



SOUTHLAND TOOL MFG. INC.



Building Innovative Tools for Municipalities



PRODUCT CATALOG 2023 v16

Southland Tool Mfg. Inc.

SEWER EQUIPMENT GUIDE

PUMA Sewer Cleaning and Inspection Equipment



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"ST-PRO CAM" JET CAMERA NOZZLE

Introducing the **ST-PRO CAM**. First Sewer Camera Nozzle that fits every budget. Good for 6" and up! **Self-Leveling**. Now every jetter can have one, full time! Easy to use and easy on the budget.

New Product



SUPERIOR ILLUMINATION AND SELF-LEVELING

Check out these INCLUDED Features:

- Self leveling  11 CAMERA. Hi-Tech Stabilized
- Stainless Steel camera enclosure and dry suit camera case
- 6" to 8" adjustable skids and Nylon wheels (available to 18")
- Mini Sdi Card and Card reader, App readable
- Rear 1" thrust nozzle with 8 jets (plugs included for lower gpm.)
- 3 adjustable 1600 lumen LED Flashlights, 3 extra Rechargeable batteries included
- 3 hour run time, Wi-Fi integrated wireless downloadable to phone app



ST-PRO-1 STANDARD COMPLETE KIT

- ST-10-12 SKID SET FOR 10"-12" PIPE SIZE
- ST-15-18 SKID SET FOR 15"-18" PIPE SIZE
- SN-3/4 3/4" REAR NOZZLE
- SN-1/2 1/2" REAR NOZZLE SEWER
- SRA-1 ROD ADAPTER
- FPA-1 FIBERGLASS POLE ADAPTER

(No Need for Jetter. Just Push in Rods)
(Camera Case Not Included)



PUMA TOOLS

DEBRIS BASKETS, CATCHERS, SCOOPS, GRABBERS

FLAT TRAPS FOR SKIMMING ALONG FLAT AREAS

- FT-6** FLAT TRAP BASKET 6" WIDE X 6" HIGH FOR QUICK CONNECT FIBER GLASS POLES
- FT-8** FLAT TRAP BASKET 8" WIDE X 6" HIGH FOR QUICK CONNECT FIBER GLASS POLES
- FT-10** FLAT TRAP BASKET 10" WIDE X 8" HIGH FOR QUICK CONNECT FIBER GLASS POLES
- FT-12** FLAT TRAP BASKET 12" WIDE X 8" HIGH FOR QUICK CONNECT FIBER GLASS POLES
- FT-15** FLAT TRAP BASKET 15" WIDE X 8" HIGH FOR QUICK CONNECT FIBER GLASS POLES

DEBRIS BASKETS TO USE WITH FIBERGLASS POLE

- DB-6** DEBRIS BASKET 6" FOR QUICK CONNECT FIBERGLASS POLES
- DB-8** DEBRIS BASKET 8" FOR QUICK CONNECT FIBERGLASS POLES
- DB-10** DEBRIS BASKET 10" FOR QUICK CONNECT FIBERGLASS POLES
- DB-12** DEBRIS BASKET 12" FOR QUICK CONNECT FIBERGLASS POLES
- DB-15** DEBRIS BASKET 15" FOR QUICK CONNECT FIBERGLASS POLES
- DB-18** DEBRIS BASKET 18" FOR QUICK CONNECT FIBERGLASS POLES

LARGER CUSTOM SIZES AVAILABLE UPON REQUEST - CALL IN FOR PRICING

DEBRIS GRIT CATCHERS TO USE WITH FIBERGLASS POLES

- DB-6S** DEBRIS GRIT CATCHER 6" FOR QUICK CONNECT FIBERGLASS POLES
- DB-8S** DEBRIS GRIT CATCHER 8" FOR QUICK CONNECT FIBERGLASS POLES
- DB-10S** DEBRIS GRIT CATCHER 10" FOR QUICK CONNECT FIBERGLASS POLES
- DB-12S** DEBRIS GRIT CATCHER 12" FOR QUICK CONNECT FIBERGLASS POLES
- DB-15S** DEBRIS GRIT CATCHER 15" FOR QUICK CONNECT FIBERGLASS POLES
- DB-18S** DEBRIS GRIT CATCHER 18" FOR QUICK CONNECT FIBERGLASS POLES

LARGER CUSTOM SIZES AVAILABLE UPON REQUEST - CALL IN FOR PRICING

*****Includes Solid Half Bottom And Back To Catch The Grit*****

DEBRIS BASKET WITH 25' ROPE

- DBR-6** DEBRIS BASKET 6" WITH ROPE
- DBR-8** DEBRIS BASKET 8" WITH ROPE
- DBR-10** DEBRIS BASKET 10" WITH ROPE
- DBR-12** DEBRIS BASKET 12" WITH ROPE
- DBR-15** DEBRIS BASKET 15" WITH ROPE
- DBR-18** DEBRIS BASKET 18" WITH ROPE



LARGER CUSTOM SIZES AVAILABLE UPON REQUEST - CALL IN FOR PRICING

**All tools come standard with Quick-Connect Male Ends.
Threaded ends or Cues end available, see below**

To use CUES POLES with the above BASKETS - ADD "C" after the part # (i.e. DB-6C) - Add \$15.00

To use Threaded Poles with the above BASKETS - ADD "T" after the part # (i.e. DB-6T) -Add \$15.00



STEEL DEBRIS GRIT CATCHER WITH 25' ROPE

- DBR-6S** DEBRIS GRIT CATCHER 6" WITH ROPE
- DBR-8S** DEBRIS GRIT CATCHER 8" WITH ROPE
- DBR-10S** DEBRIS GRIT CATCHER 10" WITH ROPE
- DBR-12S** DEBRIS GRIT CATCHER 12" WITH ROPE
- DBR-15S** DEBRIS GRIT CATCHER 15" WITH ROPE
- DBR-18S** DEBRIS GRIT CATCHER 18" WITH ROPE



LARGER CUSTOM SIZES AVAILABLE UPON REQUEST - CALL IN FOR PRICING

*****Includes Solid Half Bottom And Back To Catch The Grit*****

ALUMINUM DEBRIS TRAPS, LIGHT AND NON-CORROSIVE ALUMINUM

- ADT-6** 6" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES
- ADT-8** 8" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES
- ADT-10** 10" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES
- ADT-12** 12" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES
- ADT-15** 15" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES
- ADT-18** 18" ALUMINUM DEBRIS/SAND TRAP FOR USE WITH FIBERGLASS POLES

Also Available with 25' Rope



SCOOPA-STRONG HEAVY DUTY MADE TO FIT IN SEWER INVERT TO CATCH DEBRIS, ZINC PLATED

With Rope

- SC-4** 4" SCOOPA FOR FIBERGLASS POLES
- SC-6** 6" SCOOPA FOR FIBERGLASS POLES
- SC-8** 8" SCOOPA FOR FIBERGLASS POLES
- SC-10** 10" SCOOPA FOR FIBERGLASS POLES
- SC-12** 12" SCOOPA FOR FIBERGLASS POLES



SCOOPA SCREENS KEEPS DEBRIS FLOW FROM SPILLING OVER BACK OF TOOL. GOOD FOR CATCHING ROOTS. ZINC PLATED

- SCCS-6** 6" SCOOPA SCREEN FOR FIBERGLASS POLES
- SCCS-8** 8" SCOOPA SCREEN FOR FIBERGLASS POLES
- SCCS-10** 10" SCOOPA SCREEN FOR FIBERGLASS POLES
- SCCS-12** 12" SCOOPA SCREEN FOR FIBERGLASS POLES



SCOOPA FULL FLOW SCREENS, ZINC PLATED

- SCP-6** 6" FULLY PERFORATED SCOOPA SCREEN FOR FIBERGLASS POLES
- SCP-8** 8" FULLY PERFORATED SCOOPA SCREEN FOR FIBERGLASS POLES
- SCP-10** 10" FULLY PERFORATED SCOOPA SCREEN FOR FIBERGLASS POLES
- SCP-12** 12" FULLY PERFORATED SCOOPA SCREEN FOR FIBERGLASS POLES



Cues

Threaded



All tools come standard with Quick-Connect Male Ends. Threaded ends or Cues end available, see below

To use CUES POLES with the above BASKETS - ADD "C" after the part # (i.e. DB-6C) - Add \$15.00

To use Threaded Poles with the above BASKETS - ADD "T" after the part # (i.e. DB-6T) -Add \$15.00

GREASE LOG CHOPPER

LC-9 6" CURVED CHOPPER FOR FIBERGLASS POLES. GREASE LOG CHOPPER NOW WITH CURVED SIDE TO BETTER PUSH MATERIAL. THESE CHOPPERS ARE VERY SHARP AND CAN CHOP UP WOOD AND GREASE OR MUD OR ANYTHING YOU WANT. ZINC PLATED



LC-9

SPOONS

PS-1 9" DIA. ROUNDED CATCH BASIN SPOON. CONNECTS TO ALL OUR POLES THIS IS A 9" DIAMETER STEEL SPOON THAT WILL SCOOP OUT LARGER AMOUNTS OF MUC AND DEBRIS. FITS ANY LENGTHS OF FIBERGLASS POLES. ALSO USED ON OUR WOOD HANDLED SEWER SPOONS, ZINC PLATED



PS-1

WSS-1 9" DIA. WESTERN STYLE SPOONS ARE GREAT WITH NICE STRONG BENT ANGLED FLAT PART AND TURNED UP EDGES THAT IS IDEAL FOR CLEANING OUT THOSE HARD TO GET AREAS. ALSO USED ON OUR WOOD HANDLE SPOONS (SEE PAGE 9) ZINC PLATED



WSS-1

SHOVELS

SIS-1 INVERT SHOVEL ATTACHMENT - ATTACHES TO ALL OUR POLE SYSTEMS, GREAT FOR DIGGING, MOVING DEBRIS IN INVERTS. NICE ROUNDED SIDE MAKES IT PERFECT TO FIT IN AN 8" INVERT. BLACK STEEL.



SIS-1

FS-IT FLAT SHOVEL ATTACHMENT - ATTACHES TO ALL OUR POLE SYSTEMS THIS FLAT SHOVEL IS GREAT FOR SCRAPING WELL SIDES AND CHIPPING UP FLOATING DEBRIS. BLACK STEEL.



FS-IT

CS-IT SPADE ROUNDED SHOVEL. FOR USE WITH FIBERGLASS POLES, GOOD ALL AROUND SHOVEL. WORKS WELL IN AREAS WHERE YOU NEED TO SLIDE AND PUNCTURE DEBRIS. BLACK STEEL.



CS-IT

SEWER MAGNET

SMAG-1 SEWER MAGNET, 100LB CAPACITY, AN OVERALL METAL RETRIEVER. GREAT TOOL FOR RETRIEVING THAT LOST TOOL, CAN LIFT VALVE. COVERS COMES WITH STEEL PROTECTIVE PLATE TO PROTECT MAGNET. ZINC PLATED.



