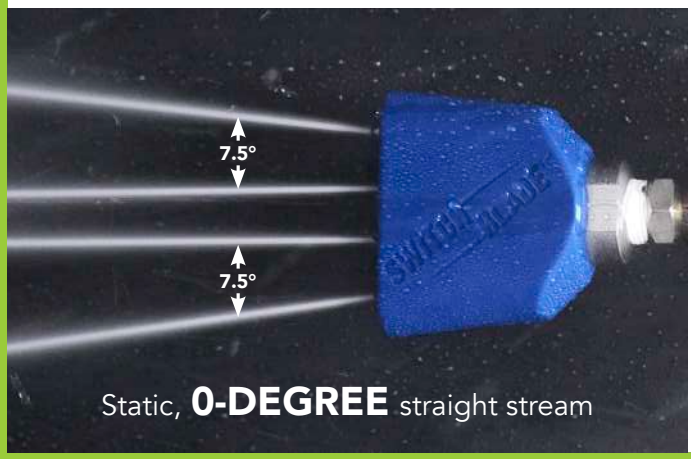
hello@hydraflexinc.com

FIND A HYDRA-FLEX DEALER IN YOUR AREA

SWITCHBLADE™

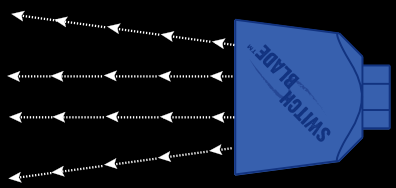
CUSTOMIZABLE STREAMS
Faster & Deeper Impingement

Trenching | Precision Digging
Starting Tool | Compact Soils



Static, **0-DEGREE** straight stream

SPRAY PATTERN



"[Switchblade] is pretty impressive. You have the option of turning it sideways... [to] keep a nice cutting action. We do a lot of trenching where it doesn't have to be very wide... [it's] perfect for those narrow channels."

Jesse Doffler
Goliath Hydro-Vac

QUICK FACTS

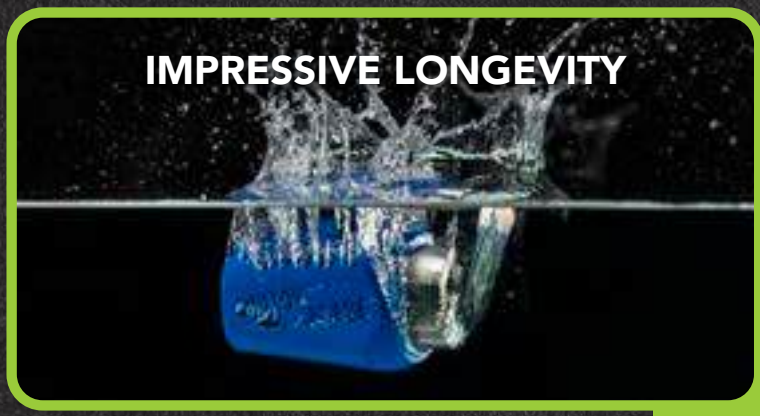
- Flow Rates (Pre-Configured): 2.0 – 14.0 GPM
  *Reference pill chart on Page 16 for more available options
- Inlet Pressure: 1,000 - 4,000 PSI
- Max Temp: 180°F (+82°C)
- Inlet Connection: 1/2" FNPT


ACE™ — 1 STREAM


DEUCE™ — 2 STREAMS


QUAD™ — 4 STREAMS

WATCH OUR SWITCHBLADE VIDEOS



WHY CHOOSE SWITCHBLADE?

- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Heavy-duty, non-conductive Hytrel coating protects nozzle components and users
- Greater force allows you to get the same impact as nozzles with higher GPM
- Multiple stream options, with tons of flow rate configurations





From the Ace's precise single stream and the Quad's efficient four streams to the perfect balance of both with the Deuce, the Switchblade's range of streams allow you to customize your nozzle to suit the specific needs of the job.



Individual, replaceable, color-coded nozzle pills – as well as plugs – allow you to change the water flow rate based on based on job and soil conditions.
See Page 15 for more info.



SWITCH BLADE™



CHOOSE YOUR PRE-CONFIGURED NOZZLE

Switchblade nozzles are pre-configured in the most commonly used flow rates across the industry.

NOZZLE SIZE	PART NUMBER	INCLUDED PILLS	FLOW RATE CHART						
			@1,000 PSI (69 Bar)	@1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)	@3,000 PSI (207 Bar)	@3,500 PSI (241 Bar)	@4,000 PSI (275 Bar)
SWITCHBLADE ACE NOZZLE KIT									
8.0	20022354	(1) #8.0 Pills	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022355	(1) #10.0 Pills	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	9.0 GPM (34.0 LPM)
12.0	20022356	(1) #12.0 Pills	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
SWITCHBLADE DEUCE NOZZLE KIT									
4.0	20022343	(2) #2.0 Pills	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)	4.0 GPM (15.1 LPM)
6.0	20022344	(2) #3.0 Pills	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.9 LPM)	5.2 GPM (19.8 LPM)	5.4 GPM (20.4 LPM)	6.0 GPM (22.7 LPM)
8.0	20022345	(2) #4.0 Pills	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022346	(2) #5.0 Pills	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	9.0 GPM (34.0 LPM)
12.0	20022347	(2) #6.0 Pills	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
SWITCHBLADE QUAD NOZZLE KIT									
4.0	20022291	(4) #1.0 Pills	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)	4.0 GPM (15.1 LPM)
6.0	20022294	(2) #2.0 Pills (2) #1.0 Pills	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.9 LPM)	5.2 GPM (19.8 LPM)	5.4 GPM (20.4 LPM)	6.0 GPM (22.7 LPM)
8.0	20022277	(4) #2.0 Pills	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
10.0	20022278	(2) #3.0 Pills (2) #2.0 Pills	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	10.0 GPM (38.0 LPM)
12.0	20022295	(4) #3.0 Pills	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
14.0	20022279	(2) #4.0 Pills (2) #3.0 Pills	7.0 GPM (26.4 LPM)	8.6 GPM (32.5 LPM)	9.9 GPM (37.4 LPM)	11.1 GPM (42.0 LPM)	12.1 GPM (45.8 LPM)	13.1 GPM (49.5 LPM)	14.0 GPM (52.9 LPM)

INTERCHANGE PILLS AND FLOW RATES



ACE DEUCE QUAD

Switchblade pills can be easily replaced in the field by using a nut screwdriver.

WANT EVEN MORE VERSATILITY?



Use flow plugs to block streams, enhancing the versatility of your Quad.

