

LATERAL SOLUTIONS



REHABILITATE, REPLACE, REINSTATE

LATERAL SOLUTIONS



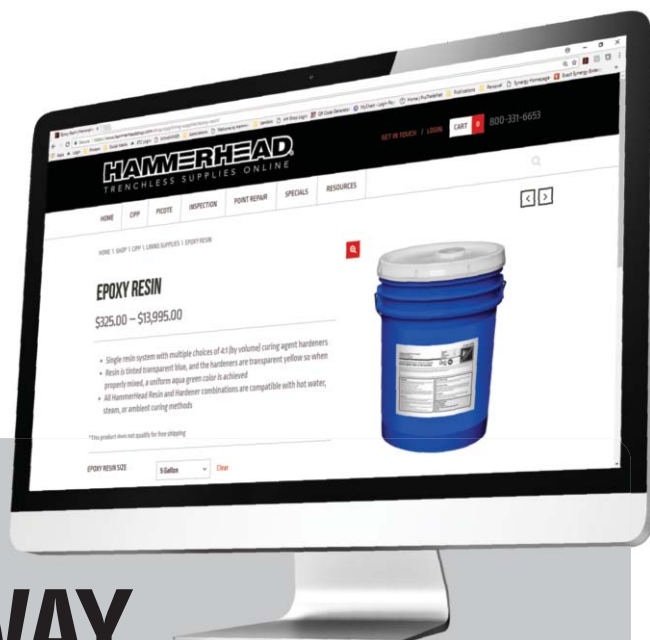
CATALOG
VOLUME 4

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Introducing the new HammerHead® MasterCard® from Bank of the West, the most convenient way to pay for trenchless equipment, parts and accessories.

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HammerHead Financial Services can provide you with the best financing solutions available and can offer a financing solution that fits your needs. Choose from skip payments, seasonal payment programs, no payments/interest for 90 days or six month 0% financing with fixed payments and many others. Contact your HammerHead representative for details.**

*Free shipping applies only to online orders paid using a credit card and shipped to an address in the lower 48 states. Offer excludes items requiring special handling. Flat rate shipping is applied to the following product categories: liners, resins, calibration tubes, pull tape, hot boxes, Millers, Camera Systems, Wet Out Tables and other select items that may require special handling. Other conditions may apply. Contact HammerHead for more information. Some exclusions apply. **Customer participation is subject to credit qualification and approval by Bank of the West. Not all applicants will qualify.



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HAMMERHEAD® EPOXY RESIN SYSTEM

PROTECT THE ENVIRONMENT, USE STYRENE FREE RESINS.

We only sell top of the line, 100% solids, epoxy resin blends to ensure the highest quality installations while still protecting the environment.

Epoxy resins are inherently free of odors, HAP, and volatile VOC emissions. They also provide superior adhesion and are virtually shrink free compared to styrene making them the best choice for CIPP applications.

HammerHead epoxy resins have a proven track record in conjunction with felt, woven or fiberglass liner materials.



HAMMERHEAD EPOXY RESIN SYSTEM

HammerHead Epoxy is a single resin system with multiple choices of 4:1 (by volume) curing agent hardeners. HammerHead Epoxy resin is tinted transparent blue, and the hardeners are transparent yellow. When the resins are properly mixed, a uniform aqua green color is achieved.

Description	Net Weight	Part #
5 Gallon Bucket	45 lbs	922-5500
55 Gallon Drum	495 lbs	922-5510
275 Gallon Tote	2,475 lbs	922-5520

STANDARD HARDENER

With a working time of 30–35 minutes (@77° F), our standard hardener provides a good balance between working time and set time (1–3 hours with heat curing). (4:1 resin to hardener by volume).

Description	Net Weight	Part #
5 Gallon Bucket	40 lbs	922-5501
55 Gallon Drum	440 lbs	922-5511
275 Gallon Tote	2,200 lbs	922-5521



HAMMERHEAD® EPOXY RESIN SYSTEM

SUMMER HARDENER

A longer working time (50–60 minutes at (@77° F) is useful when used in hot weather or for long or large diameter pipe runs. Also provides a higher temperature resistance which allows it to be used for projects in high temperature applications (up to 240°F). Set time of 1.5–3 hours with heat curing (4:1 resin to hardener by volume).

Description	Net Weight	Part #
5 Gallon Bucket	40 lbs	922-5503
55 Gallon Drum	440 lbs	922-5512
275 Gallon Tote	2,200 lbs	922-5522

WINTER HARDENER

This blend provides 12–15 minute working time, useful for winter and short run applications requiring a fast return to service. (4:1 resin to hardener by volume).

5 Gallon Bucket	40 lbs	922-5502
55 Gallon Drum	440 lbs	922-5513
275 Gallon Tote	2,200 lbs	922-5523

EXTENDED HARDENER

The extended blend is formulated for longer working times useful in long runs, larger diameter pipe or higher temperature working conditions. Working time is extended to three hours (@77° F) while still keeping a fast set time range of one to four hours with hot water or steam cure. (100:30 resin to hardener).

5 Gallon Bucket	40 lbs	922-5531
55 Gallon Drum	495 lbs	922-5533
275 Gallon Tote	2,200 lbs	922-5535

QUICK & ACCURATE RESIN MIXTURES

Eliminate confusing mix charts, mixing errors and waste. The Rehabilitation Systems APP from HammerHead® Trenchless provides you quick access to resin mix calculations and cure times based on your specific project specifications.

Download the free mobile APP today!

AMBIENT EPOXY SYSTEM

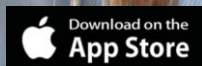
Our ambient resin system is specially designed for ambient curing, even at temperatures as low as 35° F. It has a consistent working time of 25–30 minutes (@77° F) with a set time of only 1.5–2 hours. (2:1 resin to hardener by volume).

AMBIENT EPOXY

Description	Net Weight	Part #
5 Gallon Bucket	45 lbs	922-5504
55 Gallon Drum	500 lbs	922-5514
275 Gallon Tote	2,250 lbs	922-5524

AMBIENT HARDENERS

5 Gallon Bucket	45 lbs	922-5505
55 Gallon Drum	500 lbs	922-5515
275 Gallon Tote	2,250 lbs	922-5525



LINERS, PRE-LINER & CALIBRATION TUBES

SCRIM LINER

Designed for accuracy, this scrim reinforced liner minimizes longitudinal stretch and assures accurate inversion length. Scrim liner is a cost effective solution for ambient, hot water and steam curing applications without bends or diameter transitions. Custom sewn transitions are also available.

Description	Quantity	Part #
3.00" Scrim Liner (Roll)	328' (100 m)	922-8300
4.00" Scrim Liner (Roll)	328' (100 m)	922-8204
5.00" Scrim Liner (Roll)	328' (100 m)	922-8205
6.00" Scrim Liner (Roll)	328' (100 m)	922-8206
8.00" Scrim Liner (Roll)	328' (100 m)	922-8208
10.00" Scrim Liner (Roll)	328' (100 m)	922-8210
12.00" Scrim Liner (Roll)	328' (100 m)	922-8212
4-6.00", 50X35 Transition (3.00')	50' X 35'	922-5377
4-6.00", 50x50 Transition (3.00')	50' X 50'	922-5378
4-6.00", 75x75 Transition (3.00')	75' X 75'	922-5381
4-6.00", 100x50 Transition (3.00')	100' X 50'	922-5380
4-6.00", 100x100 Transition (3.00')	100' X 100'	922-5379

FLEX TRANSITION LINER

This highly flexible liner is suitable for ambient and hot water cure applications and is an economic choice for installations with 45° and sweeping 90° bends and/or single diameter transitions.*

2.00" Flex Liner (Roll)*	328' (100 m)	922-5037
3.00" Flex Liner (Roll)*	328' (100 m)	922-5038
4.00" Flex Liner (Roll)	328' (100 m)	922-5020
5.00" Flex Liner (Roll)	328' (100 m)	922-5030
6.00" Flex Liner (Roll)	328' (100 m)	922-5021
8.00" Flex Liner (Roll)	328' (100 m)	922-5022

*2.00-3.00" liner is not designed for transitions.

SUPER FLEX LINER

Super flex liner is an economic solution for installations with 45° and sweeping 90° bends and is suitable for use in ambient and hot water curing applications. Sewn transitions are also available.

2.00" Super Flex Liner (Roll)	328' (100 m)	922-8192
3.00" Super Flex Liner (Roll)	328' (100 m)	922-8193
4.00" Super Flex Liner (Roll)	328' (100 m)	922-8194
5.00" Super Flex Liner (Roll)	328' (100 m)	922-8195
6.00" Super Flex Liner (Roll)	328' (100 m)	922-8196
8.00" Super Flex Liner (Roll)	328' (100 m)	922-8198
Sewn Transitional Liner	Special Order	Call Factory

BRAWOLINER®

Suitable for ambient and hot water cure applications, Brawoliner is a premium, woven, seamless liner for installations with 45° and sweeping 90° bends.

2.00" Brawoliner (Roll)	164' (50 m)	922-5252
3.00" Brawoliner (Roll)	328' (100 m)	922-5253
4.00" Brawoliner (Roll)	328' (100 m)	922-5254
5.00" Brawoliner (Roll)	328' (100 m)	922-5255
6.00" Brawoliner (Roll)	328' (100 m)	922-5256
8.00" Brawoliner (Roll)	328' (100 m)	922-5258



LINERS, PRE LINER & CALIBRATION TUBES

BRAWOLINER® 3D

A premium transition liner that is suitable for ambient and hot water cure applications, Brawoliner 3D is a premium, woven, seamless liner that is by far the best choice for installations with multiple 45° and sweeping 90° bends and/or transitions.

Description	Quantity	Part #
3.00–4.00" Brawoliner 3D (Roll)	328' (100 m)	922-5270
4.00–6.00" Brawoliner 3D (Roll)	328' (100 m)	922-5271
6.00–9.00" Brawoliner 3D (Roll)	328' (100 m)	922-5272



PRE-LINER

Made of a durable polyethylene based tubular film, pre-liners prevent the buckling of liners in pipes with larger damaged areas. They also prevent the washing out of resin in the presence of water infiltration.

4.00" Pre-Liner (Roll)	328' (100 m)	922-5134
5.00" Pre-Liner (Roll)	328' (100 m)	922-5135
6.00" Pre-Liner (Roll)	328' (100 m)	922-5136
8.00" Pre-Liner (Roll)	328' (100 m)	922-5138
10.00" Pre-Liner (Roll)	328' (100 m)	922-5140
12.00" Pre-Liner (Roll)	328' (100 m)	922-5142



HEAVY DUTY CALIBRATION TUBES

Tough and resilient, our PVC-based calibration tubes have a high temperature resistance and are versatile enough for ambient, hot water and steam curing applications. Compatible with most resin types.

4.00" Calibration Tube, HD (Clear)	328' (100 m)	922-8199
5.00" Calibration Tube, HD (Clear)	328' (100 m)	922-8202
6.00" Calibration Tube, HD (Clear)	328' (100 m)	922-8203
8.00" Calibration Tube, HD (Clear)	328' (100 m)	922-5328
10.00" Calibration Tube, HD (Clear)	328' (100 m)	922-5330
12.00" Calibration Tube, HD (Clear)	328' (100 m)	922-5332



LIGHT DUTY CALIBRATION TUBES

An economical solution for small diameter projects and suitable for ambient cure applications. Compatible with all liners and most resin types.