All tools come standard with Quick-Connect Male Ends. Threaded ends or Cues end available, see below

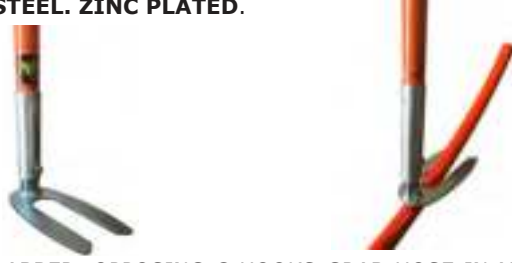
To use CUES POLES with the above BASKETS - ADD "C" after the part # (i.e. DB-6C) - Add \$15.00

To use Threaded Poles with the above BASKETS - ADD "T" after the part # (i.e. DB-6T) -Add \$15.00



SEWER HOSE GRABBERS

HG-1 8" WIDE IMPROVED HOSE GRABBER FOR FIBERGLASS POLES, ANGLE ENDS TO ALLOW EASY ENTRY FOR HOSE. THIS TOOL IS GREAT FOR PUSHING DOWN ON THE HOSE AS THE NOZZLE COMES OUT OF LINE. KEEPS IT HORIZONTAL. ¼" THICK STEEL. ZINC PLATED.



SHT-1 7" WIDE OPPOSITE HOSE GRABBER, OPPOSING C HOOKS GRAB HOSE IN MIDDLE AND TWIST FOR EASY GRABBING. ALLOWS YOU TO MOVE THE HOSE FROM SIDE TO SIDE OR PUSH ON IT IN ANY DIRECTION. MADE OF STRONG ¾" SPRING STEEL, ZINC PLATED.



DEBRIS GRABBERS, HOOKS, CLAWS, SHOVELS, SPOONS

MAGNETS 4 PRONGED DEBRIS GRABBER

4PG-1 8" WIDE 4 PRONGED DEBRIS GRABBER – PULLS OUT ROOTS, ROCKS, CANS AND OTHER DEBRIS FROM MANHOLE. ZINC PLATED



3 PRONGED DEBRIS GRABBER

3PG-1 6" WIDE 3 PRONGED DEBRIS GRABBER. SAME AS ABOVE BUT 3 PRONGS. EACH PRONG IS MADE OF STRONG SPRING STEEL. THESE ARE SHARP AND WILL PUNCTURE A CAN OR GRAB FIBROUS ROOTS. ZINC PLATED



RAKE

BITZ-R 12" LONG BITZ RAKE. GREAT FOR GETTING MATERIAL OUT OF INVERTS AND CAN BE INSERTED INTO PIPE FOR CATCHING HANGING MATERIAL. ZINC PLATED



SR4-1 4 PRONGED 90° RAKE. GREAT FOR GRABBING ROOTS FROM SEWER OR STORM DRAINS FITS OUR FIBERGLASS POLES AND IS MADE OF HARD SPRING STEEL WITH SHARPENED, POINTED ENDS. ZINC DIPPED FOR CORROSION RESISTANCE.

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CAMERA HOOKS

New design

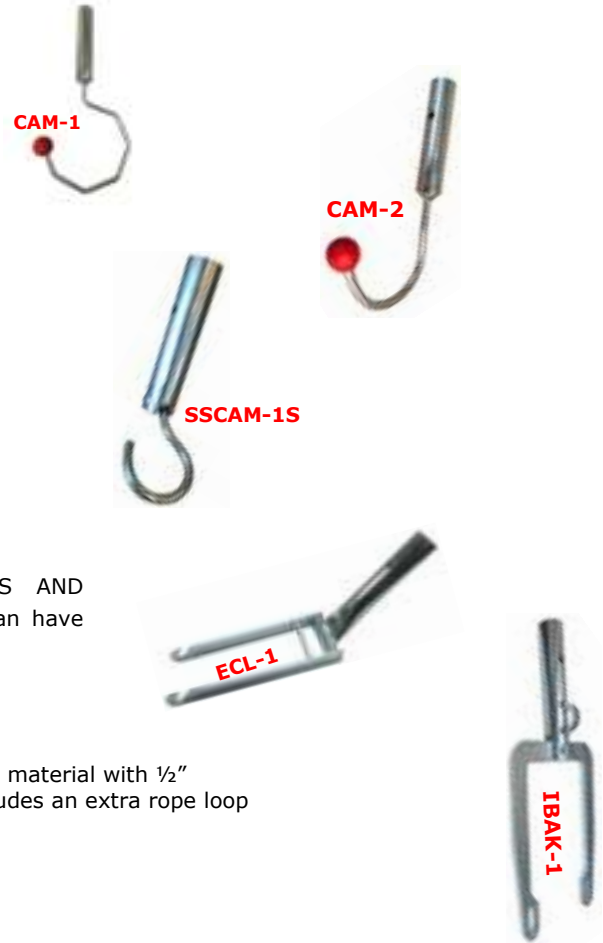
CAM-1 CAMERA HEX HOOK. TESTED TO 200 LBS

CAM-2 SMALL DIAMETER CAMERA GAFFING HOOK 3"
Made of strong spring steel and cold bent to the right hook design.
Connects to our fiberglass poles. Red ball on end is removable. Zinc Plated

SSCAM-1S 2" SIDE TO SIDE CAMERA SWIVEL HOOK.
Easy to turn to get around harness or bridel this camera hook articulates so you can get the hook into any position you want by moving and turning your pole.

ECL-1 ENVIROTYPE CAMERA LIFTING HOOK WITH SIDE PICK UP BARS AND POLE ADAPTER. This will lift your envirosight camera easily. Now you can have more control when grabbing this type of rover camera. Zinc Plated

IBAK-1 IBAK SEWER CAMERA LIFT TOOL
This hook fits our standard quick connect poles. It is laser cut of 5/16" thick material with 1/2" swivel bolt to easily lift your crawler. Tested to 300 lbs. lifting capacity. includes an extra rope loop for added security for your investment.



PIKE POLE ATTACHMENT

PP-125 PIKE POLE ATTACHMENT FOR POLES. Tough like firefighters the pike pole attachment is made of cast steel. Painted Black



AW-1 ADJUSTABLE HYDRANT WRENCH (STEEL HANDLE, CAST IRON HEAD)



SPH-5 SPEARHEAD FOR POLES - MADE OF MACHINED STEEL AND HARDENED. THIS ATTACHEMENT TURNS YOUR FIBERGLASS POLE INTO A JABBING, PIERCING AND BREAKING TOOL



All tools come standard with Quick-Connect Male Ends. Threaded ends or Cues end available, see below

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To use Threaded Poles with the above BASKETS - ADD "T" after the part # (i.e. DB-6T) -Add \$15.00



CLAW TELESCOPIC POLE GRABBERS

BEST TOOL FOR FISHING/EXTRACTING VERTICALLY

GWCT-12 6' - 12' TELESCOPIC FIBERGLASS POLE LONG GRABBER WITH SPRING LOADED CLAW ACTION

GWCT-16 8' - 16' TELESCOPIC FIBERGLASS POLE LONG GRABBER WITH SPRING LOADED CLAW ACTION

GWCT-24 8' - 24' TELESCOPIC FIBERGLASS POLE LONG GRABBER WITH SPRING LOADED CLAW ACTION



GRABBER HEAD ATTACHMENT CLAW

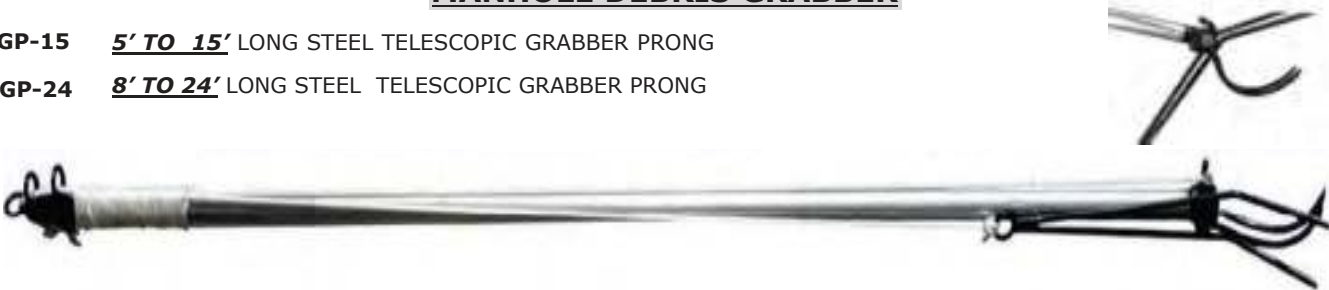
CRW-1 CLAW FOR ATTACHING TO POLES. INCLUDES CLAW, ROPE PVC STAY, ONE-WAY CLEAT, HARDWARE AND ALL YOU NEED TO CONNECT TO OUR FIBERGLASS POLES. EXTENDS TO 24' OR MORE DEPENDING ON THE LENGTH YOU NEED. JUST ADD MORE POLES



MANHOLE DEBRIS GRABBER

SGP-15 5' TO 15' LONG STEEL TELESCOPIC GRABBER PRONG

SGP-24 8' TO 24' LONG STEEL TELESCOPIC GRABBER PRONG



POLE INSPECTION MIRRORS

ALL COME WITH MALE QUICK CONNECT END TO FIT OUR POLES

IMR-1 4" X 6" SEWER MIRROR COMPLETE WITH PADDED COVER WITH VELCRO

IMR-2 6" X 6" SEWER MIRROR COMPLETE WITH PADDED COVER WITH VELCRO

IMR-3 8" X 10" SEWER MIRROR COMPLETE WITH PADDED COVER WITH VELCRO



HANDI-CLAMS ONE PIECE OR KNOCKDOWN MODELS - 12" -16" BUCKETS

The HANDI-CLAM is one of the most popular tools on the market for sewer/catch basin/pit cleaning. The lower end has 2 clam shell shaped buckets that are actuated by the top handle and close tight when you lock the handle. The big advantage is that we make these knockdown models so you do not have to pay high truck freight rates for a HANDI-CLAM over 8ft long. So when you buy a 12' clam it comes in two sections that are easily put together by the enclosed instructions. Plus you can use the clam as a 6 footer or 12 footer.

- SHC-6** 6' LONG HANDY CLAM WITH SMALL 12" BUCKET (ONE PIECE)
- SHC-8** 8' LONG HANDY CLAM WITH SMALL 12" BUCKET (TWO PIECE)
- SHC-10** 10' LONG HANDY CLAM WITH SMALL 12" BUCKET (TWO PIECE)
- SHC-12** 12' LONG HANDY CLAM WITH SMALL 12" BUCKET (TWO PIECE)
- SHC-16** 16' LONG HANDY CLAM WITH SMALL 12" BUCKET (THREE PIECES)
- SHC-18** 18' LONG HANDY CLAM WITH SMALL 12" BUCKET (THREE PIECES)
- SHC-20** 20' LONG HANDY CLAM WITH SMALL 12" BUCKET (FOUR PIECES)
- SHC-25** 25' LONG HANDY CLAM WITH SMALL 12" BUCKET (FOUR PIECES)
- SHC-EX 1"** HANDY CLAM EXTENSION (Sold Per Foot)



ALSO AVAILABLE WITH 16" BUCKET. ADD "6" TO PART NUMBER AND THE PRICE IS THE SAME.

These can be ordered in a one piece configuration also. (EXPENSIVE TO SHIP OVER 8') and you must specify at time of order that you want a single piece clam. Extra packing and shipping charges apply for truck shipments.