PART NUMBER	DESCRIPTION	COLOR	FLOW RATE (EACH PILL)						
			@1,000 PSI (69 Bar)	@1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)	@3,000 PSI (207 Bar)	@3,500 PSI (241 Bar)	@4,000 PSI (275 Bar)
20022319	1.0 Pill	Blue	0.5 GPM (1.8 GPM)	0.6 GPM (2.2 LPM)	0.7 GPM (2.6 GPM)	0.8 GPM (3.0 LPM)	0.9 GPM (3.4 LPM)	0.9 GPM (3.4 LPM)	1.0 GPM 3.7 LPM)
20022320	2.0 Pill	Yellow	1.0 GPM (3.7 LPM)	1.2 GPM (4.5 LPM)	1.4 GPM (5.2 LPM)	1.6 GPM (6.0 LPM)	1.7 GPM (6.4 LPM)	1.9 GPM (7.1 LPM)	2.0 GPM (7.5 LPM)
20022321	3.0 Pill	Green	1.5 GPM (5.7 LPM)	1.8 GPM (6.8 LPM)	2.1 GPM (7.9 LPM)	2.4 GPM (9.1 LPM)	2.6 GPM (9.8 LPM)	2.7 GPM (10.2 LPM)	3.0 GPM (11.3 LPM)
20022322	4.0 Pill	Orange	2.0 GPM (7.6 LPM)	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.6 GPM (13.6 LPM)	4.0 GPM (15.1 LPM)
20022323	5.0 Pill	Purple	2.5 GPM (9.5 LPM)	3.1 GPM (11.7 LPM)	3.5 GPM (13.2 LPM)	4.0 GPM (15.1 LPM)	4.3 GPM (16.2 LPM)	4.5 GPM (17.0 LPM)	5.0 GPM (18.9 LPM)
20022324	6.0 Pill	Red	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.9 LPM)	5.2 GPM (19.8 LPM)	5.4 GPM (20.4 LPM)	6.0 GPM (22.7 LPM)
20022325	8.0 Pill	Black	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)	8.0 GPM (30.2 LPM)
20022326	10.0 Pill	White	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)	10.0 GPM (38.0 LPM)
20022327	12.0 Pill	Pink	6.0 GPM (22.7 LPM)	7.3 GPM (22.4 LPM)	8.5 GPM (32.1 LPM)	9.5 GPM (35.9 LPM)	10.4 GPM (39.3 LPM)	10.7 GPM (40.5 LPM)	12.0 GPM (45.4 LPM)
10014279	SST Plug	-	-	-	-	-	-	-	

*All pills have a 1/8" NPT connection thread.



SEE SWITCHBLADE IN ACTION

MACHETE™

MAXIMIZE SPEED & PERFORMANCE

Prioritize Safety with Incredible Ergonomics

Bell Holing | Sloping | Trenching
Finishing Tool | Caliche / Hard Soils



SPRAY PATTERN



"This tip rocks. It's my go-to whether I'm into harsh ground or making my work look great with finishing touches... recommend it on every truck!"

Dave Temple, Owner / Operator
CDT Hydrovac Excavation

QUICK FACTS

- Flow Rates: 3.0 – 8.9 GPM
- Inlet Pressure: 1,000 – 3,200 PSI
- Nozzle Sizes: #6.0 – #10.0
- Max Temp: 180°F (+82°C)



Tungsten Carbide wear surfaces provide longer lifespan

Nylon cover protects users, utilities, and allows for instant in-field repair

Stainless steel housing protects against wear and tear

FIND A DEALER at hydraflexinc.com

WATCH OUR MACHETE VIDEOS









WHY CHOOSE MACHETE?

- Built specifically for challenging soil conditions where standard nozzles fall short
- Designed to minimize undermining risks
- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Greater power allows you to use smaller nozzle sizes while getting the same impact as nozzles with higher GPM
- Replacement covers and repair kits available for extended life

- Approved for use around sensitive underground utilities
  (Reference Best Practices & Safety Instruction on our website)
- Oscillating motion helps reduce undermining
- Requires less operator bending and movement

Combine the safety and rotation of the Ripsaw with the straight-line power of the Switchblade to offer a long, slicing stream that optimizes efficiency and reaches greater depths faster.

MACHETE™



KEY FEATURES

Replaceable Top Cover
Top and bottom cover unscrews into two pieces to easily repair

Urethane Stator
Provides a smooth rotational surface

Replaceable Bottom Cover



Tungsten Carbide Nozzle Tip and Seat
Materials proven to outlast ceramic nozzles

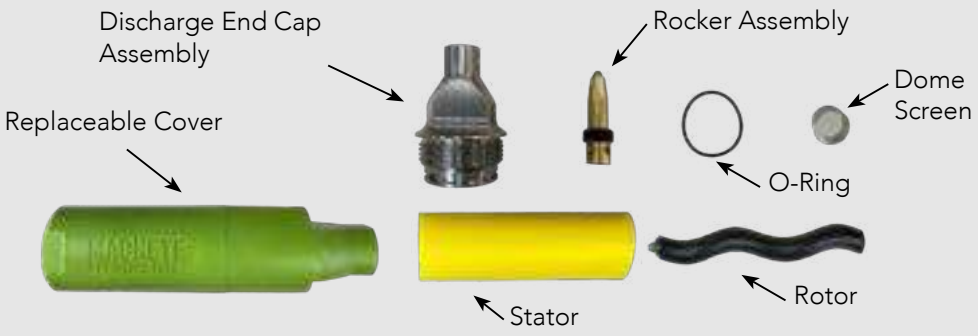
Inlet Connection
1/2" FNPT

Inlet Screen
Protects nozzle from contaminants



Repair kits are available to extend the life of the nozzle, watch repair video here.

REBUILD KIT



DOME INLET SCREENS

10 Pack



Part Number: 20019939

NOZZLE SIZE	NOZZLE PART NUMBER	REBUILD KIT PART NUMBERS	FLOW RATE CHART (GPM)					
			@1,000 PSI (70 Bar)	@1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)	@3,000 PSI (207 Bar)	@3,200 PSI (221 Bar)
6.0	20022427	20022454	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)	5.4 GPM (20.4 LPM)
8.0	20022428	20022455	4.0 GPM (15.1 LPM)	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.2 GPM (27.3 LPM)
10.0	20022429	20022456	5.0 GPM (18.9 LPM)	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	8.9 GPM (33.7 LPM)



WATCH VIDEO TO LEARN MORE ABOUT MACHETE

FIND A DEALER TO REQUEST A DEMO!



SEWER JETTING





REAPER®

REVOLUTION®
BY REAPER

Watch our Sewer Jetting video playlist!