2.00" Calibration Tube, LD (Yellow)	328' (100 m)	922-5035
3.00" Calibration Tube, LD (Green)	328' (100 m)	922-5039
4.00" Calibration Tube, LD (Green)	328' (100 m)	922-5374
5.00" Calibration Tube, LD (Green)	328' (100 m)	922-5375
6.00" Calibration Tube, LD (Green)	328' (100 m)	922-5376



SECTIONAL POINT REPAIR SYSTEM

WE MEASURE TWICE SO YOU DON'T HAVE TO CUT AT ALL.

HammerHead® point repair is a fast, trenchless, selective system for pipes 3 to 48 inches in diameter and gives contractors two benefits over other point-repair systems on the market—a long working time with a short cure time.

LONGEST WORKING TIMES, QUICK CURE TIMES

Working time of ambient-cure silicate resins is much longer than that of thermosetting epoxies. And the HammerHead point repair has the longest working time of any silicate-based resin offered by similar systems on the market.

TESTED TO BE TOUGH & TRUSTED

The composite HammerHead point repair system consists of a specially designed glass-reinforced fabric and two-part ambient-cure silicate resin mixture. Engineered as a high-performance system exceeding the structural requirements of ASTM F1216, the HammerHead system is the ideal cost-effective, environmentally friendly CIPP point or sectional repair solution for all sewer and storm water pipes having a circular or oval cross section.

NON HAZARDOUS, LONG SHELF LIFE

HammerHead point repair resin is odor-free, styrene-free, VOC-free and presents no hazards to the environment or human health. Resins cure under ambient sewer conditions with very low shrinkage, even under water. The silicate-based resin keeps well in its storage containers without risk of leakage, and a long shelf life ensures that infrastructure agencies and municipalities will be able to stock inventory on site without undue concern over short expiration.

Each system is custom-assembled based on specific point repair project requirements and includes: fiberglass mat, pre-measured resin, pre-measured hardener, packer protection sleeves, spreading spatulas, work surface, electricians tape, disposable gloves, ties.

POINT REPAIR, (3.00–24.00" x 24.00")

Description	Part #
3.00 x 24.00", Point Repair, Summer	PR-S3
3.00 x 24.00", Point Repair, Winter	PR-W3
4.00 x 24.00", Point Repair, Summer	PR-S4
4.00 x 24.00", Point Repair, Winter	PR-W4
6.00 x 24.00", Point Repair, Summer	PR-S6
6.00 x 24.00", Point Repair, Winter	PR-W6
8.00 x 24.00", Point Repair, Summer	PR-S8
8.00 x 24.00", Point Repair, Winter	PR-W8
10.00 x 24.00", Point Repair, Summer	PR-S10
10.00 x 24.00", Point Repair, Winter	PR-W10
12.00 x 24.00", Point Repair, Summer	PR-S12
12.00 x 24.00", Point Repair, Winter	PR-W12
15.00 x 24.00", Point Repair, Summer	PR-S15
15.00 x 24.00", Point Repair, Winter	PR-W15
18.00 x 24.00", Point Repair, Summer	PR-S18
18.00 x 24.00", Point Repair, Winter	PR-W18
24.00 x 24.00", Point Repair, Summer	PR-S24
24.00 x 24.00", Point Repair, Winter	PR-W24

ELBOW POINT REPAIR, (3.00–8.00" x 24.00")

3.00 x 24.00", Elbow Point Repair, Summer	PR-ELS3
3.00 x 24.00", Elbow Point Repair, Winter	PR-ELW3
4.00 x 24.00", Elbow Point Repair, Summer	PR-ELS4
4.00 x 24.00", Elbow Point Repair, Winter	PR-ELW4
6.00 x 24.00", Elbow Point Repair, Summer	PR-ELS6
6.00 x 24.00", Elbow Point Repair, Winter	PR-ELW6
8.00 x 24.00", Elbow Point Repair, Summer	PR-ELS8
8.00 x 24.00", Elbow Point Repair, Winter	PR-ELW8



SECTIONAL POINT REPAIR SYSTEM



BEFORE HAMMERHEAD® POINT REPAIR



AFTER HAMMERHEAD POINT REPAIR

POINT REPAIR, (3.00–24.00" x 48.00")

Description	Part #
3.00 x 48.00", Point Repair, Summer	PR-S3X48
3.00 x 48.00", Point Repair, Winter	PR-W3X48
4.00 x 48.00", Point Repair, Summer	PR-S4X48
4.00 x 48.00", Point Repair, Winter	PR-W4X48
6.00 x 48.00", Point Repair, Summer	PR-S6X48
6.00 x 48.00", Point Repair, Winter	PR-W6X48
8.00 x 48.00", Point Repair, Summer	PR-S8X48
8.00 x 48.00", Point Repair, Winter	PR-W8X48
10.00 x 48.00", Point Repair, Summer	PR-S10X48
10.00 x 48.00", Point Repair, Winter	PR-W10X48
12.00 x 48.00", Point Repair, Summer	PR-S12X48
12.00 x 48.00", Point Repair, Winter	PR-W12X48
15.00 x 48.00", Point Repair, Summer	PR-S15X48
15.00 x 48.00", Point Repair, Winter	PR-W15X48
18.00 x 48.00", Point Repair, Summer	PR-S18X48
18.00 x 48.00", Point Repair, Winter	PR-W18X48
24.00 x 48.00", Point Repair, Summer	PR-S24X48
24.00 x 48.00", Point Repair, Winter	PR-W24X48

POINT REPAIR, 30.00–36.00" x 48.00"

30.00 x 48.00", Point Repair, Summer	PR-S30X48
36.00 x 48.00", Point Repair, Summer	PR-S36X48
42.00 x 48.00", Point Repair, Summer	PR-S42x48
48.00 x 48.00", Point Repair, Summer	PR-S48x48



POINT REPAIR INFLATABLE PACKERS



**PR-PACK34,
3.00–4.00" x 24.00" Packer**

**PR-PACK46,
4.00–6.00" x 24.00" Packer**

**PR-PACK610FT,
6.00–10.00" x 24.00"
Flow Through Packer**

PACKERS

Description	Part #
3.00–4.00" x 24.00" Packer	PR-PACK34
4.00–6.00" x 24.00" Packer	PR-PACK46
3.00–4.00" x 48.00" Packer	PR-PACK34X48
4.00–6.00" x 48.00" Packer	PR-PACK46X48

ELBOW PACKERS

3.00" Elbow Packer	PR-PACK3EL
4.00" Elbow Packer	PR-PACK4EL
6.00" Elbow Packer	PR-PACK6EL
8.00" Elbow Packer	PR-PACK8EL

FLOW THROUGH PACKERS

Description	Part #
6.00–10.00" x 24.00" Flow Through Packer	PR-PACK610FT
12.00–15.00" x 24.00" Flow Through Packer	PR-PACK1215FT
18.00–24.00" x 24.00" Flow Through Packer	PR-PACK1824FT
6.00–10.00" x 48.00" Flow Through Packer	PR-PACK610FT48
12.00–15.00" x 48.00" Flow Through Packer	PR-PACK1215FT48
18.00–24.00" x 48.00" Flow Through Packer	PR-PACK1824FT48
6.00–10.00 x 84.00" Flow Through Packer	PR-PACK610X84



**PR-PACK3EL,
3.00" Elbow Packer**

POINT REPAIR ACCESSORIES



PR-PUSHROD, 5' Push Rods

MISCELLANEOUS PARTS AND ACCESSORIES

Description	Part #
Air Regulator, (0 to 35 PSI), 3.00–24.00" pipe	PR-REGULATOR
Push Rod, 5' each	PR-PUSHROD
Flex Adaptor	PR-ADAPTER
14.00" Zip Tie, Use for 4.00–10.00" Packer	PR-TY14
36.00" Zip Tie, Use for 12.00–24.00" Packer	PR-TY36
Binding wire for 6.00" and smaller non flow-thru packers (roll)	PR-WIRE
Large Diameter Air Regulator, (0 to 30 PSI) 30.00" and above.	PR-REGULATOR30



PR-REGULATOR, Air Regulator



PR-1824X48PILOW,
18.00–24.00" x 48.00"
Pillow Packer

LARGE DIAMETER PACKERS

18.00–24.00" x 48.00", Pillow Packer	PR-1824X48PILOW
30.00–36.00" x 48.00", Pillow Packer	PR-3036X48PILOW
42.00–48.00" x 48.00", Pillow Packer	PR-4248x48PILOW



PR-ADAPTER, Flex Adaptor

COMPOSITE INVERSION DRUMS

COMPARING OUR DRUMS TO THE COMPETITION IS ALMOST UNFAIR.

Simply put, Hydra composite drums are on the cutting edge of CIPP inversion drum technology. And HammerHead Trenchless is proud to be the first and only company in North America to offer them.

Do more with less. We've cut the weight by as much as 50 percent compared to outdated inversion drums, making Hydra drums ultra-portable on your jobsite. But we didn't stop there. Besides making them lightweight, we increased drum capacity by as much as 35% when compared to drums of similar weight.

Composite drums easily withstand the higher temperatures needed for steam curing so you can use them for whatever your job or personal preferences call for. The rotational drum simplifies installations based on conditions on your jobsite. In addition they are easily maintained, corrosion free, and seamless, eliminating a common failure point in other drums.