INVERT SHOVEL WITH 1.5" WOOD POLE

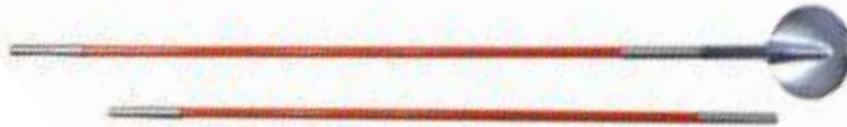
- SIS-6** **6'** INVERT SHOVEL WITH WOOD POLE (**1 PIECE**)
- SIS-8** **8'** INVERT SHOVEL WITH WOOD POLE (**1 PIECE**)
- SIS-102** **10'** INVERT SHOVEL WITH WOOD POLE (**2 PIECE, 2ea. 5ft**)
- SIS-122** **12'** INVERT SHOVEL WITH WOOD POLE (**2 PIECE, 2ea. 6ft**)
- SIS-162** **16'** INVERT SHOVEL WITH WOOD POLE (**2 PIECE, 2ea. 8ft**)
- SIS-183** **18'** INVERT SHOVEL WITH WOOD POLE (**3 PIECE, 3ea. 6ft**)
- SIS-203** **20'** INVERT SHOVEL WITH WOOD POLE (**3 PIECE, 2ea. 7ft & 1ea. 6ft**)



2 PIECE CONNECTION

CATCH BASIN SPOONS WITH FIBERGLASS POLES

- FS-6** **6'** CATCH BASIN SPOON WITH **ONE 6'** FIBERGLASS POLE
- FS-12** **12'** CATCH BASIN SPOON WITH **TWO 6'** FIBERGLASS POLES
- FS-18** **18'** CATCH BASIN SPOON WITH **THREE 6'** FIBERGLASS POLES



CATCH BASIN SPOONS WITH 1.5" WOOD POLE

- PS-6** **6'** CATCH BASIN SPOON WITH WOOD POLE (**1 PIECE**)
- PS-8** **8'** CATCH BASIN SPOON WITH WOOD POLE (**1 PIECE**)
- PS-102** **10'** CATCH BASIN SPOON WITH WOOD POLE (**2 PIECE, 2ea. 5ft**)
- PS-122** **12'** CATCH BASIN SPOON WITH WOOD POLE (**2 PIECE, 2ea. 6ft**)
- PS-162** **16'** CATCH BASIN SPOON WITH WOOD POLE (**2 PIECE, 2ea. 8ft**)
- PS-183** **18'** CATCH BASIN SPOON WITH WOOD POLE (**3 PIECE, 3ea. 6ft**)
- PS-203** **20'** CATCH BASIN SPOON WITH WOOD POLE (**3 PIECE, 2ea. 7ft & 1ea. 6ft**)

**STRONG STEEL SPOONS
HD. ASH WOOD HANDLES**



OSH STYLE "WESTERN PATTERN" SPOONS WITH 1.5" WOOD HANDLE

- PS-60S** **6'** WESTERN PADDLE SPOON WITH POLE (**1 PIECE**)
- PS-80S** **8'** WESTERN PADDLE SPOON WITH POLE (**1 PIECE**)
- PS-1020S** **10'** WESTERN PADDLE SPOON WITH POLE (**2 PIECE, 2ea. 5ft**)
- PS-1220S** **12'** WESTERN PADDLE SPOON WITH POLE (**2 PIECE, 2ea. 6ft**)
- PS-1620S** **16'** WESTERN PADDLE SPOON WITH POLE (**2 PIECE, 2ea. 8ft**)
- PS-1820S** **18'** WESTERN PADDLE SPOON WITH POLE (**2 PIECE, 2ea. 9ft**)



REAR DOOR POLE CARRIERS

- FPB-4** **4 PIECE** FIBERGLASS POLE BRACKET. Comes with bottom pegged rest and two brackets with tight stays to keep poles steady. All Aluminum Mounts to back door
- FPB-6** **6 PIECE** FIBERGLASS POLE BRACKET. Comes with bottom pegged rest and two brackets with tight stays to keep poles steady. All Aluminum Mounts to back door



SINGLE POLE CARRIERS

- SDS-1** HIGH QUALITY CAST DESIGN FOR CARRYING A SINGLE POLE. One side is a closed circle.
- SDS-2** DOUBLE CARRIER WITH RUBBER GASKET TO PROTECT THE POLE. The other side is an open half-moon with a pull-tight and locking rubber strap to keep poles in place.



FIBERGLASS POLE SETS

FIBERGLASS POLES STANDARD WEIGHT ORANGE QUICK CONNECT

- STD-3** 3' SINGLE MALE X FEMALE POLE
- STD-6** 6' SINGLE MALE X FEMALE POLE
- STD-18** 18' SET OF 2ea. MALE X FEMALE POLE
- STD-21** 21' SET OF 3ea. 6' & 1ea. 3' MALE X FEMALE POLE
- STD-24** 24' SET OF 3ea. MALE X FEMALE POLE & 1ea. FEMALE X RUBBER END
- STD-6R** SINGLE 6' FEMALE X RUBBER END POLE
- STD-12R** SINGLE 12' POLE WITH FEMALE END X RUBBER END POLE



TELESCOPIC FIBERGLASS POLES

- EXT-3** 6' - 12' FIBERGLASS EXTENSION POLE
- EXT-1** 8' - 16' FIBERGLASS EXTENSION POLE
- EXT-2** 8' - 24' FIBERGLASS EXTENSION POLE



STEEL REINFORCED FIBERGLASS POLES (SUPER STIFF) QUICK CONNECT

- STD-3ST** 3' SINGLE MALE X FEMALE POLE
- STD-6ST** 6' SINGLE MALE X FEMALE POLE
- STD-21ST** 21' SET OF 3ea. 6' & 1ea. 3' MALE X FEMALE POLE
- STD-24ST** 24' SET OF 3ea. MALE X FEMALE POLES & 1ea. FEMALE X RUBBER END POLE



STEEL REINFORCED



FOAM FILLED POLES FOR EXTRA STRENGTH AND SAFETY WITH QUICK CONNECT ENDS

- FF-3** SINGLE 3' MALE X FEMALE POLE
- FF-6** SINGLE 6' MALE X FEMALE POLE
- FF-8** SINGLE 8' MALE X FEMALE POLE
- FF-21** SET OF 3ea. 6' MALE X FEMALE & 1ea. 3' MALE X FEMALE POLE
- FF-24** SET OF 3ea. MALE X FEMALE POLES & 1ea. FEMALE X RUBBER END POLE
- FF-6R** SINGLE 6' FEMALE X RUBBER END POLE



STEEL THREADED ENDS – FIBERGLASS POLES STANDARD WEIGHT ORANGE

PLEASE MAKE SURE YOUR TOOLS ARE THREADED ALSO!!

- STD-3T** SINGLE 3' MALE X FEMALE POLE
- STD-6T** SINGLE 6' MALE X FEMALE POLE
- STD-18T** SET OF 2ea. 6' MALE X FEMALE POLES & 1ea. MALE X RUBBER END POLE
- STD-21T** SET OF 3ea. 6' MALE X FEMALE POLES & 1ea. 3' MALE X FEMALE POLE
- STD-24T** SET OF 3ea. 6' MALE X FEMALE POLES & 1ea. 6' MALE X RUBBER END POLE
- STD-6RT** SINGLE 6' MALE X RUBBER END POLE
- STD-12RT** SINGLE 12' MALE X RUBBER END POLE



STEEL THREADED ENDS – STEEL REINFORCED FIBERGLASS POLES (OUR STRONGEST POLE AVAILABLE)

PLEASE MAKE SURE YOUR TOOLS ARE THREADED ALSO!!

- STD-3STT** SINGLE 3' MALE X FEMALE POLE
- STD-6STT** SINGLE 6' MALE X FEMALE POLE
- STD-18STT** SET OF 2ea. 6' MALE X FEMALE POLES & 1ea. 6' MALE X RUBBER END POLE
- STD-21STT** SET OF 3ea. 6' MALE X FEMALE POLES & 1ea. 3' MALE X FEMALE POLE
- STD-24STT** SET OF 3ea. 6' MALE X FEMALE POLES & 1ea. 6' MALE X RUBBER END POLE

STEEL REINFORCED



THREADED POLES CONT...

FOAM FILLED POLES FOR EXTRA STRENGTH-STEEL THREADED ENDS

PLEASE MAKE SURE YOUR TOOLS ARE THREADED ALSO

- FF-3T** SINGLE **3'** MALE X FEMALE POLE
- FF-6T** SINGLE **6'** MALE X FEMALE POLE
- FF-21T** SET OF **3ea. 6'** & **1ea. 3'** MALE X FEMALE POLE
- FF-24T** SET OF **2ea. 8'** MALE X FEMALE POLES & **1ea.** MALE X RUBBER END POLE
- FF-6RT** SINGLE **6'** MALE X RUBBER END POLE



ALUMINUM POLE WITH ALUMINUM QUICK CONNECT ENDS (SUPER STRONG AND LIGHTWEIGHT)

- AP-6** SINGLE **6'** MALE X FEMALE ALUMINUM POLE
- AP-12** SET OF **2ea. 6'** MALE X FEMALE ALUMINUM POLES
- AP-18** SET OF **3ea. 6'** MALE X FEMALE ALUMINUM POLES
- AP-24** SET OF **4ea. 6'** MALE X FEMALE ALUMINUM POLES



CUES[®] TYPE FIBERGLASS POLE

- CTP-5** (CUES[®] TYPE) 5' STANDARD FIBERGLASS POLE WITH ALUMINUM FEMALE END



- CTP-5FF** (CUES[®] TYPE) 5' FOAM FILLED POLE WITH ALUMINUM FEMALE END



- CTP-5S** (CUES[®] TYPE) 5' STANDARD FIBERGLASS POLE WITH HD STEEL FEMALE END



- CTP-5FFS** (CUES[®] TYPE) 5' FOAM FILLED POLE WITH HD STEEL FEMALE END



JETTING AND VACUUM TOOLS AND ACCESSORIES

SEWER HOSE PROTECTION EQUIPMENT

SAMR-1 UPPER MANHOLE ROLLER GUIDE (36" **ALUMINUM**) WITH NYLON ROLLER **FOR 24" MANHOLE**

SAMR-48 SAME AS ABOVE WITH 48" LEGS **FOR 36" MANHOLE**

SASR-1 UPPER MANHOLE ROLLER GUIDE (**STEEL CONSTRUCTION** WITH NYLON ROLLER)

DPTR-1 UPPER MANHOLE "Y" ROLLER WITH ROOM FOR 8" SUCTION TUBE OPENS UP IN MIDDLE FOR EXTRA ROOM. HINGED SO YOU CAN USE AS CLOSED STANDARD OR OPEN "Y"

SAMA-1 UPPER MANHOLE ROLLER GUIDE (ALUMINUM) ALUMINUM ROLLER

SJS-1 TIGER TAIL 3" X 36"

SJS-2 TIGER TAIL 2" X 36"

SJS-HD HEAVY DUTY TIGERTAIL PUMA HOSE GUIDE 3" Smooth bore rubber hose, steel banded cuffs, king clamp rope **lasts 10X longer than standard Tiger Tails**

SJ2-HD HEAVY DUTY PUMA HOSE GUIDE 2"

ADJ-1 ADJUSTABLE TOP MANHOLE ROLLER. Tubular Steel sides to Manholes from **24" to 36"**. Opposing brackets grab manhole ring. 3" Gap when opened up allows you to insert hose without taking apart



23 lbs. SSC-24 ANTI-SPLASH MANHOLE ROLLER GUIDE FOR **24"** MANHOLE

51 lbs. SSC-36 ANTI-SPLASH MANHOLE ROLLER GUIDE FOR **36"** MANHOLE

All aluminum construction with nylon roller and thick 3/8" Polycarbonate eliminates possibility of getting splashed by sewer water or falling in the manhole opening.