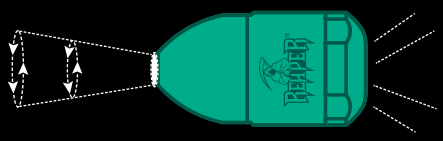
BSPP ADAPTABILITY AVAILABLE
SEE PG. 26

BLOCKAGE REMOVER

Fastest Cutter on the Market

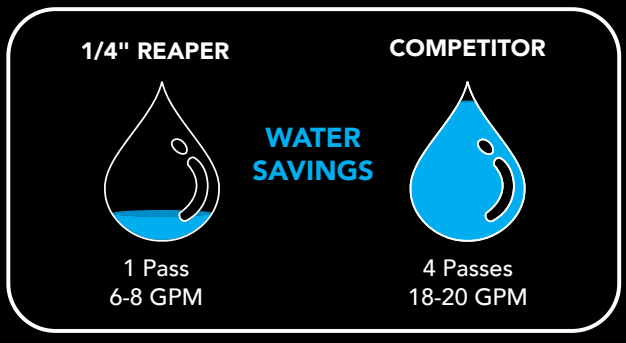
Cut Roots | Blockage Eliminator | FOG Removal
Paraffin Wax Removal | Break Down Wipes | Clear Calcite

SPRAY PATTERN



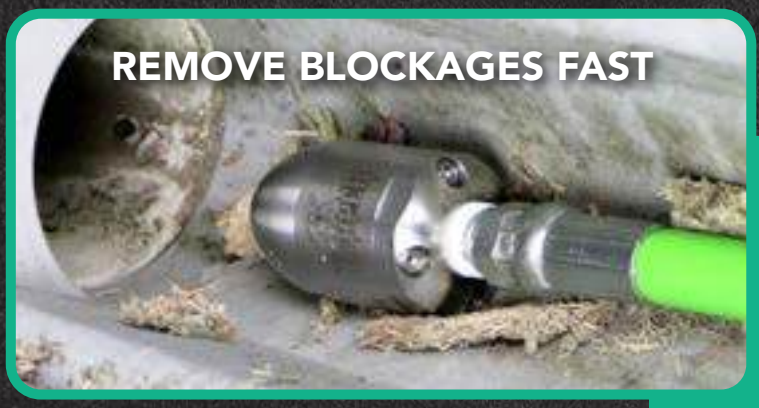
"The Reaper has been the best cutting nozzle we've ever seen."

Derek Galanis, Jetter Sales Team Member
HotJet USA





WATCH OUR REAPER VIDEOS



WHY CHOOSE REAPER?

- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Spray angles optimized for maximum pulling, thrusting, and cleaning power
- Greater force allows you to cut blockages faster and complete more jobs in a day
- Fully field repairable to resume operation in just 10 minutes





Clear and clean with the powerful rotating front stream that destroys blockages and cleans pipe walls while the back jets propel the nozzle forward and flush.

The 80 GPM 1" Reaper rear jets are proven to pull lines up to 1,200 feet!



Expertly designed to hit specific angles that shorten the time it takes to cut through roots and tough blockages and reach the full diameter of the pipe.

REAPER®

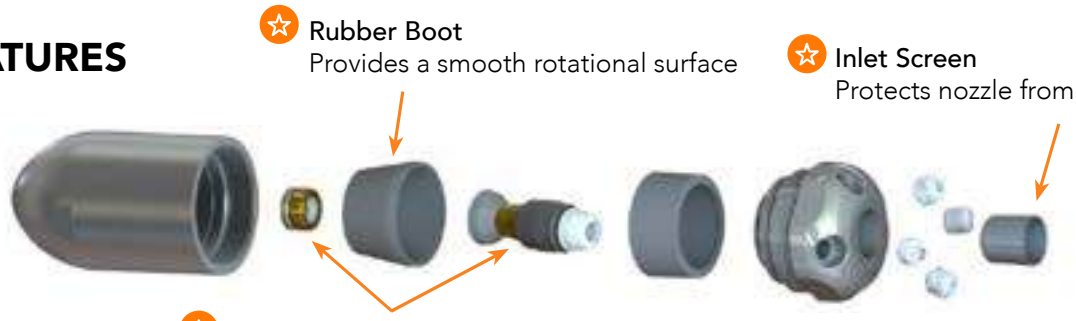


PRO TIP

Clear a blockage in two easy steps:

1. Feed the nozzle up to the blockage.
2. Pull back the hose (6-12" depending on pipe size), then push the nozzle forward into the blockage. This maximizes power and efficiency by ensuring the rotating stream reaches the pipe's full diameter to cut the blockage at its outermost point.

KEY FEATURES



QUICK FACTS



Flow Rate: 3.7-9.0 GPM
Maximum PSI: 5,000 PSI



Flow Rate: 3.7-12.0 GPM
Maximum PSI: 4,000 PSI



Flow Rate: 7.3-24.0 GPM
Maximum PSI: 4,000 PSI



Flow Rate: 18.7-46.1 GPM
Maximum PSI: 3,000 PSI



Flow Rate: 26.9-69.3 GPM
Maximum PSI: 3,000 PSI



Repair kits get you back up and running in about 10 minutes without leaving the job site.

NO FLUID MAINTENANCE NEEDED!

BSPP ADAPTERS

(MPT-TO-BSPP)

Part Numbers:

3/8" : 20026196

1/2" : 20026197



1" : 20026198

1/4" and 3/8" Reaper can be purchased as BSPP nozzles (see chart below). 3/4" Reaper does not have BSPP adaptability.

REAR JET REPAIR KIT

3/8" & 1/2"



3/4" & 1"



*Not Available for the 1/4" Reaper

DOME INLET SCREENS

Part Numbers:

1/4" : 20022304

3/8" : 20022296

1/2" : 20022297

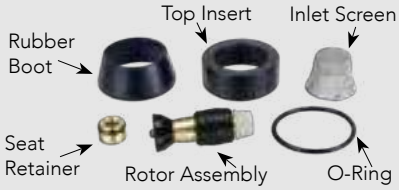
3/4" : 20024703

1" : 20022301

10 Pack



ROTOR REPAIR KIT



1/4" Repair Kit does not include top insert, boot is plastic, and rotor assembly looks slightly different.