**Midi-Hydra
Inversion Drum**



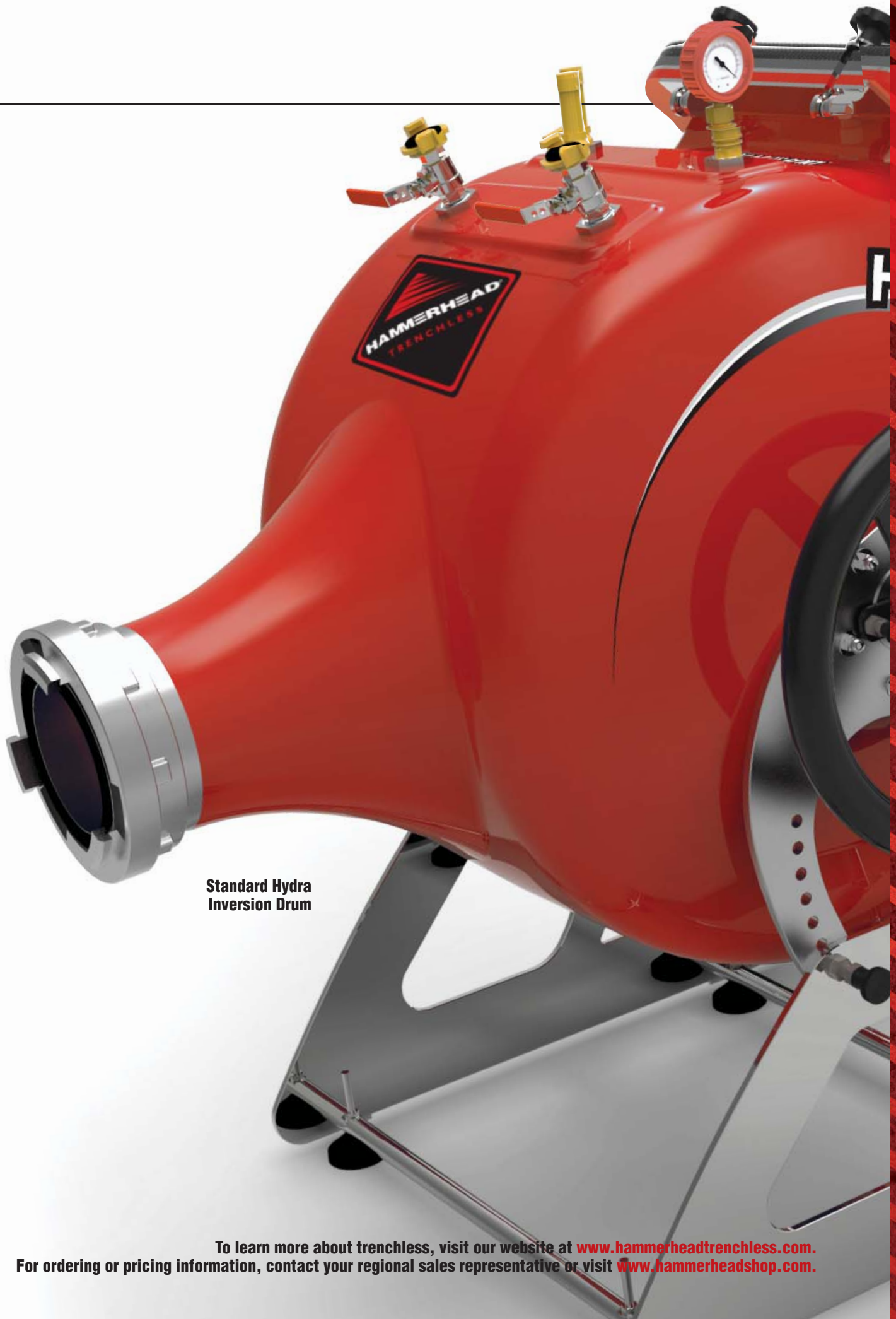
**Super-Hydra
Inversion Drum**

HYDRA COMPOSITE INVERSION DRUMS

Description	Rec. Liner Size	Part #
Midi-Hydra Composite Drum	2.00-8.00"	922-1022
Hydra Composite Drum	2.00-8.00"	922-1015
Super-Hydra Composite Drum	4.00-12.00"	922-1020

COMPOSITE INVERSION DRUM PARTS AND ACCESSORIES

Description	Drum Model	Part #
Pressure Gauge	All Models	922-5036
Pressure Regulator	All Models	922-5012
Fitting, Recirculation Hose	All Models	922-5611
Gate Valve	All Models	922-5211
Storz to Camlock, 6"	Midi & Hydra	922-8350
Storz to Camlock, 8"	Super Hydra	922-8551



**Standard Hydra
Inversion Drum**

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.

AMBIENT CURING SYSTEMS



THE MOST ECONOMICAL & SIMPLE PATH TO INSTALLING CURED IN PLACE PIPE

Ambient curing systems are simple to operate and an extremely economical solution to lateral lining. Simply invert the liner, then cap it off under pressure to let it cure.

On larger projects where multiple services are lined, this system can increase your production by allowing you to move on to the next inversions. All that is required is additional curing caps and tanks. Perform multiple projects a day with the same crew and minimal equipment!



13 Gallon Air Tank



Liner Clamp



Curing Cap

Description	Part #
Air Tank (13 Gallon)	922-5406
Air Pressure Gauge	922-5402
Air Hose, Nylon, Coiled, (50 ft)	922-5403
Air Hose Reel (100 ft Capacity)	922-5405
2.00" Curing Cap	922-5420
3.00" Curing Cap	922-5421
4.00" Curing Cap	922-5422
6.00" Curing Cap	922-5423
8.00" Curing Cap	922-5424
2.00–4.00" Liner Clamp	922-5425
4.00–8.00" Liner Clamp	922-5426



HOT WATER

HOT WATER CURING SYSTEMS

EFFICIENT, FAST & VERSATILE CIPP CURING SOLUTION

Our compact and mobile hot water system increases your productivity while allowing you to work year round in colder climates. Expand your capabilities by choosing the right resin for your jobsite conditions, increasing your working time while decreasing your curing time.



Hot Box, Diesel



Inversion Hose

Description	Drum Model	Part #
Hot Box, Diesel	All Models	922-1007
Water Pump	All Models	922-1008
Inversion Hose, 6.00" (10 ft) with Couplers	Mini-Hydra, Hydra	922-5000
Inversion Hose, 8.00" (10 ft) with Couplers	Super-Hydra	922-5215
Laser Temperature Gun	All Models	922-8386
Extension Kit, Hot Water Hose, 50'	All Models	922-5628

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.



PROFESSIONAL INSTALLERS WANT TOOLS THAT HELP GET THE JOB DONE RIGHT.

USE THE RIGHT TOOLS FOR YOUR JOB

Professional installers want tools that help them get their jobs completed on time and on budget.

Proper resin impregnation of liners is one of the keys to project success. With variable speed and pressure controls, our wet out tables can increase your efficiency and performance.

Simply put, our wet out tables are designed to provide you with precise and consistent wet outs ensuring the highest quality installed liner.

Description		Part #
Wet Out Table		922-1002
Roller Extension		922-7184
Shim Kit, Wet Out Table	6, 7, 8, 8.5 & 10 mm	922-5081
Shim, 6.0 mm		922-5077
Shim, 6.5 mm		922-5084
Shim, 7.0 mm		922-5082
Shim, 8.0 mm		922-5078
Shim, 8.5 mm		922-5083
Shim, 10.0 mm		922-5079
Shim, 12.0 mm		922-5085



INVERSION DRUM NOZZLES



Straight Inversion Drum Nozzle

MIDI HYDRA NOZZLES

Description	Connection	Part #
2.00" Nozzle (straight)	6.00" Storz	922-5043
3.00" Nozzle (straight)	6.00" Storz	922-5044
4.00" Nozzle (straight)	6.00" Storz	922-5004
4.00" Nozzle (90°)	6.00" Storz	922-5002
4.00" Nozzle (45°)	6.00" Storz	922-5047
5.00" Nozzle (straight)	6.00" Storz	922-8442
6.00" Nozzle (straight)	6.00" Storz	922-5005
6.00" Nozzle (90°)	6.00" Storz	922-5003
6.00" Nozzle (45°)	6.00" Storz	922-5048

HYDRA NOZZLES

2.00" Nozzle (straight)	6.00" Storz	922-5043
3.00" Nozzle (straight)	6.00" Storz	922-5044
4.00" Nozzle (straight)	6.00" Storz	922-5004
4.00" Nozzle (90°)	6.00" Storz	922-5002
4.00" Nozzle (45°)	6.00" Storz	922-5047
5.00" Nozzle (straight)	6.00" Storz	922-8442
6.00" Nozzle (straight)	6.00" Storz	922-5005
6.00" Nozzle (90°)	6.00" Storz	922-5003
6.00" Nozzle (45°)	6.00" Storz	922-5048
8.00" Nozzle (straight)	6.00" Storz	922-5018
8.00" Nozzle (90°)	6.00" Storz	922-5017

SUPER-HYDRA NOZZLES

4.00" Nozzle (straight)	8.00" Storz	922-5049
4.00" Nozzle (90°)	8.00" Storz	922-5070
6.00" Nozzle (straight)	8.00" Storz	922-5050
6.00" Nozzle (90°)	8.00" Storz	922-5071
8.00" Nozzle (straight)	8.00" Storz	922-5051
8.00" Nozzle (90°)	8.00" Storz	922-5072
10.00" Nozzle (straight)	8.00" Storz	922-5052
10.00" Nozzle (90°)	8.00" Storz	922-5073
12.00" Nozzle (straight)	8.00" Storz	922-5053
12.00" Nozzle (90°)	8.00" Storz	922-5074

STORZ WRENCHES

6.00" Storz Wrench, Each	6.00" Storz	922-5075
8.00" Storz Wrench, Each	8.00" Storz	922-5076



90° Inversion Drum Nozzle

ACCESSORIES

MISCELLANEOUS ACCESSORIES

Description	Quantity	Part #
Vacuum Pump		922-1003
Vacuum Line Set		922-5007
Electric Drill Mixer		922-1004
Electronic Scale		922-1005
Mixing Paddle		922-1016
Digital Thermometer Probe Wire	39.00"	922-5014
Laser Temperature Gun		922-8386

RECIRCULATION HOSE AND FITTINGS

Recirculation Hose, 1.00" (Roll)	300' (91 m)	922-5065
Fitting, Recirculation Hose		922-5611

PULL TAPE

Pull Tape, 1.00" (Roll)	330' (100 m)	922-5013
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HOSE CLAMPS

Hose Clamp, (1.00 – 1.25")	Bag of 10	922-5010
Hose Clamp, (1.25 – 2.25")	Bag of 5	922-5011
Hose Clamp, (1.75 – 2.75")	Bag of 5	922-5204
Hose Clamp, (2.50 – 3.50")	Bag of 5	922-5200
Hose Clamp, (3.00 – 4.00")	Bag of 5	922-5008
Hose Clamp, (4.50 – 6.00")	Bag of 5	922-5009
Hose Clamp, (8.00")	Bag of 5	922-5201
Hose Clamp, (10.00")	Bag of 3	922-5202
Hose Clamp, (12.00")	Bag of 3	922-5203



Recirculation Hose



Vacuum Pump, 7 cfm, 1/2 HP



Vacuum Line Set



Laser Temperature Gun



Thermometer Probe Wire

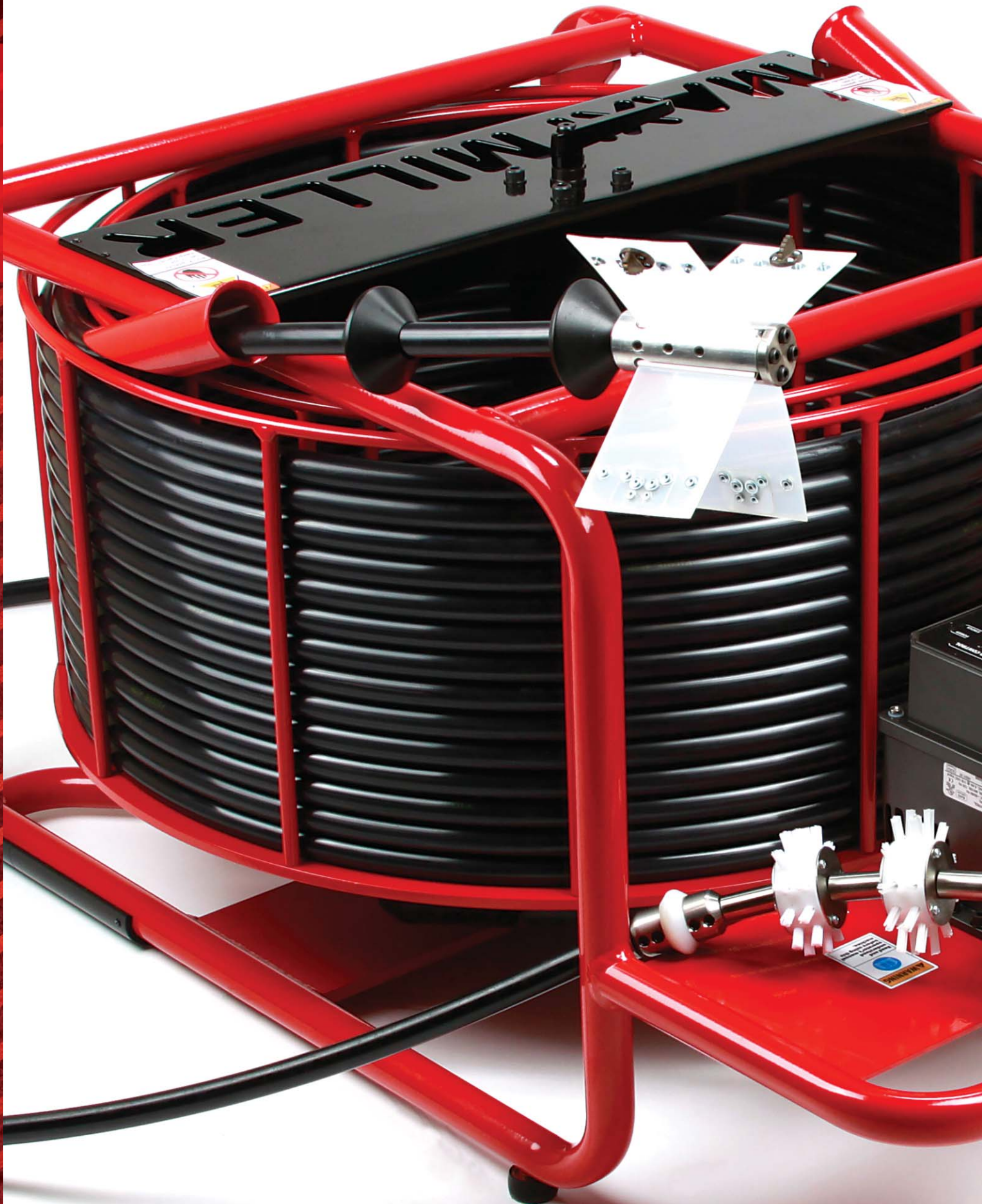


Electronic Scale



Pull Tape

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.