CORRUGATED PIPE ROLLER

STR-1 ROLLER FOR CORRUGATED PIPE PROTECTS YOUR HOSE WHEN CLEANING WHEN YOU NEED TO DROP YOUR HOSE OVER AN ELEVATED ROAD TO CLEAN A CULVERT THIS WILL PROTECT YOUR HOSE FROM SCRAPES AND SHREDDING



LOWER MANHOLE ROLLER GUIDES

GTT-7 TIGER TAIL 5 ROLLER GUIDE WITH 25' ROPE ALL ALUMINUM LOWERS YOUR HOSE AND NOZZLES INTO SEWER PIPE. PROTECTS HOSE, LIGHTWEIGHT AND EASY TO USE. 5 POLYPROPYLENE ROLLERS



GTT-7

LCR-5 LOWER CAMERA ROLLER. ALL ALUMINUM WITH 4 OFFSET ROLLERS, 2 REMOVABLE TO FEED CABLE THROUGH. MOVABLE SHOE FOR STANDARD FIBERGLASS POLES OR CUES STYLE PUSH BUTTON POLES



LCR-5

SDA-2 ARTICULATING ROLLER GUIDE ABLE TO GUIDE HOSE OVER AND UNDER EXPOSED PIPE OR "K" RAILS. BENDS IN THE MIDDLE SO THAT YOUR HOSE WON'T GET RIPPED UP BY CORRUGATED STEEL PIPE. 9 ROLLERS AND 2 HOSE STAYS ASSURE YOUR HOSE STAYS IN POSITION. COMES WITH 25' NYLON ROPE



SDA-2

729-A COMPACT LOWER MANHOLE ROLLER, STEEL, WITH 4 YELLOW POLYURETHANE ROLLERS. SAFETY ORANGE WITH TOP ADAPTER FOR FIBERGLASS POLE (3/16" THICK STEEL 13"L X 15"H)



729-A

SHDS-1 ALUMINUM LOWER MANHOLE ROLLER GUIDE SHOE - FOR LARGER LINES (4 NYLON ROLLERS) 3/4" THREADED CONNECTION. POLES NOT INCLUDED (21 1/2 X 21 1/2)



SHDS-1

SHDS-1ST SAME AS ABOVE BUT STEEL CONSTRUCTION

LMER-1 LOWER MANHOLE EASEMENT ROLLER. ALLOWS OPERATOR TO CHANGE DIRECTION OF HOSE IN MANHOLE THAT HAS DENIED ACCESS. THIS TOOL/ROLLER ALLOWS YOU TO TURN THE HOSE 90° DERLIN ROLLER SPINS ON 2 SEALED BEARINGS



SSR-5



LMER-1

SSR-5 STAKE ROLLER FOR HOSE TO GO AROUND BENDS HARDENED POINT AND HEAD. SPADE TO KEEP FROM TURNING

HGR-1 HOSE GUIDE ROLLER-GRABBER FOR FIBERGLASS POLES

HGR-1T HOSE GUIDE ROLLER-GRABBER FOR THREADED POLES HOSE IS CRADLED IN LOWER HOOKS TO ALLOW YOU TO LAUNCH THE REPLACEMENT NOZZLE WITH ROLLER ALREADY IN PLACE



HGR-1

PR-1 DELRIN REPLACEMENT ROLLER BLACK



PR-1Y YELLOW POLYURETHANE REPLACEMENT ROLLER



PR-1-WB DELRIN REPLACEMENT ROLLER WITH 2 INTEGRATED SEALED BEARINGS



FE-1 POLE ADAPTER. CONNECTS TO 3/4" THREADED NPT FOR ABOVE GUIDE SHOE ROLLERS TO OUR QUICK CONNECT FIBERGLASS POLES



FE-1

DROP MANHOLE BRIDGE (3 DIFFERENT WIDTHS!!)

DMB-1 DROP MANHOLE BRIDGE FOR **8" SEWER LINE and UP 48" LONG BRIDGE**
(This is our most commonly used size. Made for a crawler with a 6" width)
(Includes Pole Connector & 25' Rope for leveling)

DMB-1S DROP MANHOLE BRIDGE FOR **6" SEWER LINE. 48" LONG BRIDGE**
(This is our smallest bridge 4" width)
(Includes Pole Connector & 25' Rope for leveling)

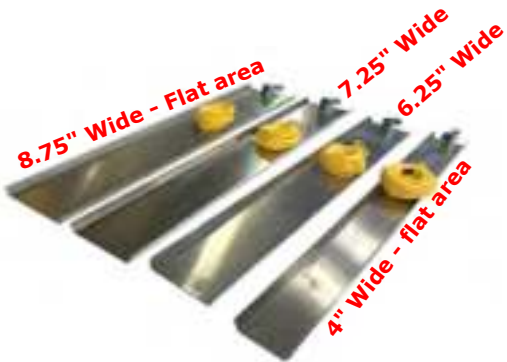
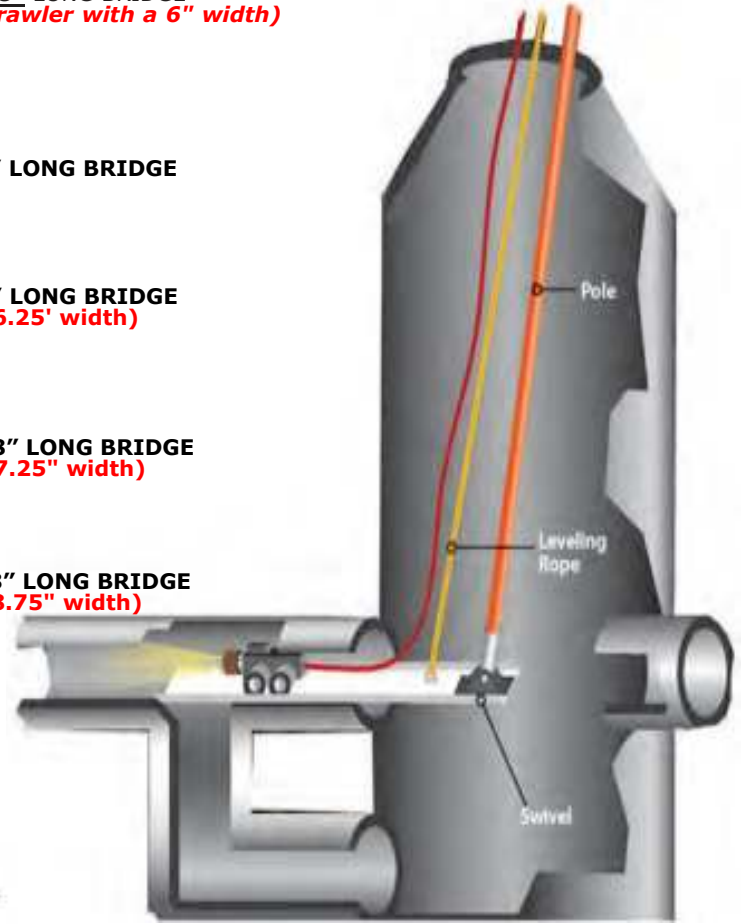
DMB-2 DROP MANHOLE BRIDGE FOR **8" SEWER LINE. 60" LONG BRIDGE**
(Includes Pole Connector & 25' Rope for leveling/6.25" width)

DMB-3 DROP MANHOLE BRIDGE FOR **10" SEWER LINE. 48" LONG BRIDGE**
(Includes Pole Connector & 25' Rope for leveling/7.25" width)

DMB-4 DROP MANHOLE BRIDGE FOR **12" SEWER LINE. 48" LONG BRIDGE**
(Includes Pole Connector & 25' Rope for leveling/8.75" width)

DMB-1-24 DROP MANHOLE BRIDGE KIT.
(Includes: Set of 24' Long Poles STD-24)
CHOOSE EITHER 6" OR 8" PIPE SIZE

- Part#: DMB-1-24-6 FOR 6"
- Part#: DMB-1-24-8 FOR 8"



DEEP MANHOLE TUBE HOLDER

- DTH-6** 6" DEEP TUBE HOLDER. USE TO LOWER TUBES INTO MANHOLE FOR 36"
DTH-8 8" DEEP TUBE HOLDER. USE TO LOWER TUBES INTO MANHOLE FOR 36"
DTH-50 8" DEEP TUBE HOLDER. EXTENDED ARM TO 50" LENGTH
DTH-60 8" DEEP TUBE HOLDER. EXTENDED ARM TO 60" LENGTH



ALUMINUM ARMS ARE VERY LIGHT!!

BEST IDEA EVER FOR YOUR SUCTION MACHINE - VAC TRAPS!

Vac-Traps are a Patent Pending item invented by David Pryor the owner of Southland Tool Mfg. So please do not accept any imitations, but only the best, from the source.

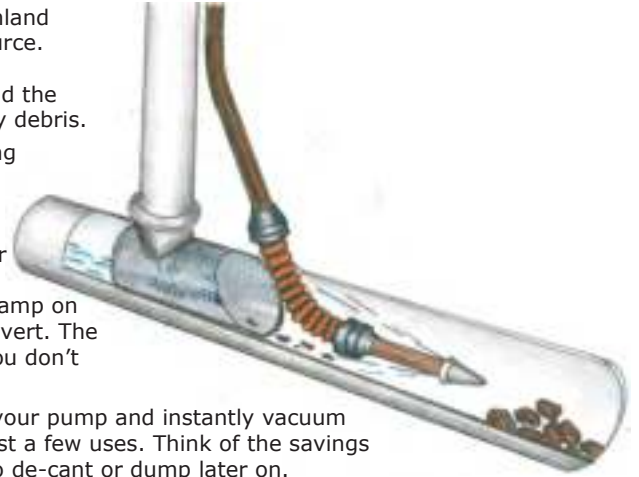
Southland Tool Inc. makes a variety of Vac-Trap Debris Catchers. The idea behind the Vac-Trap is to keep the water in the sewer line where it belongs and remove only debris.

When you are vacuuming the debris coming down the sewer you usually are using a crown nozzle elevated above the flow on the down stream side of the invert. This accepted way of suctioning debris means you remove a great deal of water from the sewer line that requires you to either, decant or dump the water, along with the debris. Decanting takes time, if you have the set up, and dumping water along with debris is expensive and inefficient.

The Vac-Trap allows you to keep the water in the sewer where it belongs. Just clamp on the correctly sized Vac-Trap to the end of your suction tube and lower into the invert. The sewer debris flows through it and traps the debris but lets the water filter out. You don't even have to run your PD or fan, just let the trap do the work on its own.

Once the trap is full and you see the water start to back up then simply turn on your pump and instantly vacuum the trap clean, then you're ready to start again. The Vac-trap pays for itself in just a few uses. Think of the savings of not having to run your suction pump continuously, not having to waste time to de-cant or dump later on.

Now you can fill your tank with 80% debris and only 20% water.