NOZZLE SIZE	FNPT NOZZLE PART NUMBER	BSPP NOZZLE PART NUMBER	ROTOR REPAIR KIT PART NUMBER	REAR JET REPAIR KIT	FLOW RATE CHART @1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)	@3,000 PSI (207 Bar)	@3,500 PSI (241 Bar)	@4,000 PSI (276 Bar)	@5,000 PSI (344 Bar)
1/4" NOZZLE - IDEAL FOR 2" - 4" OR 50MM - 100MM PIPES											
6.0	20022461	20022463	20022303	--	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)	5.6 GPM (21.2 LPM)	6.0 GPM (22.7 LPM)	6.7 GPM (25.4 LPM)
8.0	20022462	20022464	20022303	--	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.5 GPM (28.4 LPM)	8.0 GPM (30.2 LPM)	9.0 GPM (34.1 LPM)
3/8" NOZZLE - IDEAL FOR 3"- 6" OR 90mm - 180mm PIPES											
6.0	20022416	20022440	20022403	20022409	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)	5.6 GPM (21.2 LPM)	6.0 GPM (22.7 LPM)	--
9.0	20022417	20022441	20022404	20022410	5.5 GPM (20.8 LPM)	6.4 GPM (24.2 LPM)	7.1 GPM (26.9 LPM)	7.8 GPM (29.5 LPM)	8.4 GPM (31.8 LPM)	9.0 GPM (34.1 LPM)	--
12.0	20022418	20022442	20022405	20022411	7.3 GPM (27.6 LPM)	8.5 GPM (32.2 LPM)	9.5 GPM (36.0 LPM)	10.4 GPM (39.4 LPM)	11.2 GPM (42.4 LPM)	12.0 GPM (45.4 LPM)	--
1/2" NOZZLE - IDEAL FOR 4" - 8" OR 110mm - 225mm PIPES											
12.0	20022419	--	20022406	20022411	7.3 GPM (27.6 LPM)	8.5 GPM (32.2 LPM)	9.5 GPM (36.0 LPM)	10.4 GPM (39.4 LPM)	11.2 GPM (42.4 LPM)	12.0 GPM (45.4 LPM)	--
15.0	20022420	--	20022407	20022412	9.2 GPM (34.8 LPM)	10.6 GPM (40.1 LPM)	11.9 GPM (45.0 LPM)	13.0 GPM (49.2 LPM)	14.0 GPM (53.0 LPM)	15.0 GPM (56.8 LPM)	--
18.0	20022421	--	20022408	20022413	11.0 GPM (41.6 LPM)	12.7 GPM (48.1 LPM)	14.2 GPM (53.8 LPM)	15.6 GPM (59.1 LPM)	16.8 GPM (63.6 LPM)	18.0 GPM (68.1 LPM)	--
24.0	20022423	--	20022408	20022415	14.7 GPM (55.6 LPM)	17.0 GPM (64.4 LPM)	19.0 GPM (71.9 LPM)	20.8 GPM (78.7 LPM)	22.4 GPM (84.8 LPM)	24.0 GPM (90.8 LPM)	--
3/4" NOZZLE - IDEAL FOR 4" - 10" OR 101mm - 254mm PIPES											
30.0	10019338	--	20024158	10019335	18.7 GPM (70.8 LPM)	21.7 GPM (82.5 LPM)	24.1 GPM (91.6 LPM)	26.5 GPM (100.7 LPM)	--	--	--
40.0	10019339	--	20024158	10019336	26.0 GPM (98.8 LPM)	30.2 GPM (114.8 LPM)	33.6 GPM (127.7 LPM)	37.0 GPM (140.6 LPM)	--	--	--
50.0	10019340	--	20024158	10019337	32.4 GPM (123.9 LPM)	37.6 GPM (142.9 LPM)	41.9 GPM (159.2 LPM)	46.1 GPM (175.2 LPM)	--	--	--
1" NOZZLE - IDEAL FOR 6" - 18" OR 180mm - 460mm PIPES											
40.0	20024151	--	20024158*	20024159	26.9 GPM (102.0 LPM)	31.1 GPM (117.8 LPM)	34.8 GPM (131.7 LPM)	38.1 GPM (144.2 LPM)	--	--	--
60.0	20024152	--	20024158*	20024160	39.2 GPM (148.4 LPM)	45.3 GPM (171.3 LPM)	50.6 GPM (191.5 LPM)	55.4 GPM (209.8LPM)	--	--	--
80.0	20024153	--	20024158*	20024161	49.0 GPM (185.4 LPM)	56.6 GPM (214.1 LPM)	63.2 GPM (239.4 LPM)	69.3 GPM (262.3 LPM)	--	--	--

*If you purchased your 1" Reaper prior to March 2024, use Rotor Repair Kit (40.0, 60.0, and 80.0) part number: 20022408