SMART SOLUTIONS FOR SMALL DRAIN REHAB

SMART SOLUTIONS FOR SMALL DRAIN REHAB.

HammerHead® Trenchless is proud to be the leading authorized North American distributor of Picote systems for pipe reinstatement, cleaning and repair.

The line of Picote tools includes the award winning Smart Cutters for pipe reinstatement, grinding chains for drain cleaning and many other accessories for the repair or reinstatement of pipes from 1.25–8.00".



LEADING THE WAY

The award-winning Smart Cutter offers the latest in small branch rehabilitation 1.25-8.00".

This unique system has successfully reinstated more than 30,000 branches worldwide to date inside cast iron, concrete and clay pipes.

The Smart Cutter not only eliminates the need for traditionally expensive methods, but its user friendly and fully customizable design also greatly reduces training and maintenance costs and can also be used as an aid for robots or for the Twister to achieve a smooth finish.

Navigating 90° bends and diameter transitions effortlessly, the Smart Cutter accurately shapes openings without accidental damage to the original pipe.

A great remedial tool, the Smart Cutter also removes lead, nails, roots, fins and epoxy slugs as well as other inconsistencies such as wrinkles in the pipe.

BRANCHING OUT

Achieve more with less time and a much smaller budget. Offer small drain rehabilitation from 1.25–8.00". Packages can be customized. Starter kits are available in all common sizes and are a popular initial purchase.



PICOTE STARTER PACKAGES

Description	Part #
Starter Package 2.00"	922-8011
Starter Package 2.00" (with Twister)	922-8337
Starter Package 3.00" Aluminum	922-8015
Starter Package 3.00" Aluminum (with Twister)	922-8338
Starter Package 4.00" Aluminum	922-8017
Starter Package 6.00" Aluminum	922-8019
Starter Package 8.00" Aluminum	922-8020

PHONE: 800.331.6653 (USA only) | INTERNATIONAL: +1 920.648.4848
FACSIMILE: 920.648.1780 | EMAIL: info@hammerheadmole.com



HUBS AND HUB DISCS



SMART CUTTER HUBS

Description	Part #
1.25" Hub 1/4" Shaft No Wedge	922-8040
1.50" Hub 1/4" Shaft No Wedge	922-8038
1.50" Hub Short 1/4" Shaft No Wedge	922-8039
2.00" Hub Narrow 1/4" Shaft No Wedge	922-8037
2.00" Hub Narrow 1/3" Shaft No Wedge	922-8036
2.00" Hub Narrow 1/3" Shaft 2 Wedge (0.79 x 1.97")	922-8034
3.00" Hub Narrow 1/3" Shaft No Wedge	922-8035
3.00" Hub Short 1/3" Shaft Aluminum (1.38 x 1.97")	922-8032
3.00" Hub Narrow 1/3" Shaft 2 Wedge (0.79 x 2.95")	922-8033
3.00" Hub 1/2" Shaft Aluminum (1.38 x 2.95")	922-8028
3.00" Hub Short 1/2" Shaft Aluminum (1.38 x 1.97")	922-8030
4.00" Hub 1/2" Shaft Aluminum (1.57 x 3.94")	922-8026
4.00/6.00" 6 Panel Hub 1/2" Shaft Aluminum (.49x2x4)	922-8311
6.00" Hub 1/2" Shaft Aluminum (1.57 x 5.91")	922-8024
6.00/8.00" 6 Panel Hub 1/2" Shaft Aluminum (.49x2x4)	922-8310
8.00" Hub 1/2" Shaft Aluminum (1.57 x 7.87")	922-8022



SMART CUTTER HUB DISCS

Hub Disc Large	922-8041
Hub Disc Small	922-8042
Steering Hub Disc Large	922-8043
Steering Hub Disc Small	922-8044
Two Wedge Hub Disc	922-8045

GRINDING, POLISHING AND CUTTING PANELS

SIDE GRINDING PANELS

These replacement panels are used in reinstatement Smart Cutter system to grind out remaining liner after the initial cut through.

Description	Part #
Side Grinding Panel No Wedge 1.57 x 2.36"	922-8060
Side Grinding Panel No Wedge 2.00 x 4.00"	922-8059
Side Grinding Panel with Wedge 2.00 x 4.00"	922-8058
Side Grinding Panel with Wedge 3.00 x 5.00"	922-8057
Side Grinding Panel with Wedge 4.00 x 4.00"	922-8307
Side Grinding Panel with Wedge 4.00 x 6.00"	922-8056
Side Grinding Panel with Wedge 6.00 x 6.00"	922-8055
Side Grinding Panel with Wedge 6.00 x 8.00"	922-8054
Side Grinding Panel with Wedge 8.00 x 12.00"	922-8053



922-8054, Side Grinding Panel with Wedge 6.00 x 8.00"

POLISHING PANELS

Polishing panels are used to fine tune the sides of the pipe after reinstatement with the Smart Cutter system.

Polishing Panel with Wedge 2.00 x 4.00"	922-8061
Polishing Panel with Wedge 3.00 x 4.00"	922-8062
Polishing Panel with Wedge 4.00 x 5.00"	922-8063
Polishing Panel with Wedge 4.00 x 6.00"	922-8064



922-8064, Polishing Panel with Wedge 4.00 x 6.00"

PIPE CUTTING PANEL

Quickly and easily remove excess cured pipe that has overshoot during lining into the main line with Picote Pipe Cutter. A simple solution — attach special panels to your Smart Cutter hub and cut the excess piece through the lateral.



Pipe Cutter, 3.00" Panels, 4 panels, (Use with 922-8030 or 922-8032)	922-8151
Pipe Cutter, 4.00" Panels, 4 panels, w/Centralizers (Use with 3.00" Hub PN: 922-8028)	922-8152
Pipe Cutter, 4.00" UltraFlex, Kit (Used when cutting near bend location)	922-8215
Pipe Cutter, 6.00" Panels, 4 panels, w/Centralizers (Use with 4.00" Hub PN: 922-8026)	922-8153
Pipe Cutter, 8.00" SuperFlex, Kit	922-8305
Centralizer, Pipe Cutter, 4.00"	922-8216
Centralizer, Pipe Cutter, 6.00"	922-8217
Pipe Cutter, 8.00" Panels, 6 Panels	922-8154



922-8153, Pipe Cutter 6.00" Panel Package, 4 panels, w/Centralizers

FRONT PANELS AND DRILL HEADS

FRONT PANELS AND DRILL HEADS

Replaces worn front panels in Smart Cutter, Twister and liner removal systems.

Description	Part #
Front Metal Panel, 2.17"	922-8074
Front Metal Panel, 3.00"	922-8073
Front Metal Panel, 3.35"	922-8072
Front Metal Panel, 4.50"	922-8071
Front Metal Panel, 5.00"	922-8070
Front Plastic Panel, 2.17"	922-8077
Front Plastic Panel, 3.35"	922-8076
Front Plastic Panel, 5.00"	922-8075
Front Drill Head, Ridged, 1.38"	922-8079

SPECIAL DRILL HEADS

Call factory for special drill head applications.

1.25–2.00" Special Drill Head 1/3" Shaft (0.79 x 1.57")	922-8065
3.00–4.00" Special Drill Head 1/3" Shaft (1.18 x 1.97")	922-8066
3.00" Special Drill Head, 1/2" Shaft (1.18 x 1.97")	922-8067
4.00" Special Drill Head, 1/2" Shaft (1.57 x 2.36")	922-8068
6.00" Special Drill Head, 1/2" Shaft (1.97 x 3.15")	922-8069



922-8074, Front Metal Panel, 2.17"



922-8077, Front Plastic Panel, 2.17"



922-8079, Front Drill Head, Ridged, 1.38"



922-8069, 6.00" Special Drill Head, 1/2" Shaft (1.97 x 3.15")

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.

EFFICIENT DRAIN CLEANING

THE ORIGINAL GRINDING CHAIN

Made from stainless steel, these chains will not rust and can be used time and time again providing a cost-effective solution. An all-round general cleaning and grinding chain, the Original is more effective than water jetting methods. A great value quality chain, this is highly regarded as the first choice for many technicians.

Description	Part #
1.25" Original Chain 1/4" Shaft	922-8114
2.00" Original Chain 1/3" Shaft	922-8115
3.00" Original Chain 1/3" Shaft	922-8116
4.00" Original Chain 1/3" Shaft	922-8117
6.00" Original Chain 1/3" Shaft	922-8118
3.00" Original Chain 1/2" Shaft	922-8119
4.00" Original Chain 1/2" Shaft	922-8120
6.00" Original Chain 1/2" Shaft	922-8121
8.00" Original Chain 1/2" Shaft	922-8122
9.00" Original Chain 1/2" Shaft	922-8213

THE CYCLONE

Faster and stronger than regular grinding and cleaning chains, the Cyclone purges even the most problematic pipes. Not only does this chain remove roots and other hard materials like lead quickly and easily, when teamed with one of the Miller machines the combined torque power delivers an even more rapid result.

3.00" Cyclone Circular Chain 1/3" Shaft	922-8123
4.00" Cyclone Circular Chain 1/3" Shaft	922-8124
6.00" Cyclone Circular Chain 1/3" Shaft	922-8125
3.00" Cyclone Circular Chain 1/2" Shaft	922-8126
4.00" Cyclone Circular Chain 1/2" Shaft	922-8127
6.00" Cyclone Circular Chain 1/2" Shaft	922-8128
8.00" Cyclone Circular Chain 1/2" Shaft	922-8129
9.00" Cyclone Circular Chain 1/2" Shaft	922-8214
10.00" Cyclone Circular Chain 1/2" Shaft	922-8130

SMART SPIDER

The Smart Spider cleans all types of pipes fast and with high efficiency—even safe to use in PVC pipes. A unique tool designed specifically for pipes where the bottom or other sections are missing. Easily navigates 90 degree bends.