VECTOR FLAT FLANGE TYPE

- BT-6** 6" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-8** 8" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-10** 10" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-12** 12" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-15** 15" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-18** 18" VAC-TRAP FOR 8" VECTOR SUCTION TUBE FLAT FLANGE

FULL FLOW



VECTOR FLAT FLANGE TYPE (With Grit Covers)

- BT-6S** 6" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-8S** 8" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-10S** 10" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-12S** 12" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-15S** 15" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE
- BT-18S** 18" VAC-TRAP GRIT FOR 8" VECTOR SUCTION TUBE FLAT FLANGE

HALF MOON-CATCHES SAND



CAMEL STYLE FEMALE END

- CT-6** 6" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END
- CT-8** 8" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END
- CT-10** 10" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END
- CT-12** 12" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END
- CT-15** 15" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END
- CT-18** 18" VAC-TRAP FOR 8" CAMEL TYPE FEMALE END

FULL FLOW



CAMEL STYLE FEMALE END (With Grit Covers)

- CT-6S** 6" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END
- CT-8S** 8" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END
- CT-10S** 10" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END
- CT-12S** 12" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END
- CT-15S** 15" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END
- CT-18S** 18" VAC-TRAP GRIT FOR 8" CAMEL TYPE FEMALE END

HALF MOON-CATCHES SAND



VAC-ALL MALE COUPLING END

- JT-6** 6" VAC-TRAP FOR 8" VAC-ALL MALE END
- JT-8** 8" VAC-TRAP FOR 8" VAC-ALL MALE END
- JT-10** 10" VAC-TRAP FOR 8" VAC-ALL MALE END
- JT-12** 12" VAC-TRAP FOR 8" VAC-ALL MALE END
- JT-15** 15" VAC-TRAP FOR 8" VAC-ALL MALE END
- JT-18** 18" VAC-TRAP FOR 8" VAC-ALL MALE END

FULL FLOW



VAC-ALL MALE COUPLING END (With Grit Covers)

- JT-6S** 6" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END
- JT-8S** 8" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END
- JT-10S** 10" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END
- JT-12S** 12" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END
- JT-15S** 15" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END
- JT-18S** 18" VAC-TRAP GRIT FOR 8" VAC-ALL MALE END

HALF MOON-CATCHES SAND



ADD "6" TO END OF PART #3 FOR 6" UP-TUBE FOR ANY VAC-TRAP. SAME PRICE

SUCTION TUBE CLAMPS

(8" VACTOR STYLE QUICK CLAMP)

This Clamp does not come in a 6"

(8" VAC-CON STYLE QUICK CLAMP)

(8" VAC-CON STYLE QUICK CLAMP)

With safety pin locking device which prevents latch from opening



S16584

(6" VAC-CON STYLE QUICK CLAMP)



S690-0073



S680-0015



S680-0015WLC

6" BANDLOCK STYLE TUBE CLAMP



S42587

8" BANDLOCK STYLE TUBE CLAMP



S42588

8" BANDLOCK STYLE TUBE CLAMP

With safety pin locking device which prevents latch from opening



S42588WLC

8" VACTOR/VAC-CON STYLE TUBE HOSE CLAMP



THV-8

8" VACTOR/VAC-CON CLAMP



V-8

8" CAMEL/VAC-ALL STYLE TUBE HOSE CLAMP



THC-8



HYDRO-VAC TUBE HOLDER AND HANDLES

TWO HAND STYLE

HYH-6 6" HYDRO-VAC TUBE HOLDER WITH 2 HANDLES FOR 4" TUBE

HYH-8 8" HYDRO-VAC TUBE HOLDER WITH 2 HANDLES FOR 8" TUBE



HYH- (6) (8)

ONE HAND VACTOR STYLE

HYH-6-VS 6" VACTOR STYLE WITH LARGER HANDLES FOR 6" TUBE

HYH-8-VS 8" VACTOR STYLE WITH LARGER HANDLES FOR 8" TUBE

HYH-(6) (8)-VS



ONE HAND VACTOR STYLE

HYH-8-WH 8" TUBE CLAMP VACTOR STYLE WITH ADJUSTABLE HOOK TYPE CLAMP



HYH-8-WH



"DIG IT" HYDRO-EXCAVATING TOOLS

HYDRO-EXCAVATOR TOOL "DIG-IT" Is a lightweight attachment for your sewer hose, with sewer hose size (3/4" or 1") and suction tubes sizes (6' OR 8'). The wet ring has either 4, 8 or 10 replaceable stainless steel jets according to your GPM and PSI. Jets are slightly angled and zero degrees. Bottom rubber cuff provides protection.

SMALL, COMPACT, EASY TO STORE

PART NO.	MACHINE	TUBE SIZE	HOSE	JETS
HY-EX-8V4-3/4	VECTOR/VAC-CON	8"	3/4"	4
HY-EX-8V8-3/4	VECTOR/VAC-CON	8"	3/4"	8
HY-EX-8V10-3/4	VECTOR/VAC-CON	8"	3/4"	10
HY-EX-8V4-1	VECTOR/VAC-CON	8"	1	4
HY-EX-8V8-1	VECTOR/VAC-CON	8"	1	8
HY-EX-8V10-1	VECTOR/VAC-CON	8"	1	10
HY-EX-8C4-3/4	CAMEL	8"	3/4"	4
HY-EX-8C8-3/4	CAMEL	8"	3/4"	8
HY-EX-8C10-3/4	CAMEL	8"	3/4"	10
HY-EX-8C4-1	CAMEL	8"	1	4
HY-EX-8C8-1	CAMEL	8"	1	8
HY-EX-8C10-1	CAMEL	8"	1	10
HY-EX-8J4-3/4	VAC-ALL	8"	3/4"	4
HY-EX-8J8-3/4	VAC-ALL	8"	3/4"	8
HY-EX-8J10-3/4	VAC-ALL	8"	3/4"	10
HY-EX-8J4-1	VAC-ALL	8"	1	4
HY-EX-8J8-1	VAC-ALL	8"	1	8
HY-EX-8J10-1	VAC-ALL	8"	1	10

HYH-EX-8V.....



HYH-EX-8C.....



HYH-EX-8J.....



ALL ARE AVAILABLE IN 6" TUBE SIZE. ADD "6" AFTER HY-EX. SAME PRICE AS 8"

SPECIALTY VACUUM FITTINGS/CLAMPS/ADAPTERS

8FFX6FH 8" FLAT FLANGE X 6" FLEX HOSE ADAPTER WITH RING TO CONNECT TO BAND LOCK CLAMP AND HOSE. YOUR HOSE WILL SWIVEL ON THIS ADAPTER. **HOSE NOT INCLUDED**



CROWN NOZZLE REDUCERS/EXCAVATOR CUFFS / ELBOWS / TUBE CLAMPS

RCN8SS 8" X 5.5" Crown Nozzle Reducer 12" Long. Vector
RCN8SSC 8" X 5.5" Crown Nozzle Reducer 12" Long. Camel female band lock x reduced crown
RCN8SSV 8" X 5.5" Crown Nozzle Reducer 12" Long. Vac-All male band lock x reduced crown



HYDRO-EXCAVATION REDUCER CUFFS

RCUFF8FF 8" X 6" Hydro Excavator Reducer Cuff 8" Flat Flange x 6" Kanaflex Cuff
RCUFF8CT 8" X 6" Hydro Excavator Reducer Cuff 8" Bandlock Female (Camel) x 6" Kanaflex
RCUFF8JT 8" X 6" Cuff Hydro Excavator Reducer Cuff 8" Bandlock Male (Vac-All) x 6" Kanaflex
SCUFF8 8" X 6" Cuff Hydro Excavator Straight Cuff 8" Flat Flange x 8" Kanaflex Cuff



ALUMINUM ELBOWS

CN908FF 8" Flange Short Radius 90° Elbow with Flat Flange x Crown Nozzle. All Aluminum
EL98FF 8" Flange Short Radius 90° Elbow with Flat Flange x Flat Flange. All Aluminum
EL458FF 8" Flange Short Radius 45° Elbow with Flat Flange x Flat Flange. All Aluminum



TRANSITION COUPLERS CHANGE ONE TYPE TUBE TO ANOTHER

- 8FFX8BLF** 8" FLAT FLANGE X 8" FEMALE BANDLOCK COUPLER. CONNECTS YOUR FLAT FLANGE TUBES TO YOUR BAND LOCK MALE COUPLING. ZINC PLATED
- 8FFX8BLM** 8" FLAT FLANGE X 8" MALE BANDLOCK COUPLER. CONNECTS YOUR FLAT FLANGE TUBES TO YOUR BAND LOCK/CAMEL FEMALE COUPLING. ZINC PLATED
- 6FFX6BLF** 6" FLAT FLANGE X 6" FEMALE BANDLOCK COUPLER. CONNECTS YOUR FLAT FLANGE TUBES TO YOUR BAND LOCK MALE COUPLING. ZINC PLATED
- 6FFX6BLM** 6" FLAT FLANGE X 6" MALE BANDLOCK COUPLER. CONNECTS YOUR FLAT FLANGE TUBES TO YOUR BAND LOCK/CAMEL FEMALE COUPLING. ZINC PLATED



TRANSITION REDUCER COUPLERS CHANGE ONE TYPE TUBE TO ANOTHER

- 8FFX6FF** 8" X 6" FLAT FLANGE REDUCER COUPLING. ZINC PLATED REDUCES YOUR 8" FLAT FLANGE TUBES TO 6" FLAT FLANGE TUBES
- 8FFX6NPT** 8" FLAT FLANGE X 6" NPT THREADED TRANSITION COUPLING
- 6BLFX4NPT** 6" BAND LOCK FEMALE X 4" MALE NPT THREAD
- 8FFX6BLF** 8" FLAT FLANGE REDUCER TO 6" BAND LOCK FEMALE COUPLER REDUCES YOUR 8" FLAT FLANGE TUBES TO YOUR 6" MALE END BAND LOCK TUBES
- 8FFX6BLM** 8" FLAT FLANGE REDUCER TO 6" BAND LOCK MALE COUPLER REDUCES YOUR 8" FLAT FLANGE TUBES TO YOUR 6" FEMALE END BAND LOCK TUBES



COUPLERS X HOSE SHANK END FOR YOUR VACUUM MACHINES

- 8FFX8HA** 8" FLAT FLANGE X 8" HOSE ADAPTER. CONNECTS YOUR 8" FLANGE VACUUM TUBES TO AN 8" KANAFLEX TYPE VACUUM HOSE
- 6FFX6HA** 6" FLAT FLANGE X 6" HOSE ADAPTER. CONNECTS YOUR 6" FLAT FLANGE VACUUM TUBES TO AN 6" KANAFLEX TYPE VACUUM HOSE
- 8FFX6HA** 8" FLAT FLANGE X 6" HOSE ADAPTER REDUCER. ALL STEEL WITH MOUNTING HOLES ZINC PLATED AND 7.5" OVERALL LENGTH
(HOSE NOT INCLUDED)



FLANGED DOUBLE HOSE SHANK REDUCER. 8" TO DOUBLE 4". OPENING FOR 4" HOSE.

- 8FFX44DD** 8" FLAT FLANGE X DOUBLE 4" HOSE CONNECTORS. ONE WITH SAFETY GRID INCLUDED FOR FREE AIR APPLICATION. 8" OVERALL LENGTH AND ZINC PLATED
- 8FFX44ME** 8" FLAT FLANGE X DOUBLE 4" HOSE CONNECTOR WITH ONE 4" THREADED NPT MALE END
- COW-U-8V** 8" FLAT FLANGE X DOUBLE 2" AND 3" MALE, FEMALE CAM-LOCK ENDS



- COW-U-8BLF** 8" MALE BANDLOCK X DOUBLE 2" AND 4" MALE, FEMALE CAM-LOCK ENDS



- COW-U-8BLM** 8" FEMALE BANDLOCK X DOUBLE 2" AND 4" MALE, FEMALE CAM-LOCK ENDS



INDUSTRIAL HYDRO VACUUM EQUIPMENT

Industrial Vacuum Tools And Attachments Make Your Life Safer and Easier For Your Employees

Do you feel safe when vacuuming? Do you want your safety to be in your hands? Don't get caught not having this item in your safety program. It is essential and necessary for all vacuum operators to have control of the force of vacuum.