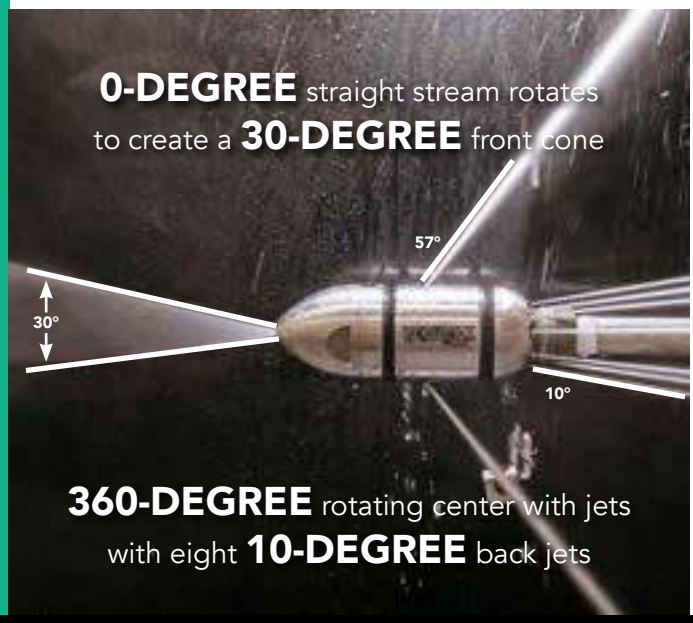
AVAILABLE THROUGH QUALIFIED DEALERS

REVOLUTION® BY REAPER

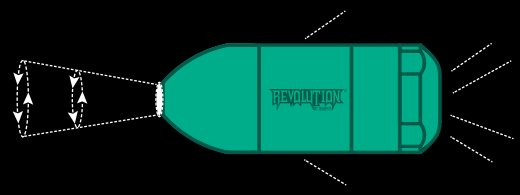
CUT, CLEAR, AND CLEAN

Mainline Sewer Solution

Cut Roots | Blockage Eliminator | FOG Removal



SPRAY PATTERN

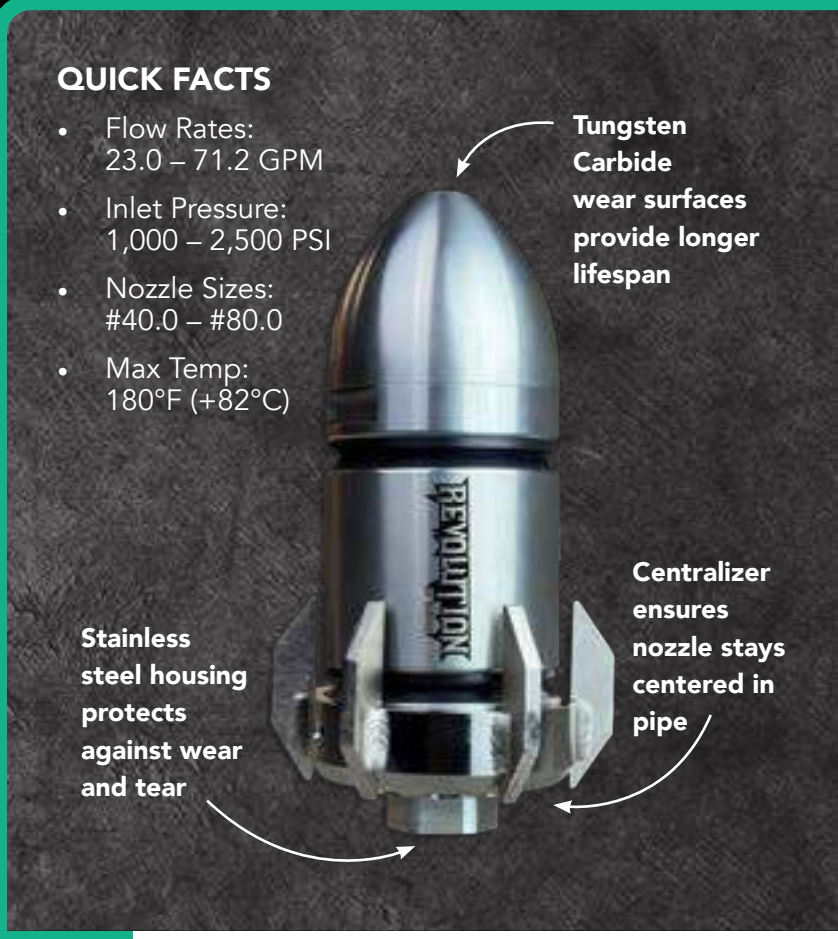


"It cut a two-day job to one day. Lines that take three passes only took one pass."

David Feuerstacke
JG Environmental

QUICK FACTS

- Flow Rates: 23.0 – 71.2 GPM
- Inlet Pressure: 1,000 – 2,500 PSI
- Nozzle Sizes: #40.0 – #80.0
- Max Temp: 180°F (+82°C)



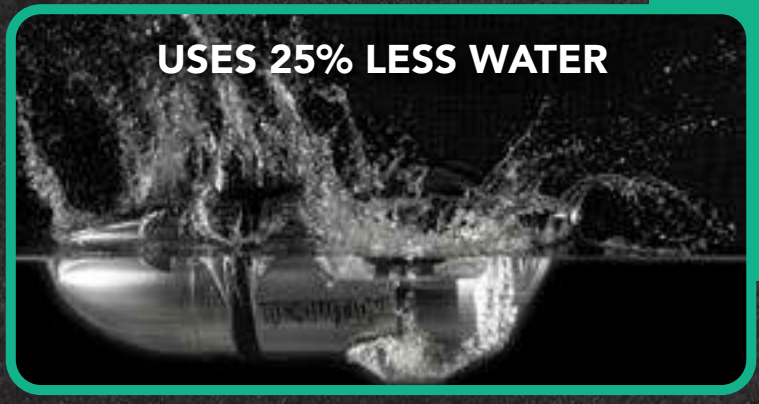
FIND A QUALIFIED REVOLUTION DEALER at hydraflexinc.com

WATCH OUR REVOLUTION VIDEOS



WHY CHOOSE REVOLUTION?

- Greater force allows you to cut through blockages faster and clear debris in fewer passes
- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Spray angles optimized for maximum pulling, thrusting, and cleaning power
- Easily shop repairable to extend the life of the nozzle, no fluid maintenance needed





Cut, clear, and clean all-in-one! The front jet cuts through blockages, the rear jets flush debris and propel the nozzle forward, while the dual jets on the 360-degree rotating center work to clean and de-scale pipe walls.



The Revolution was designed with the Reaper's cutting power. It's spray angles are engineered to quickly eliminate the toughest blockages.

AVAILABLE THROUGH QUALIFIED DEALERS

REVOLUTION® BY REAPER



KEY FEATURES

Rotor
Cuts and removes blockages

Bearing
Self-lubricating and continuously removes debris

Centralizer
Ensures nozzle stays centered within the pipe



Inlet Connection
1/2" FNPT

Cleaning Sub-Head
Dual laminar jets work to remove and clear debris

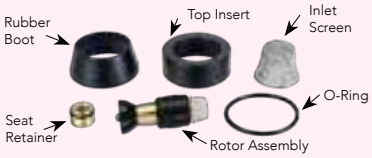
Magnet
Used to optimize controlled nozzle rotation

Rear Jets
8 (10-degree) back jets provide greater thrust power

FIND A QUALIFIED DEALER TO REQUEST A DEMO!

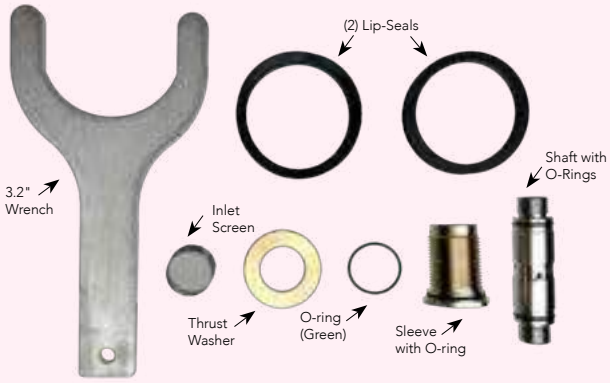
FRONT ROTOR REPAIR KIT

Part Number: 20022458



OVERHAUL KIT

Part Number: 20022306



Overhaul kits are available to extend the nozzle's life. Scan to watch our how-to video.