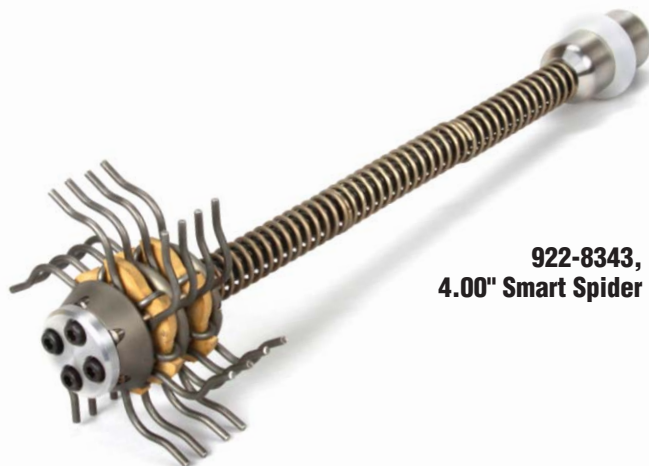
4.00" Smart Spider	922-8343
6.00" Smart Spider	922-8344
Smart Spider Leg, 4.00" (12 pcs)	922-8345
Smart Spider Leg, 6.00" (12 pcs)	922-8346
Smart Spider Flex Ring (10 pcs)	922-8347
Smart Spider Axle (6 pcs)	922-8348



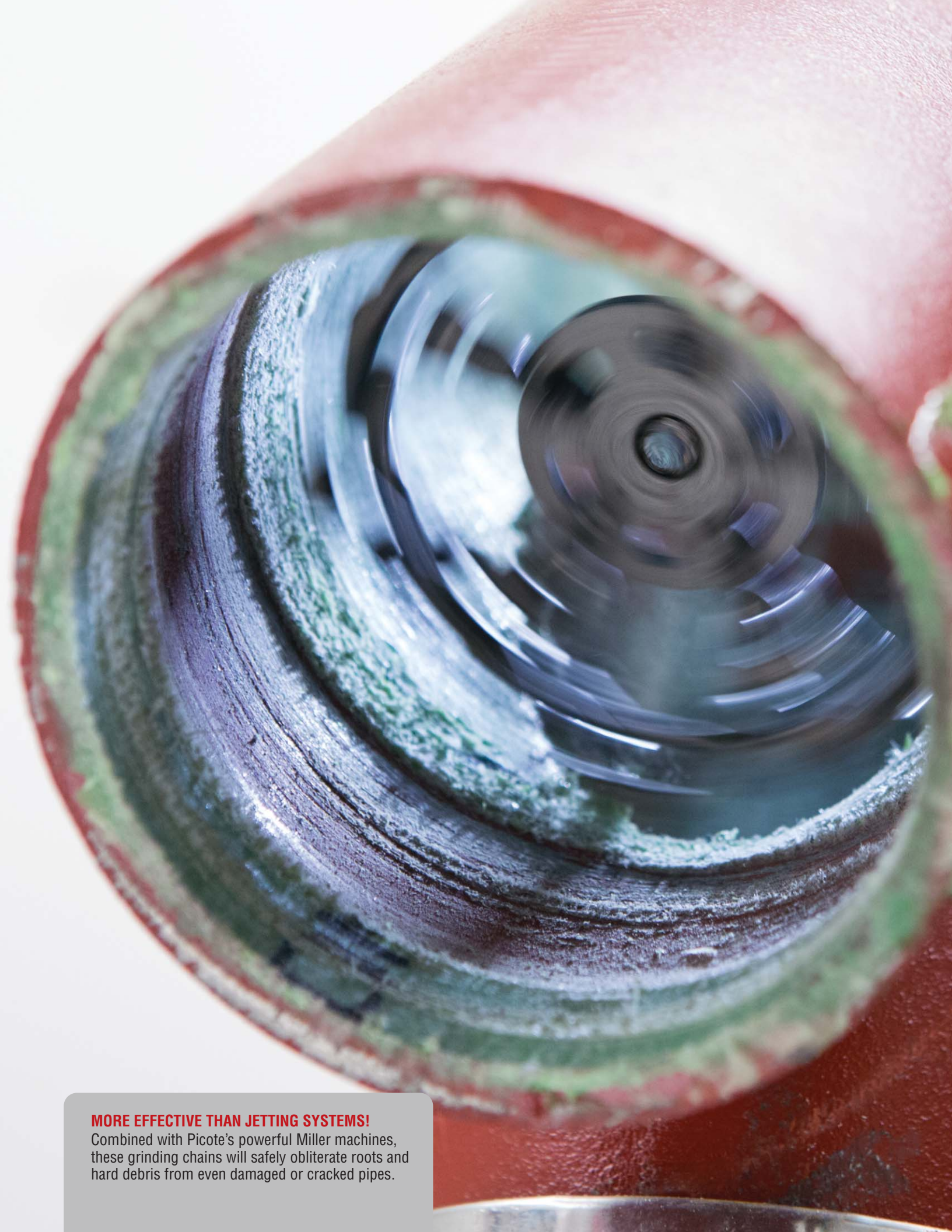
922-8118, 6.00" Original Chain 1/3" Shaft



922-8125, 6.00" Cyclone Circular Chain 1/3" Shaft



922-8343, 4.00" Smart Spider



MORE EFFECTIVE THAN JETTING SYSTEMS!

Combined with Picote's powerful Miller machines, these grinding chains will safely obliterate roots and hard debris from even damaged or cracked pipes.

PICOTE TWISTERS

AGGRESSIVE, SUPERIOR CUTTING PROFILES FOR UNMATCHED PRODUCTION.

TWISTER

Designed to be operated in plastic pipes, the original Twister features an extremely flexible shaft that can navigate multiple bends and diameter changes accurately without damage to the original pipe.

TWISTER MINI

Designed for 2.00 & 3.00" plastic pipes. The unique design features a spring action which gives the small Twister great flexibility to navigate tight bends. The metal front drill head makes this a fast and efficient tool.

TWISTER EXPRESS

The aggressive cutting profile of the Twister Express increases performance and is up to six times faster than the original Twister. The Twister Express features replaceable plastic guards to prevent damage to the plastic pipe.

LINER REMOVERS

This Twister has bite! These liner removers feature an aggressive set of carbides and cutting profiles, that enable it to perform well in liner removal for 4.00 & 6.00" cast iron pipes.



PICOTE TWISTERS

TWISTERS

TWISTERS

Description	Part #
4.00" Twister for lined pipe (3.00" FP)	922-8140
4.00" Twister for unlined pipe (3.35" FP)	922-8141
6.00" Twister (4.50" FP)	922-8142

TWISTER MINI

2.00" Twister Mini	922-8148
3.00" Twister Mini	922-8149

TWISTER EXPRESS

4.00" Twister Express for lined pipe with 3.00" Front Drill Head	922-8218
4.00" Twister Express for unlined pipe with 3.35" Front Drill Head	922-8138

LINER REMOVERS

4.00" Twister Liner Remover for Lined Pipe (3.00" FP)	922-8200
4.00" Twister Liner Remover for Unlined Pipe (3.35" FP)	922-8201
6.00" Twister Liner Remover (5.00" FP)	922-8147

TWISTER REPLACEMENT PARTS

Front Drill Head Kit, 2.00" Twister Mini (for 922-8148)	922-8219
Front Drill Head Kit, 3.00" Twister Mini (for 922-8149)	922-8220
Front Drill Head Kit, 4.00" Twister Express with Plastic Guards (for 922-8218)	922-8222
Plastic Guards, 4.00" Twister Express (for 922-8218)	922-8221
Front Drill Head Kit, 4.00" Twister Express with Plastic Guards (for 922-8138)	922-8146
Plastic Guards, 4.00" Twister Express (for 922-8138)	922-8139
Front Flat Drill Head (All Liner Removers)	922-8241
Front Panel, 3.00" (for 4.00" Twister Liner Remover, PN: 922-8200)	922-8242
Front Panel, 3.35" (for 4.00" Twister Liner Remover, PN: 922-8201)	922-8243
Front Panel, 5.00" (for 6.00" Twister Liner Remover, PN: 922-8147)	922-8244



922-8148,
2.00" Twister Mini



922-8141, 4.00" Twister
for unlined pipe (3.35" FP)



922-8138, 4.00" Twister
Express for unlined pipe
(3.35" Front Drill Head)



922-8200, 4.00" Twister
Liner Remover for Lined
Pipe (3.00" FP)

HAMMERHEAD

MILLER SYSTEMS

THESE MILLER SYSTEMS HAVE THE MUSCLE TO POWER ALL OF YOUR PICOTE TOOLS.

At the heart of the Picote system are the powerful Miller units. Four models ranging from the compact and lightweight Micro-Miller for short shots in 2.00–4.00" pipes to the Heavy Duty Maxi-Miller with a 100' shaft and the capability to work in pipes as small as 2.00" and as large as 10.00" in diameter. These Millers can power the award winning Smart Cutters, Twisters, liner removers and pipe cutters in lining operations and can also operate the powerful range of grinding chains for highly efficient drain cleaning.

MICRO-MILLER

The compact and lightweight Micro-Miller has a 39' range with a 1/3" shaft and is an economic choice for 2.00–3.00" pipes with lateral cutters and 2.00–4.00" drain cleaning.

MINI-MILLER

The most popular choice in small diameter pipe, the compact and convenient Mini-Miller has a 55' range with a 1/3" shaft and is for 2.00–3.00" pipes with lateral cutters and 2.00–4.00" drain cleaning.

MIDI-MILLER

With 39' of 1/2" cable, the Midi-Miller is suitable for drain cleaning, pipe cutting or powering the Smart Cutter and Twisters inside diameters 3.00–8.00". An adapter for 1/3" shaft is available for 2.00" drains. The Midi Miller also features an electric motor and safety clutch. With a push/pull system and stair glides for easy transportation the Midi-Miller is a great all-round machine.