Industrial Vacuum Users Will Easily See The Benefits Of The Safety Shutter Nozzle. It Allows You To Control The Flow Of Vacuum At The Point Of Entry. With Just A Push Of A Lever You Can Completely Release The Vacuum Flow Or You Can Control The Amount Of Suction To The End Of The Nozzle.

SAFETY VAC CONTROL !!

GPSS-4BL **4" SAFETY SHUTTER SUCTION NOZZLE FOR 4" FLEX HOSE**
 Designed for 4" Flex Hose That Will Slip Over The Smooth Connection End.
 Hose Will Swivel When Connected To Allow For Easy Positioning Of The Nozzle

GPSS-6BL **6" SAFETY SHUTTER SUCTION NOZZLE FOR 6" FLEX HOSE**
Same As Above But For 6" Flex Hose

GP-TRI **TRI-POD FOR SAFETY SHUTTER SUCTION NOZZLES**
 The Tri-Pod Allows You To Set Up The Safety Nozzle For Hands Free
 Operation. It Works With The 4" or 6" Nozzle And Is Great For Pushing
 Material To The Inlet Essential Making It A One-Man Job

GP-EXT **EXTENSION HANDLE FOR SAFETY**
 The **3'** Extension Handle Connects To The Safety Nozzle Allowing You to
 Stand Up Straight To Take The Strain Off Your Back. Removing The Extension
 Handle Allows You To Use The Safety Nozzle In Tight Confined Areas.

GP-62 **2' X 6" EXTENSION TUBE FOR GPSS-6BL**

GP-63 **3' X 6" EXTENSION TUBE FOR GPSS-6BL**

GP-42 **2' X 4" EXTENSION TUBE FOR GPSS-6BL**

GP-43 **3' X 4" EXTENSION TUBE FOR GPSS-6BL**

All Aluminum tube extension. The suction inlet of the safety nozzle to
 suck underwater or in any area where you need to extend the inlet.

GP-DB-4 **DUCKBILL NOZZLE FOR SAFETY SHUTTER SUCTION NOZZLE WITH 4" CONNECTION**

GP-DB-6 **DUCKBILL NOZZLE FOR SAFETY SHUTTER SUCTION NOZZLE WITH 6" CONNECTION**

The Duckbill Nozzle is great for larger areas where extra width for liquids or slurry
 might be needed. Special end connects directly to end of safety nozzle with clamp



SAND TRAPS

- SST-6** **6" SAND TRAP WITH 25' LONG ROPE**
- SST-8** **8" SAND TRAP WITH 25' LONG ROPE**
- SST-10** **10" SAND TRAP WITH 25' LONG ROPE**
- SST-12** **12" SAND TRAP WITH 25' LONG ROPE**
- SST-15** **15" SAND TRAP WITH 25' LONG ROPE**
- SST-18** **18" SAND TRAP WITH 25' LONG ROPE**
- SST-20** **20" SAND TRAP WITH 25' LONG ROPE**



HYDRAULIC ROOT SAW CUTTERS (MOTORS & KITS)

PUMA "HD" HIGH DISPLACEMENT HYDRAULIC ROOT SAW CUTTER

SOUTHLAND TOL Offers you the "PUMA" HD CUTTER MOTOR as our standard cutter. Don't be fooled by smaller blue motors that offer only a fraction of the power that this high displacement motor offers. It has higher cutter force to plow into roots, grease, protruding taps and other stoppages. These units fit our front flanged EZ-SKIDS as seen below with 4 bolts in front and 2 in the tail Nozzle.

- SHYM-1** 1" PUMA "HD" HIGHER DISPLACEMENT, 1" HYDRAULIC ROOT SAW MOTOR AND TAIL
- SHYM-3/4** 3/4" NOZZLE PUMA "HD" HIGHER DISPLACEMENT, 3/4" HYDRAULIC ROOT SAW MOTOR AND TAIL NOZZLE



PUMA ROOT CUTTER KIT AS FOLLOWS:

- SHYK-1** 1" PUMA "Heavy Duty" HIGHER DISPLACEMENT KIT
- SHYK-3/4** 3/4" SAME KIT AS ABOVE BUT FOR 3/4" SEWER HOSE

1" HYDRAULIC ROOT SAW MOTOR KIT INCLUDES:

- 4 Easy skids of 6", 8, 10" and 12".
- 4 HD concave root saws for 6", 8", 10" and 12"
- 1" HUB
- Arbor turn tool
- 1/4" Hex Allen Wrench
- 3/8-16 X 5/8 Hex Allen Wrench
- Tool box
- Maintenance instructions.



SHYK-1 PUMA KIT

The profile of this cutter is designed for lines from 6" and up. The motor can accommodate hose sizes of 3/4" and 1" with flow from 35 to 80 GPM and pressure from 2000 3000 PSI. Rated up to a maximum of 235 lbs. of torque.

MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SKP-1R REPAIR KIT FOR PUMA MOTOR

TNPM 1" PUMA TAIL NOZZLE REPLACEMENT ONLY

GERP-1 GEROTOR FOR PUMA MOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 1/8" THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 3/16" THICKNESS SAW

BLADES 3BHC-1 3 BLADE CHUCK FOR 1" SHAFT ROOT CUTTER MOTOR



Kit Includes:

- 3ea. Body Seal
- 1ea. Pressure Seal
- 1ea. Shaft Seal
- 1ea. Thrust Washer Seal
- 1ea. Thrust Bearing
- 1ea. Bearing Race Way

EZ ROOT CUTTER SKIDS FOR PUMA "HD" MOTORS

Easy ROOT CUTTER Skids are designed to skid over the motor and bolt down to the front flange and the 2 side bolts in the tail nozzle.

- SS-6** 6" Easy ROOT CUTTER SKID WITH 3 RAILS.
- SS-8** 8" Easy ROOT CUTTER SKID WITH 3 RAILS.
- SS-10** 10" Easy ROOT CUTTER SKID **FINS ONLY**.
- SS-12** 12" Easy ROOT CUTTER SKID **FINS ONLY**.
- SS-15** 15" Easy ROOT CUTTER SKID **FINS ONLY**.
- SS-18** 18" Easy ROOT CUTTER SKID WITH 3 RAILS.
- SS-20** 20" Easy ROOT CUTTER SKID WITH 3 RAILS.
- SS-22** 22" Easy ROOT CUTTER SKID WITH 3 RAILS.
- SS-24** 24" Easy ROOT CUTTER SKID WITH 3 RAILS.



DONUT SKIDS

- S950-108** FRONT 4 BOLT SKID DONUT FOR PUMA MOTOR
- S950-109** REAR 2 BOLT SKID DONUT FOR PUMA MOTOR



TAP/CALCIUM CUTTERS (TIER 2 PRODUCT)

- DTC-6-K-1** Hi-Torque 6" Tap Cutter Kit, includes, S906M-1 Motor, STSS-6 Skid DTC-6 Diamond Tap Cutter, Tool Box, Turn Tool, Allen Wrench, Bolts.
- DTC-8-K-1** Hi-Torque 8" Tap Cutter Kit, includes, S906M-1 Motor, STSS-8 Skid DTC-8 Diamond Tap Cutter, Tool Box, Turn Tool, Allen Wrench, Bolts.



DIAMOND TAP CUTTERS

- DTC-6** 6" DIAMOND TAP CUTTER
- DTC-8** 8" DIAMOND TAP CUTTER
- DTC-10** 10" DIAMOND TAP CUTTER
- DTC-12** 12" DIAMOND TAP CUTTER
- DTC-15** 15" DIAMOND TAP CUTTER



PVC TAP CUTTER

- CTS-6** 6" PVC TAP CUTTER
- CTS-8** 8" PVC TAP CUTTER
- CTS-10** 10" PVC TAP CUTTER
- CTS-12** 12" PVC TAP CUTTER
- CTS-15** 15" PVC TAP CUTTER
- CTS-18** 18" PVC TAP CUTTER



ARROW DIAMOND TIPPED CUTTER (CALCIUM CARBONATE CUTTER)

- ADC-6** 6" ARROW DIAMOND CUTTER
- ADC-8** 8" ARROW DIAMOND CUTTER
- ADC-10** 10" ARROW DIAMOND CUTTER
- ADC-12** 12" ARROW DIAMOND CUTTER
- ADC-15** 15" ARROW DIAMOND CUTTER



SEPTIC CLEANING TOOLS (All are fitted with a 3/4" Female NPT Pipe connection)

- SV-1HD** 9" ANGLED SLUDGE HOE WITH 2 HOLES
- SV-2HD** 15" ANGLED SLUDGE HOE WITH 3 HOLES
- SV-3HD** 9" FLAT SLUDGE SPUD
- SV-4HD** 15" FLATSLUDGE SPUD
- SV-5HD** 9" CURVED SPUD
- SV-6HD** 15" CURVED SPUD
- SV-7HD** 16" TANK SCRAPER (HALF MOON FOR TANKS)
- SV-8HD** 12" SLUDGE RAKE WITH 2 HOLES AND TEETH



- FE-1** ADAPTER TO CONNECT SEPTIC CLEANING TOOLS TO FIBERGLASS POLES



FE-1

SRRC-1H SUPER "RED HOT" EXTENDED DUTY HYDRAULIC ROOT CUTTER MOTORS

SRRC-1H 1" ROUND BODY SUPER "RED HOT" HEAVY DUTY BEARING HYDRAULIC ROOT SAW MOTOR. This motor has been specially machined for a Heavy Duty thrust bearing that performs better for extended life, smooth running and reduced maintenance problems. This larger steel bearing absorbs the constant pounding of the shaft when plowing into root masses and stoppages. This motor fits all round body skids including Patriot and Smart Cutters.

SRRC-3/4H 3/4" SAME AS ABOVE BUT FOR 3/4" HOSE.



KITS

SRRK-1H 1" RED HOT KIT "Heavy Duty" HIGHER DISPLACEMENT

SRRK-3/4H 3/4" SAME AS ABOVE BUT FOR 3/4" HOSE.

1" HYDRAULIC RED HOT ROOT SAW MOTOR KIT INCLUDES:

- 4 RBS skids of 6", 8, 10" and 12".
- 4 HD concave root saws for 6", 8", 10" and 12"
- 1" HUB
- Arbor turn tool
- 1/4" Hex Allen Wrench
- 3/8-16 X 3/8 Hex Allen Wrench
- Tool box
- Maintenance instructions.