CENTRALIZER KIT

Part Number: 20022310



FRONT ROTOR BLOCK KIT

Part Number: 20022311



REAR JET REPAIR KIT

Part Numbers:

#40 : 20022477
#60 : 20022478
#80 : 20022479



DOME INLET SCREENS

Part Number: 20022301



10 Pack

SIDE JET REBUILD

Part Number: 20022307



BSPP ADAPTERS

(MPT-TO-BSPP)

Part Number:

1": 20026198



WRENCH KIT

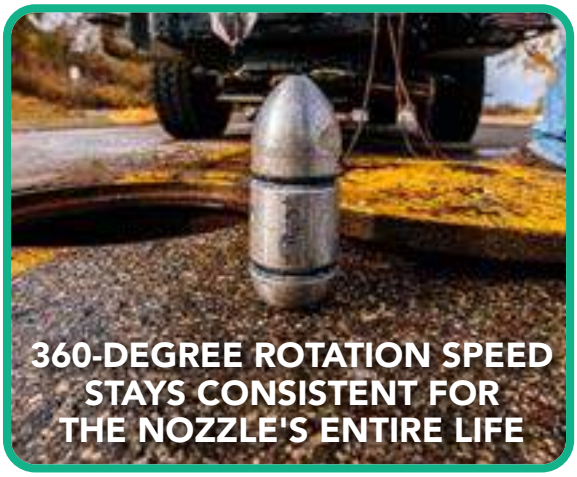
Part Number: 20022312



NOZZLE SIZE	1" NPT NOZZLE PART NUMBER	FLOW RATE CHART			
		@1,000 PSI (69 Bar)	@1,500 PSI (103 Bar)	@2,000 PSI (138 Bar)	@2,500 PSI (172 Bar)
40.0	20022458	23.0 GPM (87.1 LPM)	28.2 GPM (106.7 LPM)	32.5 GPM (123.0 LPM)	36.4 GPM (137.8 LPM)
60.0	20022459	33.0 GPM (124.9 LPM)	40.4 GPM (152.9 LPM)	46.7 GPM (176.8 LPM)	52.2 GPM (197.6 LPM)
80.0	20022460	45.0 GPM (170.3 LPM)	55.1 GPM (208.6 LPM)	63.0 GPM (238.5 LPM)	71.2 GPM (269.5 LPM)



WATCH TO LEARN MORE



INDUSTRIAL CLEANING





AQUA ROCKET™

MARKSMAN™

Watch our Industrial Cleaning video playlist!

AQUA ROCKET™

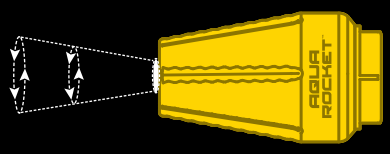
DO-IT-ALL CLEANING TOOL
Tackle Any Challenge with Efficiency

Production Facilities | Food Processing Facilities
Heavy Equipment | Car Wash Clean-Ups
Environmental Clean-Ups | Concrete | Livestock Barns
Graffiti Removal | Surface Prep | And so much more!



0-DEGREE straight stream rotates to create a **22- or 24-DEGREE** cone

SPRAY PATTERN



"After switching... to Aqua-Rocket, our cleaning processes overall completion time dropped by more than 50%. This is huge in our industry... it enables us to repurpose more than 8 hours for other tasks."

Chadwick Kogelschatz,
Continuous Improvement Manager
Roskam Baking Company

QUICK FACTS

- Flow Rates: 0.9 – 11.2 GPM
- Inlet Pressure: 750 – 5,600 PSI
- Nozzle Sizes: #2.0 – #10.0

High-temperature, drop-resistant rubber cover protects nozzle

Tungsten Carbide wear surfaces provide longer lifespan



AQUA ROCKET™ PRO AQUA ROCKET

WATCH OUR AQUA-ROCKET VIDEOS

CLEAN SURFACES 42% FASTER



TACKLE MORE JOBS IN A DAY



WHY CHOOSE AQUA-ROCKET?

- Clean surfaces faster and complete more jobs in a day
- Longer lifespan than ceramic nozzles
- Premium stainless steel housing and tungsten carbide wear surfaces increase durability and longevity
- Cleaning power allows you to use smaller nozzle sizes while getting the same impact as nozzles with higher GPM
- Drop-resistant cover protects nozzle and lengthens life
- Heat-resistant to offer more versatility on jobs
- Repair kits available for extended life

TAKE ON THE TOUGHEST TASKS



This powerful cleaning nozzle comes in two options to meet your needs.

Aqua-Rocket is designed for smaller equipment and is available at a lower price point.

Aqua-Rocket Pro is designed for higher pressure equipment and tackles more demanding tasks.

LAST 5X TIMES LONGER



Built with premium materials that last 5X longer than other nozzles to give you a better return on your investment.

AQUA ROCKET™



PRO TIP

Use the Aqua-Rocket in any direction! Thanks to its tungsten carbide nozzle tip, the Aqua-Rocket can start and stop both vertically and horizontally.

KEY FEATURES

Protective Rubber Cover
Extra protection from impact

Tungsten Carbide Nozzle Tip and Seat
Materials proven to outlast brass nozzles

Brass Boot
Smooth rotational surface for consistent nozzle RPM

Inlet Connection
1/4" FNPT

Inlet Screen
Protects nozzle from contaminants



HOW TO CHOOSE?



AQUA ROCKET™

Flow Rate:
0.9 – 5.2 GPM
PSI Rate:
750 – 3,600 PSI
Maximum Temperature:
150-Degrees

Light – Medium Pressure Washing



AQUA ROCKET™ PRO

Flow Rate:
1.8 –11.2 GPM
PSI Rate:
1,500 – 5,600 PSI
Maximum Temperature:
212-Degrees