MAXI-MILLER

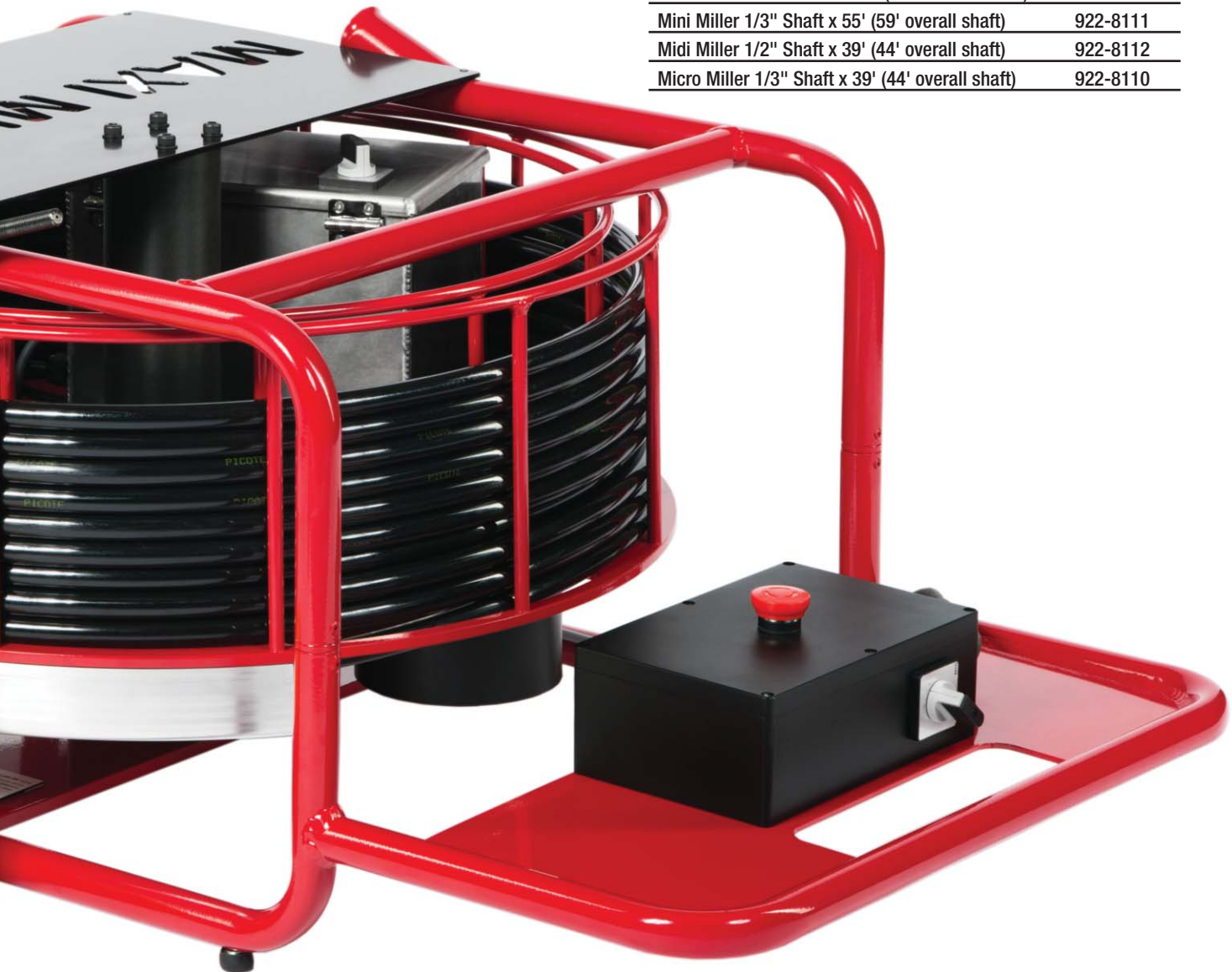
The most popular model, the Maxi-Miller is an efficient powerhouse that features a high-performing electric motor delivering the most torque downhole. This unit features a safety clutch and includes an impressive 110' of 1/2" cable and is suitable for drain cleaning, pipe cutting or powering the Smart Cutter and Twisters inside diameters 3.00–8.00". An adapter for 1/3" shaft is available for 2.00" drains. The Maxi-Miller has a push/pull system and glides for maneuvering stairs and includes a locking system that keeps the shaft steady during transportation.



Micro Miller

PICOTE MILLER SYSTEMS

Description	Part #
Maxi Miller 1/2" Shaft x 100' (110' overall shaft)	922-8113
Mini Miller 1/3" Shaft x 55' (59' overall shaft)	922-8111
Midi Miller 1/2" Shaft x 39' (44' overall shaft)	922-8112
Micro Miller 1/3" Shaft x 39' (44' overall shaft)	922-8110



Midi Miller



Mini Miller

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.

PICOTE MISCELLANEOUS PARTS AND ACCESSORIES

SHAFTS, CASINGS, SOCKETS AND CONNECTORS

Description	Part #
Shaft Socket, 1/2" with Bearing	922-8080
Shaft Socket, 1/3" with Bearing	922-8081
Shaft Socket, 1/4"	922-8082
Adapter, 1/2" Shaft to 1/3" Shaft	922-8085
Shaft Connector, 1/2" to 1/2"	922-8086
Shaft Connector, 1/3" to 1/3"	922-8155
Shaft, 1/2", 32'	922-8167
Shaft, 1/2", 50'	922-8168
Shaft, 1/2", 100'	922-8169
Shaft, Thick Casing, 1/2", 44' (For Miller Shaft Replacement Only)	922-8171
Shaft, Thick Casing, 1/2", 110' (For Miller Shaft Replacement Only)	922-8172
Shaft, 1/3", 32'	922-8173
Shaft, 1/3", 44' (For Miller Shaft Replacement Only)	922-8177
Shaft, 1/3", 59' (For Miller Shaft Replacement Only)	922-8178
Shaft, 1/4", 32'	922-8174
Outer Casing, 1/3" Shaft, 59'	922-8334
Outer Casing, 1/2" Shaft, 110'	922-8335

SLEEVES AND SLEEVE BEARINGS

Sleeve, 1/2"	922-8089
Sleeve, 1/2", Thick Casing, (For use on Millers Only)	922-8209
Bearing, 1/2" (Pkg of 10)	922-8090
Sleeve, 1/3"	922-8211
Bearing, 1/3" (Pkg of 10)	922-8087

HAND DRILLS

High RPM Hand Drill (For 1-32' cable lengths)	922-5431
High Torque Hand Drill (For 32-100' cable lengths)	922-5430



**922-8080,
Shaft Socket, 1/2" w/ Bearing**



**922-8085,
Adapter, 1/2" to 1/3"**



**922-8087,
Sleeve Bearing for 1/3" Shaft,
Outer Casing (Pkg of 10)**



**922-8089,
Sleeve, 1/2"**



**922-5431,
High RPM Hand Drill**



**922-8173,
Shaft, 1/3", 32'**

PICOTE MISCELLANEOUS PARTS AND ACCESSORIES

STEERING AXLE AND FINE TUNING TOOLS

Description	Part #
Steering Axle	922-8046
Steering Axle Bearing	922-8047
Light Counter Weight	922-8048
Heavy Counter Weight	922-8049
Steering Wire (328')	922-8050
Wire Hook, 1/2" Shaft	922-8051
Wire Hook, 1/3" Shaft	922-8052
Grabber	922-8317

TOOLS

Bearing Cleaner	922-8097
Pliers	922-8098
Cutter for Steering Wire	922-8099
Shaft Rounder	922-8100
Sheath Cutter 2	922-8101
Cutter for Side Grinding Panels	922-8103
Hex Key, 4 mm	922-8104
Hex Key, 3 mm	922-8105
Hex Key, 2.5 mm	922-8106
Combo Hex Key, 1-6 mm	922-8107
Screws, Each	922-8108
Wrench, 8 mm	922-8109

MILLER REPLACEMENT PARTS

Strain Relief Micro/Mini	922-8332
Strain Relief Midi/Maxi	922-8333

SET SCREWS

Screw, Set M5-0.08mm x 6mm	922-8368
Screw, Set M6-1.00mm x 6mm	922-8369
Screw, Set M6-1.00mm x 10mm	922-8371
Screw, Set M6-1.00mm x 12mm	922-8370
Screw, Set M8-1.25mm x 8mm	922-8372



**922-8046,
Steering Axle**



**922-8047,
Steering Axle Bearing**



**922-8048,
Light Counter Weight**



**922-8050,
Steering Wire (328')**



**922-8051,
Wire Hook, 1/2" Shaft**



**922-8098,
Pliers**



**922-8100,
Shaft Rounder**



**922-8101,
Sheath Cutter**



**922-8103,
Cutter for Side
Grinding Panels**



**922-8108,
Screws, Each**

PICOTE COATING SYSTEMS

QUICK, SIMPLE & PRACTICAL PIPE COATING SOLUTION FROM PICOTE.

The Picote Coating System is a simple, fast and practical coating system used for drain and sewer renovation. Coat unlined or lined pipes or connections from 1¼ – 6" with the Picote Coating Pump and Mini Miller combination.

Coat anything from a small area (such as a lined connection) to entire piping systems using a unique, world-class vegetable-oil based resin with strong bonding properties for cast iron, PVC, concrete or clay pipes.



922-8318,
Coating Pump shown with
Mini-Miller (922-8111)

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FACSIMILE: 920.648.1780 | EMAIL: info@hammerheadmole.com

PICOTE COATING SYSTEMS

PICOTE COATING SYSTEM

Description	Part #
Coating Pump (Requires Mini-Miller)	922-8318
Mini Miller 1/3" Shaft x 55' (59' overall shaft)	922-8111
Starter Kit (Smart Mixer and case of 6 cartridges)	922-8450
Smart Mixer	922-8453

RESINS, BRUSHES AND ACCESSORIES

Dual Epoxy Kit (Case of 6 cartridges, 12 lbs 5 oz)	922-8449
Coating Resin Supply Hose, 82' (25m)	922-8319
Coating Resin Delivery Hose, 82' (25m)	922-8320
Brush, 1.25" pipe (for 1/4" shaft)	922-8433
Brush, 1.25" pipe (for 1/3" shaft)	922-8321
Brush, 2.00" pipe (for 1/3" shaft)	922-8322
Brush, 3.00" pipe (for 1/3" shaft)	922-8323
Brush, 4.00" pipe (for 1/3" shaft)	922-8324
Brush, 6.00" pipe (for 1/3" shaft)	922-8325
Brush, 8.00" pipe (for 1/3" shaft)	922-8326
Hose Connector with Hose Clamps	922-8330
Hose Clamp, 13mm	922-8432
Hose Clamp, 10mm	922-8341



To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.

PORTAVISION® 2 CAMERA SYSTEM

**COMPACT &
VERSATILE
LATERAL
INSPECTION**



The iPad® easily removes from the PortaVision 2 unit, communicating with the unit via a Wi-Fi router, allowing the operator to roam freely away from the unit base.

PHONE: 800.331.6653 (USA only) | INTERNATIONAL: +1 920.648.4848
FACSIMILE: 920.648.1780 | EMAIL: info@hammerheadmole.com

PORTAVISION® 2 CAMERA SYSTEM

BORN AHEAD OF ITS TIME. THE SMARTEST TECHNOLOGY. UNRIVALED VERSATILITY. CUT-THROUGH CLARITY.

HammerHead® Trenchless puts the power of it all right at your fingertips. The PortaVision 2 pipe-inspection camera begins a new era of technology, with a retina-display iPad® as its screen, giving you amazing flexibility on and off the job site.

Plus, we've kept all the features you already love, like instant snapshots, on-screen drawing and a full on-screen keyboard. Even more, the PortaVision 2 system comes with a self-leveling color camera, locating beacon and 200' of high efficiency, super-slick push rod. All this packaged into a unit light enough to transport anywhere.

Description	Part #
PortaVision 2 iPad Camera System (includes Camera Center for 4.00" Pipe)	922-1050
PortaVision 2 Camera System (w/out iPad) (includes Camera Center for 4.00" Pipe)	922-1051

ACCESSORIES

AccuView Cam Locator	922-5669
50 foot B/W Mini Camera Reel (Trapeze)	922-1010
Camera Center for 2.00" Pipe	922-1012
Camera Center for 4.00" Pipe	922-1053
Camera Center for 6.00" Pipe	922-1013
iPad, PortaVision 2 Camera	922-1052

The PortaVision 2 only weighs 34 pounds, but we included a transport cart as standard, in case you'd rather wheel it around than carry it.



The optional 50' black and white mini-camera is an ultra-flexible camera that allows quick peeks into small drain lines — often without removing the trap — and easily connects to the PortaVision 2 camera system, which automatically senses when the camera has been attached.

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PORTAVISION® 3 CAMERA SYSTEM

TOUGH, RELIABLE & ECONOMICAL INSPECTION SOLUTION

One-touch Recording

The integrated On-Demand feature is a one-touch recording button that records seven hours of video and audio to the included USB drive so you can easily upload to YouTube® or email videos to customers.

Flexi-Guard Spring

The Flexi-Guard Spring protects the camera and provides flexibility to handle 90° turns in pipes as small as 3.00".

Large Hi-Res LCD Monitor

Inspect even the smallest of details on the large 10.40" LCD monitor with optimum viewing capabilities, night and day.

Rugged Frame Design

Navigate easily even in rugged terrain with large 10.00" off-road wheels and an ultra-strong but lightweight frame design that fits into tight spaces. Extremely easy to transport to and from the job site.