**SRRK-1H
RED HOT KIT**

RED HOT The round profile of the cutters allows it to enter sewer lines from 4" and up. The motor can accommodate hose sizes of 1" and 3/4" with flow from 35 to 80 gpm and pressure from 2000 to 3000 psi. Rated up to maximum of 235 lbs. of torque and 175 lbs. at continuous operation. This tool has the power to clean while the bearing can take a beating and keep on ticking. This motor be as all competitor motors

MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SKP-1RH REPAIR KIT FOR SRRC-1H MOTOR

TNPM 1" SECA TAIL NOZZLE REPLACEMENT ONLY

GERP-1 GEROTOR FOR SRRC-1H MOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 1/8" THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 3/16" THICKNESS SAW BLADES

3BHC-1 3 BLADE CHUCK FOR 1" SHAFT ROOT CUTTER MOTOR



Kit Includes:

- 3ea. Body Seal
- 1ea. Pressure Seal
- 1ea. Shaft Seal
- 1ea. Thrust Washer Seal
- 1ea. HD Thrust Bearing
- 1ea. Bearing Race Way

SRRC-1P ROUND BODY SUPER "GREEN MEANIE" HYDRAULIC MOTOR

SRRC-1P 1" ROUND BODY **SUPER GREEN MEANIE 175lb.** Torque motor replaces your patriot and smart cutters. This unit fits all of your patriot and smart cutter style skids Equipment Company

SRRC-3/4P 3/4" **KIT SAME AS ABOVE BUT FOR 3/4" HOSE.**



SRRK-1 1" **SUPER GREEN MEANIE COMPLETE KIT**
SRRK-3/4 3/4" **SUPER GREEN MEANIE COMPLETE KIT**

Super Green Meanie Root Saw Motor Kit Includes:

- 4 Easy skids of 6", 8, 10" and 12".
- 4 HD concave root saws for 6", 8", 10" and 12"
- 1" HUB
- Arbor turn tool
- 1/4 Hex Allen Wrench
- 3/8-16 X 5/8 Hex Allen Wrench
- Tool box
- Maintenance instructions.

SRRK-1 Super Green Meanie KIT



SOUTHLAND TOOL "SUPER GREEN MEANIE" Round Body root cutting motor is a superior cutting and ripping tool for cleaning roots, cutting taps and destroying other debris and buildup found in all sewer lines. The round profile of this motor allows it to be used in 4" pipes and up for either 3/4" or 1" Hose. Flow from 35 to 80 gpm and pressure from 1750 to 3000. 235 lbs. of torque. buy this motor only to replace your worn out Patriot or smart cutter green motor and use the green skids you have or buy our skids, standard or wheeled.

MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SKP-1R REPAIR KIT FOR FOR SRRC-1P MOTOR

TNSM 1" SECA TAIL NOZZLE REPLACEMENT ONLY

GERP-1 GEROTOR FOR SRRC-1PMOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 1/8" THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 3/16" THICKNESS SAW BLADES

3BHC-1 3 BLADE CHUCK FOR 1" SHAFT ROOT CUTTER MOTOR



Kit Includes:

- 3ea. Body Seal
- 1ea. Pressure Seal
- 1ea. Shaft Seal
- 1ea. Thrust Washer Seal
- 1ea. Thrust Bearing
- 1ea. Bearing Race Way



TIER 2 PRODUCT

SRRK-14-15W ROUND BODY SUPER "GREEN MACHINE" HYDRAULIC MOTOR CITIZEN KIT

SRRK-14-15W CITIZEN ROUND BODY "SUPER GREEN MACHINE" WHEELED KIT for pipe from **4" to 15"**

1" Hydraulic Super Green Meanie Root Saw Motor Citizen Kit includes:

- 4 Easy skids of 4", 6", 8" - 10" and 12" - 15".
- 6 HD concave root saws for 4, 6", 8", 10", 12 and 15"
- 4" Round ring set
- 6" Skid
- 8" - 10" adjustable wheeled skid
- 12" - 15" wheeled skid
- 1" HUB
- Arbor turn tool
- ¼ Hex Allen Wrench
- Tool box
- Maintenance instructions.

SRRK-14-15W
CITIZEN KIT



MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SKP-1R REPAIR KIT FOR FOR SRRK-1P MOTOR

TNSM 1" SECA TAIL NOZZLE REPLACEMENT ONLY

GERP-1 GEROTOR FOR SRRK-1P MOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 1/8" THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 3/16" THICKNESS SAW BLADES



Kit Includes:

- 3ea. Body Seal
- 1ea. Pressure Seal
- 1ea. Shaft Seal
- 1ea. Thrust Washer Seal
- 1ea. Thrust Bearing
- 1ea. Bearing Race Way



SKIDS FOR ROUND BODY "RED" AND "GREEN" ROOT CUTTER MOTORS

RBS-4 4" RING SET FOR ROUND BODY ROOT CUTTER

RBS-6 6" SKID FOR ROUND BODY ROOT CUTTER

RBS-8 8" SKID FOR ROUND BODY ROOT CUTTER

RBS-10 10" SKID **FINS** FOR ROUND BODY ROOT CUTTER

RBS-12 12" SKID **FINS** FOR ROUND BODY ROOT CUTTER

RBS-15 15" SKID **FINS** FOR ROUND BODY ROOT CUTTER

RBS-18 18" SKID FOR ROUND BODY ROOT CUTTER

RBS-20 20" SKID FOR ROUND BODY ROOT CUTTER

RBS-24 24" SKID FOR ROUND BODY ROOT CUTTER



APS-1 8" - 10" ADJUSTABLE WHEELED SKID FOR ROUND BODY MOTORS

APS-2 12" - 15" ADJUSTABLE WHEELED SKID FOR ROUND BODY MOTORS



"HI-TORQUE" S906 HEAVY DUTY CONTRACTOR DUTY HYDRAULIC ROOT CUTTER

Southland Tools' S906M is the largest and most powerful of the Southland Tool Hydraulic motor line up.

- S906M-1** HI-TORQUE HYDRAULIC ROOT CUTTER MOTOR ONLY FOR 1" SEWER HOSE HI-TORQUE
- S906M-3/4** HYDRAULIC ROOT CUTTER MOTOR ONLY FOR 3/4" SEWER HOSE HI-TORQUE
- S906M-1.25** HYDRAULIC ROOT CUTTER MOTOR ONLY FOR 1.25" SEWER HOSE



HI-TORQUE HYDRAULIC ROOT SAW CUTTER KITS AND MOTORS

- S906K-1** "HI-TORQUE" HYDRAULIC ROOT SAW KIT
- S906K-3/4** SAME AS ABOVE BUT FOR 3/4" HOSE.

1" Hi-Torque" Hydraulic root saw motor includes:

- 4 Skids, for 6", 8", 10" and 12".
- 4 HD concave root saws for 6", 8", 10" and 12"
- 1" HUB
- Arbor turn tool
- 1/4 Hex Allen Wrench
- 3/8-16 X 5/8 Hex Allen Wrench
- Tool box
- Maintenance instructions.

This "Hi-Torque" motor features a Gerotor design that internally lowers resistance and allows the motor to operate more efficiently while producing maximum cutting results. The S906M Series of motors have all steel thrust bearing with robust roller that can handle the higher pressure loads of larger pumps and heavy cleaning in larger lines. This motor has long been referred to as the "Contractor Duty" motor as it holds up well under intense use for longer periods of time. Designed for lines from 6" to 30" the motor comes in 3/4", 1" and 1.25". It can handle flows of 10 to 170 gpm and pressure of 1500 to 3000 psi. It is rated to a maximum torque of 288 lbs. and 220 lbs. of continuous torque which is required for cutting taps in large sizes.



**S906K-1
HI-TORQUE
KIT**

MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SK-1R REPAIR KIT FOR HI TORQUE MOTOR

TN906-1M 1" HIGH TORQUE TAIL NOZZLE REPLACEMENT ONLY

GER-1-S906 GE-ROLLER FOR 906 AK MOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 1/8" THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY 3/16" THICKNESS SAW BLADES

3BHC-1 3 BLADE CHUCK FOR 1" SHAFT ROOT CUTTER MOTOR

Kit Includes:

- 3 Body Seals
- 1 Pressure Seal
- 1 Shaft Seal
- 1 Thrust Washer Seal
- 5 Bolt Crush Washer
- 1 Thrust Bearing
- 1 Bearing Race Way



TIER 2 PRODUCT

For Recyclers ! HI TORQUE "KINETICS" CORROSION RESISTANT MOTOR

The S906M-AK SERIES OF MOTORS IS SOUTHLAND FLAGSHIP MOTOR UP TO 170 GPM

- S906M-1-AK** HI-TORQUE HYDRAULIC ROOT CUTTER MOTOR ONLY **1"** SEWER HOSE
- S906M-3/4-AK** HI-TORQUE HYDRAULIC ROOT CUTTER MOTOR ONLY **¾"** SEWER HOSE
- S906M-1.25-AK** HI-TORQUE HYDRAULIC ROOT CUTTER MOTOR ONLY FOR **1.25"** SEWER HOSE
- S906M-1.50-AK** HI-TORQUE HYDRAULIC ROOT CUTTER MOTOR ONLY FOR **1.50"** SEWER HOSE

ADVANCED KINETICS INFUSION

This motor is built as the same platform as the standard S-906M motor but has an infusion process at the cellular level applied to the internal parts that make it silky smooth to turn and ideal for recycler units. This process improves hydraulic performance and almost eliminates internal corrosion. This process known as "Advanced Kinetics" used a patented finish that improves coefficient allowing parts to run smoother which reduces drag, saves water and increases productivity. Known to sit for weeks with water inside and still turns.



HI-TORQUE MOTOR-PARTS AND CHUCKS (FOR SAW BLADES AND CUTTERS SEE PAGES 29,30)

SKP-906 1" REPAIR KIT FOR 906AK MOTOR

TN906-1M 1" 906AK TAIL NOZZLE REPLACEMENT ONLY

GER-S906-AK GE-ROLLER FOR 906 AK MOTOR

ATT-1 ARBOR TURNING TOOL FOR ROOT CUTTER MOTOR

RSH-1A 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY **1/8"** THICKNESS SAW BLADES

RSH-1B 1" ROOT SAW HUB FOR ROOT CUTTER. FOR HEAVY DUTY **3/16"** THICKNESS SAW BLADES



Kit Includes:

- 3 Body Seals
- 1 Pressure Seal
- 1 Shaft Seal
- 1 Thrust Washer Seal
- 5 Bolt Crush Washer
- 1 Thrust Bearing



SHAMROCK STYLE 2-PART SKIDS FOR HI-TORQUE S906 ROOT CUTTERS

- STSS-6S** 6" SHAMROCK STYLE 2-PART SKIDS
- STSS-8S** 8" SHAMROCK STYLE 2-PART SKIDS
- STSS-10S** 10" SHAMROCK STYLE 2-PART SKIDS
- STSS-12S** 12" SHAMROCK STYLE 2-PART SKIDS
- STSS-15S** 15" SHAMROCK STYLE 2-PART SKIDS
- STSS-18S** 18" SHAMROCK STYLE 2-PART SKIDS
- STSS-20S** 20" SHAMROCK STYLE 2-PART SKIDS
- STSS-22S** 22" SHAMROCK STYLE 2-PART SKIDS
- STSS-24S** 24" SHAMROCK STYLE 2-PART SKIDS



SKIDS FOR HI-TORQUE S906M STYLE ROOT CUTTERS

- STSS-6** 6" EASY ROOT CUTTER SKID WITH 6 RAILS
- STSS-8** 8" EASY ROOT CUTTER SKID WITH 3 RAILS
- STSS-10** 10" EASY ROOT CUTTER SKID **FINS** ONLY
- STSS-12** 12" EASY ROOT CUTTER SKID **FINS** ONLY
- STSS-15** 15" EASY ROOT CUTTER SKID **FINS** ONLY
- STSS-18** 18" EASY ROOT CUTTER SKID WITH 3 RAILS
- STSS-20** 20" EASY ROOT CUTTER SKID WITH 3 RAILS
- STSS-22** 22" EASY ROOT CUTTER SKID WITH 3 RAILS
- STSS-24** 24" EASY ROOT CUTTER SKID WITH 3 RAILS



Check Out This New Cutter !!