Heavy – Extreme Pressure Washing

DOME INLET SCREENS

10 Pack



Part Number: 20019939

REPAIR KIT



AQUA-ROCKET SELECTION CHART

NOZZLE SIZE	NOZZLE PART NUMBER	REPAIR KIT PART NUMBER	FLOW RATE CHART (GPM)					
			@ 750 PSI	@ 1,000 PSI	@ 1,500 PSI	@ 2,000 PSI	@ 2,500 PSI	@ 3,000 PSI
2.0	20021340	20021357	0.9 GPM (3.4 LPM)	1.0 GPM (3.8 LPM)	1.2 GPM (4.5 LPM)	1.4 GPM (5.3 LPM)	1.6 GPM (6.1 LPM)	1.7 GPM (6.4 LPM)
3.0	20021341	20021358	1.3 GPM (4.9 LPM)	1.5 GPM (5.7 LPM)	1.8 GPM (6.8 LPM)	2.1 GPM (7.9 LPM)	2.4 GPM (9.1 LPM)	2.6 GPM (9.8 LPM)
3.5	20021342	20021359	1.5 GPM (5.7 LPM)	1.8 GPM (6.8 LPM)	2.1 GPM (7.9 LPM)	2.5 GPM (9.5 LPM)	2.8 GPM (10.6 LPM)	3.0 GPM (11.4 LPM)
4.0	20021343	20021360	1.7 GPM (6.4 LPM)	2.0 GPM (7.6 LPM)	2.5 GPM (9.5 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)
4.5	20021344	20021361	1.9 GPM (7.2 LMP)	2.3 GPM (8.7 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.6 GPM (13.6 LPM)	3.9 GPM (14.8 LPM)
5.0	20021345	20021362	2.1 GPM (7.9 LPM)	2.5 GPM (9.5 LPM)	3.1 GPM (11.7 LPM)	3.5 GPM (13.2 LPM)	4.4 GPM (16.7 LPM)	4.3 GPM (16.3 LPM)
5.5	20021346	20021363	2.3 GPM (8.7 LPM)	2.8 GPM (10.6 LPM)	3.4 GPM (12.9 LPM)	3.9 GPM (14.8 LPM)	4.4 GPM (16.7 LPM)	4.8 GPM (18.2 LPM)
6.0	20021347	20021365	2.6 GPM (9.8 LPM)	3.0 GPM (11.4 LPM)	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)

AQUA-ROCKET PRO SELECTION CHART

NOZZLE SIZE	NOZZLE PART NUMBER	REPAIR KIT PART NUMBER	FLOW RATE CHART (GPM)						
			@ 1,500 PSI	@ 2,000 PSI	@ 2,500 PSI	@ 3,000 PSI	@ 3,500 PSI	@ 4,000 PSI	@ 5,000 PSI
3.0	20021348	20021366	1.8 GPM (6.8 LPM)	2.1 GPM (7.9 LPM)	2.4 GPM (9.1 LPM)	2.6 GPM (9.8 LPM)	2.8 GPM (10.6 LPM)	3.0 GPM (11.4 LPM)	3.4 GPM (12.9 LPM)
3.5	20021349	20021367	2.1 GPM (7.9 LPM)	2.5 GPM (9.5 LPM)	2.8 GPM (10.6 LPM)	3.0 GPM (11.4 LPM)	3.3 GPM (12.5 LPM)	3.5 GPM (13.2 LPM)	3.9 GPM (14.8 LPM)
4.0	20021350	20021368	2.4 GPM (9.1 LPM)	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.5 GPM (13.2 LPM)	3.7 GPM (14.0 LPM)	4.0 GPM (15.1 LPM)	4.5 GPM (17.0 GPM)
4.5	20021351	20021369	2.8 GPM (10.6 LPM)	3.2 GPM (12.1 LPM)	3.6 GPM (13.6 LPM)	3.9 GPM (14.8 LPM)	4.2 GPM (15.9 LPM)	4.5 GPM (17.0 GPM)	5.0 GPM (18.9 LPM)
5.0	20021352	20021370	3.1 GPM (11.7 LPM)	3.5 GPM (13.2 LPM)	4.0 GPM (15.1 LPM)	4.3 GPM (16.3 LPM)	4.7 GPM (17.8 LPM)	5.0 GPM (18.9 LPM)	5.6 GPM (21.2 LPM)
5.5	20021353	20021371	3.4 GPM (12.9 LPM)	3.9 GPM (14.8 LPM)	4.3 GPM (16.3 LPM)	4.8 GPM (18.2 LPM)	5.1 GPM (19.3 LPM)	5.5 GPM (20.8 LPM)	6.2 GPM (23.5 LPM)
6.0	20021354	20021372	3.7 GPM (14.0 LPM)	4.2 GPM (15.9 LPM)	4.7 GPM (17.8 LPM)	5.2 GPM (19.7 LPM)	5.6 GPM (21.2 LPM)	6.0 GPM (22.7 LPM)	6.7 GPM (25.4 LPM)
8.0	20021355	20021373	4.9 GPM (18.5 LPM)	5.7 GPM (21.6 LPM)	6.3 GPM (23.8 LPM)	6.9 GPM (26.1 LPM)	7.5 GPM (28.4 LPM)	8.0 GPM (30.3 LPM)	8.9 GPM (33.7 LPM)
10.0	20021356	20021374	6.1 GPM (23.1 LPM)	7.1 GPM (26.9 LPM)	7.9 GPM (29.9 LPM)	8.7 GPM (32.9 LPM)	9.4 GPM (35.6 LPM)	10.0 GPM (37.9 LPM)	11.2 GPM (42.4 LPM)

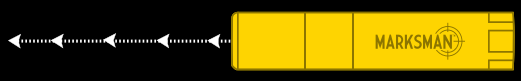
MARKSMAN™

LONG-DISTANCE PRECISION
Offers Incredible Operator Safety

Lift Stations | Manholes | Long-Distance Cleaning
Tanks | Sweeper, Garbage, & Vac Trucks



SPRAY PATTERN



"If their goal is to save some time, save some energy, and have a little less risk, I think the Marksman would be a good investment."

Phillip London,
Wastewater Collection Laborer
Columbus City Utilities

QUICK FACTS

- Flow Rates: 4.8 – 17.4 GPM
- Inlet Pressure: 500 – 2,500 PSI
- Nozzle Sizes: #12.0 – #20.0
- Max Temp: 180°F (+82°C)



WATCH OUR MARKSMAN VIDEOS





WHY CHOOSE MARKSMAN?

- Precise, accurate stream cleans at long-distances and in hard-to-reach places
- Cleans accurately and effectively up to 20 feet away
- No need for multiple lances to get more distance or lower into confined spaces
- Low-flow design reduces water use and speeds up cleaning



Clean solid and grease build-ups from long distances with the accurate and controlled stream.



Ensures safety while cleaning lift stations and manholes by keeping users out of confined spaces and away from hazardous substances.