Clear View Camera Head

The self-leveling, Clear View camera provides a quality picture with crisp color images.

Premium Push Rod

Advanced fiberglass spiral wound push rod has been specifically designed for longer pushing distances in 2.00 to 12.00" pipe and is designed to last up to four times longer than major competitors.



ONE TOUCH RECORDING



FLEXI-GUARD SPRING



CAMERA

Size: 1.30" Diameter

Weight: 5.9 Ounces

Illumination: Hi-intensity LEDS

Image Sensitivity: 1 Lux

Light levels: Auto Iris adjust for varied light levels

Construction: Stainless Steel Body

Submersion: 52 PSI @ 150 feet



PORTAVISION® 3 CAMERA SYSTEM

PORTAVISION³

COMPLETE SYSTEM OPTIONS

Description	Part #
PortaVision 3, System Complete, 200' (Includes Remote Control, 200' Reel/Camera Head, 2.00" and 4.00–6.00" Centering Guides, AC and DC Power Supply Cords, Debris Cover)	922-8224
PortaVision 3, System Complete, 300' (Includes Remote Control, 300' Reel/Camera Head, 2.00" and 4.00–6.00" Centering Guides, AC and DC Power Supply Cords, Debris Cover)	922-8225
PortaVision 3, System Complete, 400' (Includes Remote Control, 400' Reel/Camera Head, 2.00" and 4.00–6.00" Centering Guides, AC and DC Power Supply Cords, Debris Cover)	922-8226

INDIVIDUAL COMPONENTS

Control Unit, PortaVision 3	922-8227
Stand Alone Reel, PortaVision 3, (200')	922-8228
Stand Alone Reel, PortaVision 3, (300')	922-8229
Stand Alone Reel, PortaVision 3, (400')	922-8230

REPLACEMENT PARTS AND ACCESSORIES

AccuView Cam Locator	922-5669
Centering Guide, (2.00–3.00" Pipe), PortaVision 3	922-8232
Centering Guide, (4.00–6.00" Pipe), PortaVision 3	922-8233
Centering Guide, (6.00–8.00" Pipe), PortaVision 3	922-8234
Camera Removal Tool, PortaVision 3	922-8231
Power Supply Cord, PortaVision 3	922-8235
Car Power Supply Cord, PortaVision 3	922-8236
Flexi Guard Spring, PortaVision 3	922-8237
Interconnect Extension Cable, PortaVision 3	922-8238
ClearView Camera Head, PortaVision 3	922-8239
Beacon, (512 Hz), PortaVision 3	922-8240

CONTROLLER/RECORDER

Recording Capacity: 8 GB
(via USB drive) or optional hard
disk drive.

Keyboard: Full QWERTY

Text Generator: Yes

Counter: Digital distance
counter display

Analog Video In/Out: Yes

Power: 15v @ 4 Amps



PUSH ROD/FRAME

Cable Length: (200, 300, &
400' options)

Frame: Vertical

Push Rod Dia.: 0.465–0.485"

Weight: 62 lbs. (w/200 ft.
cable)

Beacon: 512 HZ

Debris Cover: Standard

COMPLETE SYSTEM INCLUDES

Reel Mounted Accessory bag with operators manual,
camera removal tool, 2.00" and 4.00–6.00" centering
guides, power cord, remote control, AC and DC power
cords, debris cover and 8 GB USB stick (a \$295 value).

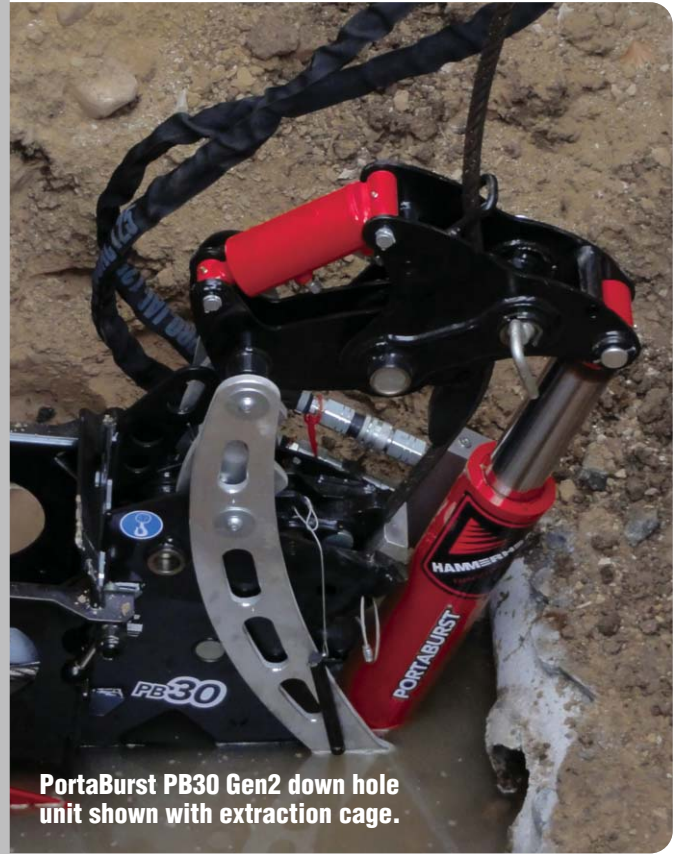
PORTABURST® PB30G2 PIPE BURSTING SYSTEM

RUGGED & POWERFUL, HIGH PROFIT TRENCHLESS

For your tough lateral pipe bursting jobs, you need two things from your bursting system – the power to get the job done quickly and the durability to be up and running burst after burst.

The rugged HammerHead PortaBurst PB30G2 replaces 2 to 6" lateral pipes with up to 30-tons of pulling force. Its compact footprint requires minimal excavation and the system is built to help you cut down on wasted time, maximizing productivity. Its user-friendly, modular design makes it easy to operate, easy to set up and easy to transport.

Plus, Quick Grip burst heads make it easy to securely connect new pipe without any hand tools. With efficiency like that, the PortaBurst PB30G2 is the ideal system for high-profit lateral replacement.



PortaBurst PB30 Gen2 down hole unit shown with extraction cage.

PORTABURST PB30 GEN2 PIPE BURSTING SYSTEM

Description	Part #
PortaBurst® PB30 Gen2 Pulling Unit	912-5045
Extraction Cage	912-3201

PORTABURST PB30 GEN2 REPLACEMENT PARTS

Stationary Jaw, PB30 G2, (one required)	912-5223
Shoe, PB30 G2, (two required)	912-4767

Pulling Cable, Swaged Cable, Stud End

PULLING CABLES

Description	Model	Part #
3/4" X 75 feet, Swaged, Stud End	All Models	912-3161
3/4" X 100 feet, Swaged, Stud End	All Models	912-3163
3/4" X 150 feet, Swaged, Stud End	All Models	912-3162

PORTABURST® PB30G2 PIPE BURSTING SYSTEM

COMPLETE SYSTEM OPTIONS

Description	Model	Part #
PortaPower 13 (13 HP Honda®) Includes onboard controls	All Models	912-6603
PortaPower 13 (A) (13 HP Honda) (requires Control Stand: 912-5052 or Coaster/ Control Stand: 912-3352)	All Models	912-6700
PP3000 (requires Control Stand: 912-5052 or Coaster/ Control Stand: 912-3352)	All Models	933-0100

CONTROL STATIONS

Control Stand	All Models	912-5052
Coaster/Control Stand	All Models	912-3352
Hose, 5/8" x 15 feet (required to run system from an alternative hydraulic power source, two required)	All Models	912-3056
Quick Connect Coupler, Flat Face, Nipple, 1/2" (M)	All Models	912-3038
Quick Connect Coupler, Flat Face, 1/2" (F)	All Models	912-3039



PortaPower 13
Power Pack



Control
Stand



Extraction
Cage



High-Flow
Coaster/Control Stand

To learn more about trenchless, visit our website at www.hammerheadtrenchless.com.
For ordering or pricing information, contact your regional sales representative or visit www.hammerheadshop.com.

PORTABURST LIGHTNING® PIPE BURSTING SYSTEM

MAXIMUM PERFORMANCE. EXCEPTIONAL PORTABILITY.

Bursting in close quarters calls for big power in a small package. The light-weight, easily-assembled PortaBurst Lightning is a four-component bursting system that gives you 30 tons of pulling force for highly productive 2- to 6-inch lateral replacement.

When replacing shallow laterals that require only a hand dug pit, you won't have equipment on hand to lift a heavy bursting system into place. Or when you're working in spaces with limited access, you can't afford to waste time struggling with set up. The modular aluminum construction makes it lightweight and easy to assemble/disassemble so maneuvering the unit is not an issue.

Each component weighs less than 70 pounds and the system's unique design simplifies setup and operation by giving you stand-up room to thread the jaws. Don't sacrifice power and performance for portability when you can have it all. Widen your margins, not your pits, with the PortaBurst Lightning.

SIGNATURE SUPPORT.

You need more than just a manufacturer for your trenchless operations – you need a partner. At HammerHead® Trenchless, it is our mission is to help you succeed on every job.

Our customer service is available 24/7, so you always get your answers when you need them. Our world-class, on-site training keeps your crews confident and efficient. And when your job calls for a custom solution, our team of industry experts is ready to help. At HammerHead Trenchless, the most important feature on all of our products is the signature support that comes with it.



PORTABURST LIGHTNING PIPE BURSTING SYSTEM

Description	Part #
PortaBurst Lightning Pulling Unit	912-5000
Extraction Cage	912-3201

LIGHTNING REPLACEMENT PARTS

Stationary Jaw, Lightning (1 required)	912-4541
Shoe, Lightning (1 required)	912-4767
Jaw, 3/4" Tapered, Lightning	912-4559



PP3000,
20 HP Power Pack

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PORTABURST LIGHTNING® PIPE BURSTING SYSTEM

COMPLETE SYSTEM OPTIONS

Description	Model	Part #
PortaPower 13 (13 HP Honda®) Includes onboard controls	All Models	912-6603
PortaPower 13 (A) (13 HP Honda) (requires Control Stand: 912-5052 or Coaster/ Control Stand: 912-3352)	All Models	912-6700
PP3000 (requires Control Stand: 912-5052 or Coaster/ Control Stand: 912-3352)	All Models	933-0100

CONTROL STATIONS

Control Stand	All Models	912-5052
Coaster/Control Stand	All Models	912-3352
Hose, 5/8" x 15 feet (required to run system from an alternative hydraulic power source, two required)	All Models	912-3056
Quick Connect Coupler, Flat Face, Nipple, 1/2" (M)	All Models	912-3038
Quick Connect Coupler, Flat Face, 1/2" (F)	All Models	912-3039

PULLING CABLES

3/4" X 75 feet, Swaged, Stud End	All Models	912-3161
3/4" X 100 feet, Swaged, Stud End	All Models	912-3163
3/4" X 150 feet, Swaged, Stud End	All Models	912-3162



PortaPower 13
Power Pack



Control
Stand



Extraction
Cage



High-Flow
Coaster/Control Stand

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TOOLING SELECTION CHART

HOW TO USE THESE CHARTS

Match the host pipe size and material with the new HDPE pipe size being installed to find the tooling string reference. Use the tooling string reference chart to identify the tooling string required for the project specified.

TOOLING SELECTION (SAE)						
Host Pipe		New HDPE Pipe Size (in)				
Size (in)	Material	2" IPS	3" IPS	4" IPS	4" DIPS	6" IPS
2.00	Steel	A	B			
2.00	Copper	A	B			
2.00	PVC	C	C1			
2.00	HDPE	C	C1			
3.00	Clay		C1*	D*	E*	
3.00	Concrete		C1*	D*	E*	
3.00	Orangeburg		C1*	D*	E*	
3.00	Cast Iron		C1*	D*	E*	
3.00	AC		C1*	D*	E*	
3.00	Steel					
3.00	Copper					
3.00	PVC			D	E	
3.00	HDPE			D	E	
4.00	Clay			F	G	I
4.00	Concrete			F	G	I
4.00	Orangeburg			F	G	I
4.00	Cast Iron			D	E	H
4.00	Fiberglass			F	G	I
4.00	AC			F	G	I
4.00	Steel					
4.00	Copper					
4.00	PVC			D	E	
4.00	HDPE			D	E	
6.00	Clay					I
6.00	Concrete					I
6.00	Orangeburg					I
6.00	Cast Iron					I
6.00	Fiberglass					I
6.00	AC					I
6.00	Steel					
6.00	Copper					
6.00	PVC					
6.00	HDPE					

TOOLING STRING TABLE REFERENCE (SAE)			
Ref	Slitter	Puller	QG Burst Head
A	912-3363	902-2400	
B	912-3363	902-2600	
C	912-3377	902-2400	
C1	912-3377	902-2600	
D	912-3370		911-3074
E	912-3370		911-3078
F			911-3074
G			911-3078
H	912-3370		911-3076
I			911-3076

TOOLING SELECTION (METRIC)				
Host Pipe		New HDPE Pipe Size (mm)		
Size (mm)	Material	110	125	160
110	Clay	L	M	O
110	Concrete	L	M	O
110	Orangeburg	L	M	O
110	Cast Iron	J	K	N
110	Fiberglass	L	M	O
110	AC	L	M	O
110	Steel			
110	Copper			
110	PVC	J	K	
110	HDPE	J	K	
125	Clay	L	M	O
125	Concrete	L	M	O
125	Orangeburg	L	M	O
125	Cast Iron	J	K	N
125	Fiberglass	L	M	O
125	AC	L	M	O
125	Steel			
125	Copper			
125	PVC	J	K	
125	HDPE	J	K	
160	Clay			O
160	Concrete			O
160	Orangeburg			O
160	Cast Iron			O
160	Fiberglass			O
160	AC			O
160	Steel			
160	Copper			
160	PVC			
160	HDPE			

TOOLING STRING TABLE REFERENCE (METRIC)			
Ref	Slitter	Puller	QG Burst Head
J	912-3370		911-3077
K	912-3370		911-3078
L			911-3077
M			911-3078
N	912-3370		911-3079
O			911-3079

The tooling configuration recommendations listed here are relevant only to current factory equipment availability. Any projects outside of these recommendations require factory review and/or specialized tooling.

*The slitter blade design is intended for PVC and HDPE applications. Dulling of the blade will occur when used in these applications.

QUICK GRIP® BURST HEADS

Description	Part #
Quick Grip Burst Head, 4.00", SDR 11-26, (Stud Collar)	911-3074
Quick Grip Burst Head, 4.00", SDR 11-17, (Stud Collar) DIPS ONLY	911-3078
Quick Grip Burst Head, 6.00", SDR 11-26, (Stud Collar)	911-3076
Quick Grip Burst Head, 110 mm, SDR 11-26, (Stud Collar)	911-3077
Quick Grip Burst Head, 125 mm, SDR 11-26, (Stud Collar)	911-3078
Quick Grip Burst Head, 160 mm, SDR 11-26, (Stud Collar)	911-3079
Quick Grip Burst Head, 4.00", SDR 11-26, (Stud Collar) (Piggyback Style)	911-3110
Quick Grip Burst Head, 6.00", SDR 11-26, (Stud Collar) (Piggyback Style)	911-3111

QUICK GRIP BURST HEAD WEAR ITEMS

O-Rings, 4" Quick Grip Burst Head (2 required)	902-0318
O-Rings, 110 mm Quick Grip Burst Head (2 required)	902-0318
O-Rings, 125 mm Quick Grip Burst Head (2 required)	902-0409
O-Rings, 6" Quick Grip Burst Head (3 required)	902-0506
O-Rings, 160 mm Quick Grip Burst Head (3 required)	902-0506

**Quick Grip Burst
Head (Stud Collar)**

**Piggy Back Style
Quick Grip Burst Head
(Stud Collar)**



**Quick Grip burst heads connect
to pipe without hand tools and
can negotiate up to 45° bends.**

LATERAL BURSTING ACCESSORIES AND TOOLING

Description	Part #
Cast Iron and PVC Slitter Head Assembly (Used in front of Quick Grip Burst Head)	912-3370
Slitter, 2.00–3.00"	912-3377
Sleeved Puller, HDPE, 2.00"	902-2400
Sleeved Puller, HDPE, 3.00"	902-2600
Pipe Puller, 4.00", Segmented	911-5004
Pipe Puller, 6.00", Segmented	911-5006
Slitter Assembly, 2.00", Galvanized	912-3363
Stud End to Eye End Adapter	911-3080



**Sleeved Puller,
HDPE, 2.00"**



**Sleeved Puller,
HDPE, 3.00"**



**Cast Iron and PVC
Slitter Head Assembly**



**Stud End to
Eye End Adapter**



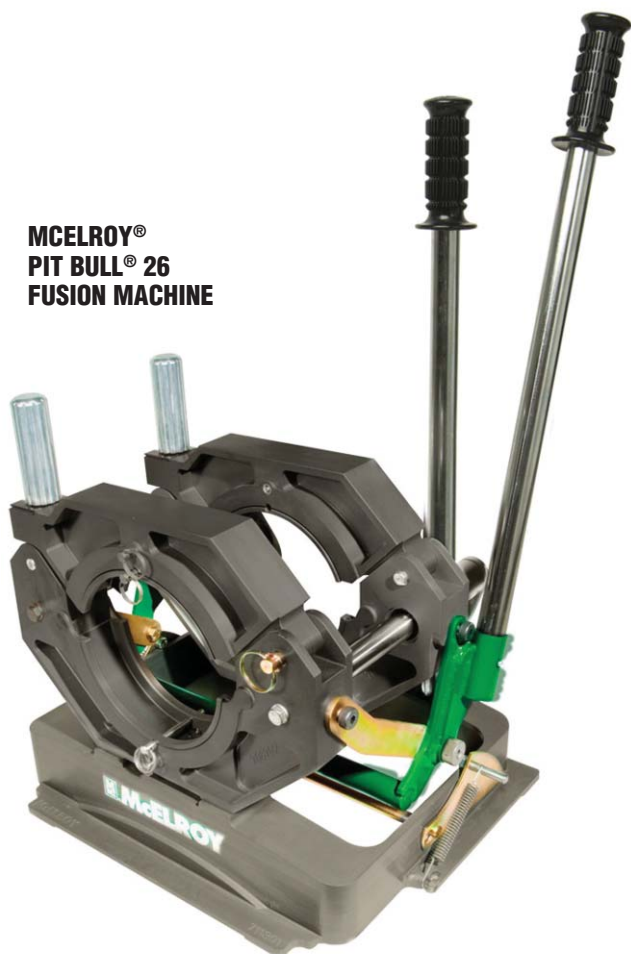
**Slitter Assembly for 2.00" Galvanized
Pipe (requires sleeved puller not included in kit)**



**Pipe Puller, 4.00", Segmented
(For pulling PVC pipe, includes 75' chain)**

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MCELROY® PIT BULL® 26 FUSION MACHINE



MCELROY PIT BULL 26 FUSION MACHINE

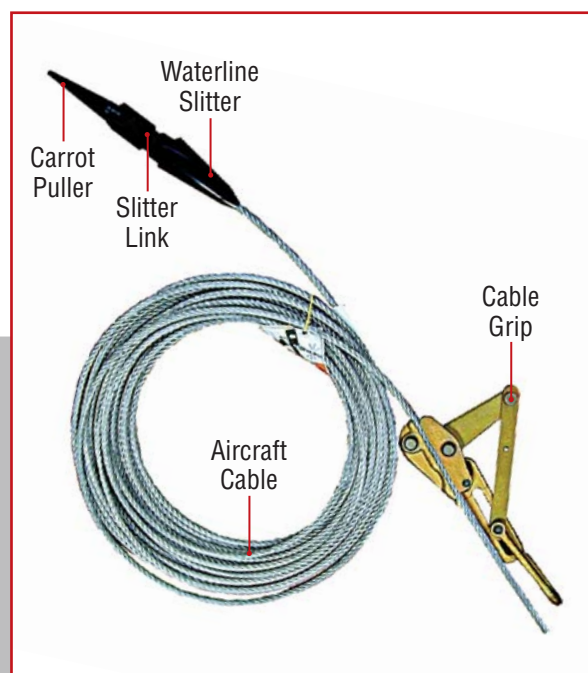
The Pit Bull 26 fuses pipe sizes from 2.00" IPS to 6.00" DIPS and 63 to 180 mm. The 26 offers a patented centerline guidance system, a semi-automatic locking cam system that maintains force during the cooling cycle, and the ability to fit on the manual fusion stand accessory.

MCELROY PIT BULL 14 FUSION MACHINE

The McElroy Pit Bull 14 fuses 1.00" IPS to 4.00" DIPS (32 to 110 mm) pipe. It is a compact, lightweight, highly reliable and rugged machine. The machine incorporates a patented centerline guidance system, and is designed to butt fuse tees, ells, and other fittings with consistent high-quality results. The machine's semi-automatic locking cam system maintains force during the cooling cycle.

Description	Part #
Pit Bull 26, Fusion Machine Package (Includes: Pit Bull 26 Fusion Machine, Butt Plate Heater Assy, Facer Assy, Facer Stand and the following inserts; 4.00" IPS, 6.00" IPS, 6.00" DIPS)	912-5200
Pit Bull 14, Fusion Machine Package (Includes: Pit Bull 14 Fusion Machine, Butt Plate Heater Assy, Facer Assy, Facer Stand and the following inserts; 4.00" IPS and 4.00" DIPS)	912-5210
Pit Bull 14, Inserts, 2.00" IPS	912-5217
Pit Bull 14, Inserts, 3.00" IPS	912-5218

WATER LINE SLITTER SYSTEM



TRENCHLESS REPLACEMENT OF WATER SERVICES

Waterline slitters are a profitable trenchless solution for water line service replacement. The Waterline Slitter water service replacement system is a portable, cost effective and efficient method of replacing 0.75–1.00" service pipes in a minimum amount of time while eliminating costly excavation and surface repair.

Description	Part #
Water Line Slitter Kit, 1.00", 75' Cable	912-1500
Water Line Slitter Kit, 1.00", 100' Cable	912-1512

WATERLINE SLITTER PARTS AND ACCESSORIES

Water Line Slitter, 1.00"	912-1501
Slitter Link Assembly	912-1509
Screw, SHC 3/8-16 x 1.50"	06SH24
Link, Slitter	912-1504
0.50–1.00" Carrot Puller	901-0102
1.00–1.25" Carrot Puller	901-0122
Cable Grip	912-1505

CABLE OPTIONS

Aircraft Cable 3/8" x 75'	912-1502
Aircraft Cable 3/8" x 100'	912-1507

KITS INCLUDE: 1.00" Water Line Slitter, 3/8" Aircraft Cable, Cable Grip, Slitter Link and 0.50–1.00" Carrot Puller



TOUGH. TRUSTED.
TRENCHLESS.

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Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured.
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A CHARLES MACHINE WORKS COMPANY