MARKSMAN™

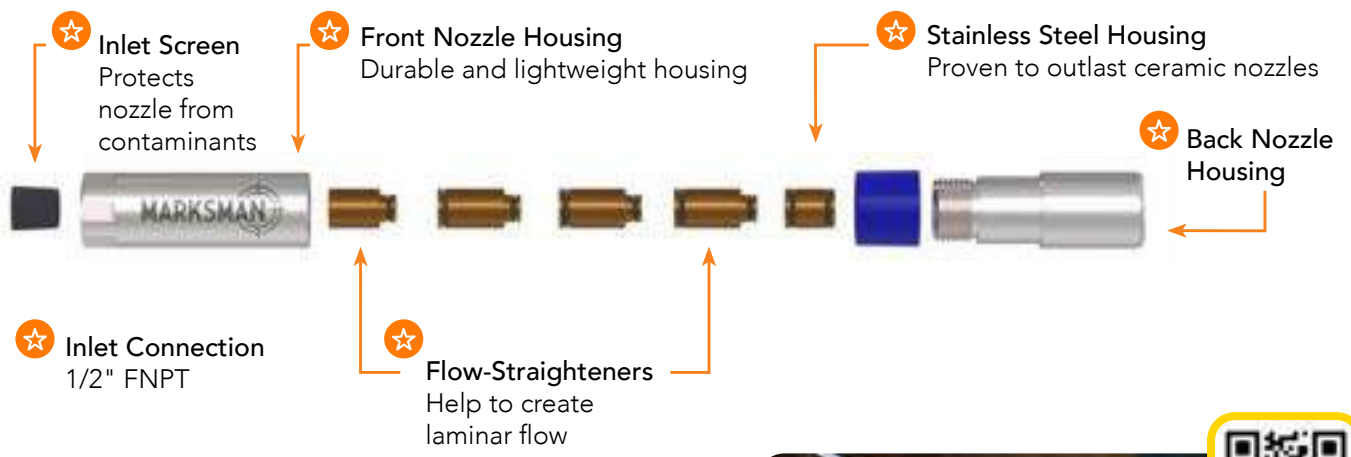


PRO TIP

Recommend for use with a 6-foot minimum lance equipped with dead-man switch.

Only use threaded connections (rather than quick-connects) to ensure water stream remains stable and intact for long-distance cleaning.

KEY FEATURES





CHECK OUT THIS VIDEO TO LEARN MORE ABOUT THE MARKSMAN

CHECK OUT OUR VIDEO LIBRARY!

DOME INLET SCREENS

10 pack



Part Number: 20022297



OUTFIT YOUR RIG

Hydro-Excavation or Municipal-focused demo boxes are available to fully outfit your rig. Email us for more info.

hello@hydraflexinc.com

NOZZLE SIZE	NOZZLE PART NUMBER	FLOW RATE CHART				
		@ 500 PSI (34 bar)	@ 1,000 PSI (70 Bar)	@ 1,500 PSI (103 Bar)	@ 2,000 PSI (138 Bar)	@ 2,500 PSI (172 Bar)
12.0	20022431	4.8 GPM (18.2 LPM)	6.8 GPM (25.7 LPM)	8.3 GPM (31.4 LPM)	9.6 GPM (36.2 LPM)	10.8 GPM (40.9 LPM)
15.0	20022432	5.8 GPM (22.0 LPM)	8.2 GPM (31.0 LPM)	10.0 GPM (37.9 LPM)	11.6 GPM (43.9 LPM)	13.0 GPM (49.2 LPM)
20.0	20022433	7.8 GPM (29.5 LPM)	11.0 GPM (41.6 LPM)	13.5 GPM (51.1 LPM)	15.6 GPM (59.1 LPM)	17.4 GPM (65.9 LPM)



SAFETY GUIDELINES

The use of high-pressure equipment can present significant risks if proper precautions are not exercised prior to and during operation. Adhere to the following instructions and industry best practices to help prevent the risk of serious injury and/or death:

- **Risk Assessment:** Installers/operators are responsible for conducting job-specific risk assessment. Risk assessments need to consider material or substances hazards such as aerosols, biological and microbiological (viral or bacterial agents), combustible materials, dusts, explosion, fibers, flammable substances, fluids, fumes, gases, mists, and oxidizing agents.
- **Pressure Limits:** Do not exceed the maximum operating pressure (reference product pages for maximum operating pressure).
- **Access Control:** Untrained individuals must stay away from the work area.
- **Equipment Inspection:** Examine equipment for signs of deterioration, damage, or incorrect assembly. Do not operate damaged equipment until repaired or replaced.
- **Connections:** Ensure all threaded connections are secure and leak-free.
- **De-energize:** Always de-energize the system before servicing or replacing parts. Failure to do so could lead to severe injury and/or death.

SITE SAFETY CHECK

- Conduct a job-specific risk assessment and follow site-specific safety procedures.
- Define work zones and post warning signs as needed.
- Remove unnecessary objects from the work area (i.e., loose parts, hoses, tools, etc.).
- Use appropriate Personal Protective Equipment (PPE).
- Ensure all air and water hoses are properly connected and secure.
- Inspect high-pressure threaded connections prior to use and ensure they are secure (do not use damaged equipment). Only high-pressure hoses designed for high-pressure applications should be utilized.
- Do not connect, disconnect, or tighten components (i.e. hoses, accessories, adapters, ect.) with the pump running.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

PPE requirements depend on water pressure and application. Perform a job-specific risk assessment to determine PPE needs. For more information, refer to industry best practices.

Typical PPE may include:

- Eye protection (glasses, goggles, visor)
- Foot protection (steel-toe, waterproof, non-slip boots)
- Hand protection (gloves)
- Ear protection (ear plugs or muffs for a minimum of 85 dBA)
- Head protection (hard hat with face and ear protection)
- Body protection (multi-layer waterproof clothing, high-vis clothing)
- Hose protection (hose shroud)
- Respiratory protection (depending on application)

Hydra-Flex designs nozzles with safety and potential hazards in mind, incorporating safety mechanisms where feasible to mitigate risks. However, the company is not responsible for any misuse of the equipment.





DID YOU KNOW?

All Hydra-Flex nozzles come with a 90-day warranty.

90-DAY WARRANTY PROGRAM

OVERVIEW

Hydra-Flex products are quality tested prior to shipping to ensure proper operation, rotation, and spray pattern. All products carry a 90-day warranty, covering manufacturing defects, that starts the day the product is shipped.

POLICY

Hydra-Flex products are warrantied to be free from defects in materials and workmanship under normal use and service. "Normal use and service" means operated within recommended pressures, temperatures, and only handling compatible fluids. This warranty does not apply to any accessory repaired or altered to affect the performance or reliability of the product.

The warranty does not apply to:

- Freight damage
- Freezing damage
- Damage caused by parts or accessories not obtained from or approved by Hydra-Flex
- Damage from misuse and/or misapplication
- Damage due to poor water quality
- Normal wear of moving parts, components affected by moving parts, or surfaces meant to wear

The warranty period is 90 days from the date the product is shipped from Hydra-Flex. The manufacturer's warranty liability is limited to the repair or replacement of that product, to be determined by Hydra-Flex, if our investigation determines the product was defective when shipped. This warranty is in lieu of all other warranties, expressed or implied, including any warranty of merchantability and/or any other obligations or liabilities on the part of Hydra-Flex.

To inquire about the policy or to file a request for investigation, please email us at hello@hydraflexinc.com or contact your direct sales representative to determine next steps. A return merchandise authorization number must be granted for units to be returned for replacement or repair.

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