New and Improved Tiger Tooth Lateral Root Cutter

TIGER TOOTH ROOT CUTTER WITH MORE TORQUE AND LOWER SPEED TO POWER THROUGH ROOT AND GREASE STOPAGES IN LINES FROM 3" TO 8" S903M LATERAL MOTOR ONLY. PLEASE SECIFY WITH 1/2", 3/4" OR 1"



- S903K-1** 1" LATERAL MOTOR COMPLETE KIT
- S903K-1/2** SAME AS ABOVE BUT FOR 1/2" HOSE.
- S903K-3/4** SAME AS ABOVE BUT FOR 3/4" HOSE.

Tiger Tooth Hydraulic root saw motor includes:

- 3 Skids of 4", 6", 8,
- 2 HD concave root saws for 4", 8"
- 5/8" HUB
- Arbor turn tool
- 1/4" Hex Allen Wrench
- 3/8-16 X 5/8 Hex Allen Wrench
- Tool box
- Maintenance instructions.

These motors are new and improved with high 410 inch pounds of torque. For use with your 1/2", 3/4" and 1" hose. They rotate at 400 rpm and are designed for 1500 to 400 psi and from 18 to 80 gpm. This new and improved Tiger Tooth Root Cutter has twice the cleaning and twice the power of our previous lateral motors.



S903K-1 Tiger Tooth Kit

TIGER TOOTH MOTOR-PARTS AND CHUCKS

- SKP-903** REPAIR KIT FOR TIGER TOOTH MOTOR
- TN903M** 1" TIGER TOOTH TAIL NOZZLE REPLACEMENT ONLY
- GERTT-1** GEROTOR FOR TIGER TAIL MOTOR
- RSH-5B** 5/8" HUB FOR HYDRAULIC ROOT CUTTER SAW FOR 1/8" SAW BLADE
- RSH-5C** 5/8" HUB FOR HYDRAULIC ROOT CUTTER SAW FOR 3/16 SAW BLADE
- 3BHC-2** 3 BLADE CHUCK FOR 5/8" SHAFT ROOT CUTTER MOTOR



SK-1R SEAL KIT
4 Body Seals
1 Pressure Seal
1 Shaft Seal
3 Washers
1 Thrust Bearing
1 Bearing Race Way

ROOT CUTTER SKIDS AND RINGS FOR PURPLE DEBRIS EATER LATERAL CUTTER MOTOR

- LKS-3** LATERAL ROOT CUTTER SKID RING SET FOR 3" PIPE
- LKS-4** LATERAL ROOT CUTTER SKID FOR 4" PIPE
- LKS-6** LATERAL ROOT CUTTER SKID FOR 6" PIPE
- LKS-8** LATERAL ROOT CUTTER SKID FOR 8" PIPE



ROOT SAW BLADES ONLY

STANDARD CONCAVE ROOT SAW BLADES 1/8" THICK

CRS-3B	3"	CONCAVE ROOT SAW BLADE ONLY
CRS-4B	4"	CONCAVE ROOT SAW BLADE ONLY
CRS-6B	6"	CONCAVE ROOT SAW BLADE ONLY
CRS-8B	8"	CONCAVE ROOT SAW BLADE ONLY
CRS-10B	10"	CONCAVE ROOT SAW BLADE ONLY
CRS-12B	12"	CONCAVE ROOT SAW BLADE ONLY
CRS-15B	15"	CONCAVE ROOT SAW BLADE ONLY

ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

STANDARD FLAT ROOT SAW BLADES 1/8" THICK

FRS-3B	3"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-4B	4"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-6B	6"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-8B	8"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-10B	10"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-12B	12"	STANDARD FLAT ROOT SAW BLADE ONLY
FRS-15B	15"	STANDARD FLAT ROOT SAW BLADE ONLY

ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

HEAVY DUTY CONCAVE ROOT SAW BLADES 3/16" THICK

HCRS-3B	3"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-4B	4"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-5B	5"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-6B	6"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-8B	8"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-10B	10"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-12B	12"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-15B	15"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-18B	18"	HD CONCAVE ROOT SAW BLADE ONLY
HCRS-20B	20"	HD CONCAVE ROOT SAW BLADE ONLY

ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

HEAVY DUTY FLAT ROOT SAW BLADES 3/16" THICK

HFRS-3B	3"	FLAT ROOT SAW BLADE ONLY
HFRS-4B	4"	FLAT ROOT SAW BLADE ONLY
HFRS-5B	5"	FLAT ROOT SAW BLADE ONLY
HFRS-6B	6"	FLAT ROOT SAW BLADE ONLY
HFRS-8B	8"	FLAT ROOT SAW BLADE ONLY
HFRS-10B	10"	FLAT ROOT SAW BLADE ONLY
HFRS-12B	12"	FLAT ROOT SAW BLADE ONLY
HFRS-15B	15"	FLAT ROOT SAW BLADE ONLY
HFRS-18B	18"	FLAT ROOT SAW BLADE ONLY
HFRS-20B	20"	FLAT ROOT SAW BLADE ONLY

ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

SPIRAL ROOT SAW BLADES 5/32" THICK

SRS-4B	4"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-6B	6"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-8B	8"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-10B	10"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-12B	12"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-15B	15"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY
SRS-18B	18"	SPIRAL ROOT SAW FOR 4" PIPE BLADE ONLY

ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

COLORADO STYLE SAW BLADE 3/16" THICK

H-CRS-7C	7"	OVERLAP COLORADO WHITE SAW
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CARBIDE SAW BLADES - LARGE DIAMETER

CARBIDE TIPPED CONCAVE ROOT SAWS

SCS-6	6"	CARBIDE TIPPED CONCAVE ROOT SAW BLADE ONLY. 3/16" THICK
SCS-8	8"	CARBIDE TIPPED CONCAVE ROOT SAW BLADE ONLY. 3/16" THICK
SCS-10	10"	CARBIDE TIPPED CONCAVE ROOT SAW BLADE ONLY. 3/16" THICK
SCS-12	12"	CARBIDE TIPPED CONCAVE ROOT SAW BLADE ONLY. 3/16" THICK
SCS-15	15"	CARBIDE TIPPED CONCAVE ROOT SAW BLADE ONLY. 3/16" THICK



CARBIDE TIPPED FLAT ROOT SAWS

SCFS-6	6"	CARBIDE TIPPED FLAT ROOT SAW BLADE ONLY. 3/16" THICK
SCFS-8	8"	CARBIDE TIPPED FLAT ROOT SAW BLADE ONLY. 3/16" THICK
SCFS-10	10"	CARBIDE TIPPED FLAT ROOT SAW BLADE ONLY. 3/16" THICK
SCFS-12	12"	CARBIDE TIPPED FLAT ROOT SAW BLADE ONLY. 3/16" THICK
SCFS-15	15"	CARBIDE TIPPED FLAT ROOT SAW BLADE ONLY. 3/16" THICK



CARBIDE TIPPED AND WRAPPED CONCAVE ROOT SAWS

SCS-6W	6"	CARBIDE TIPPED AND CARBIDE WRAPPED CONCAVE ROOT SAW
SCS-8W	8"	CARBIDE TIPPED AND CARBIDE WRAPPED CONCAVE ROOT SAW
SCS-10W	10"	CARBIDE TIPPED AND CARBIDE WRAPPED CONCAVE ROOT SAW
SCS-12W	12"	CARBIDE TIPPED AND CARBIDE WRAPPED CONCAVE ROOT SAW
SCS-15W	15"	CARBIDE TIPPED AND CARBIDE WRAPPED CONCAVE ROOT SAW



CARBIDE TIPPED WRAPPED FLAT ROOT SAWS

SCFS-6W	6"	CARBIDE TIPPED AND CARBIDE WRAPPED FLAT ROOT SAW
SCFS-8W	8"	CARBIDE TIPPED AND CARBIDE WRAPPED FLAT ROOT SAW
SCFS-10W	10"	CARBIDE TIPPED AND CARBIDE WRAPPED FLAT ROOT SAW
SCFS-12W	12"	CARBIDE TIPPED AND CARBIDE WRAPPED FLAT ROOT SAW
SCFS-15W	15"	CARBIDE TIPPED AND CARBIDE WRAPPED FLAT ROOT SAW



ANY SAW IS AVAILABLE WITH A WELDED ON 1" ARBOR HUB FOR \$60.00 ADD "WH" TO PART NUMBER

SUPER DUTY LARGE DIAMETER CONCAVE ROOT SAWS WITH SPOKES AND 1" HUB

SCRS-12	12"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB
SCRS-15	15"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB
SCRS-18	18"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB
SCRS-20	20"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB
SCRS-22	22"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB
SCRS-24	24"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB



SUPER DUTY LARGE DIAMETER FLAT ROOT SAW WITH SPOKES AND 1" HUB

SFRS-12	12"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB
SFRS-15	15"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB
SFRS-18	18"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB
SFRS-20	20"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB
SFRS-22	22"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB
SFRS-24	24"	FLAT HD SAW WITH 3 SPOKES AND 1" HUB



SUPER DUTY LARGE DIAMETER CARBIDE TIPPED ROOT SAWS WITH SPOKES AND 1" HUB

SCRS-12HD	12"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED
SCRS-15HD	15"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED
SCRS-18HD	18"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED
SCRS-20HD	20"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED
SCRS-22HD	22"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED
SCRS-24HD	24"	CONCAVE HD SAW WITH 3 SPOKES AND 1" HUB, CARBIDE TIPPED



SUPER DUTY LARGE DIAMETER SHAM STYLE SEGMENTED SAWS WITH SPOKES AND 1" HUB

SH-SAW-12	12"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT
SH-SAW-15	15"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT
SH-SAW-18	18"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT
SH-SAW-20	20"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT
SH-SAW-22	22"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT
SH-SAW-24	24"	SHAM STYLE SEGMENTED SAW W/ SPOKES AND 1" WELDED HUB/SHAFT



NOZZLE EXTENSIONS 1" - 3/4" - 1/2"

- SSE-1/2** STRAIGHT STYLE LIGHTWEIGHT NOZZLE EXTENSION 1/2" X 13" LONG
SSE-3/4 STRAIGHT STYLE LIGHTWEIGHT NOZZLE EXTENSION 3/4" X 13" LONG
SSE-1 STRAIGHT STYLE LIGHTWEIGHT NOZZLE EXTENSION 1" X 13" LONG



4-FINNED NOZZLE EXTENSIONS 1"

- FE-41** 4" 1" X 4" 4 FINNED NOZZLE EXTENSION
FE-61 6" 1" X 6" 4 FINNED NOZZLE EXTENSION
FE-81 8" 1" X 8" 4 FINNED NOZZLE EXTENSION
FE-101 10" 1" X 10" 4 FINNED NOZZLE EXTENSION
FE-121 12" 1" X 12" 4 FINNED NOZZLE EXTENSION
FE-151 15" 1" X 15" 4 FINNED NOZZLE EXTENSION

4-FINNED NOZZLE EXTENSIONS 3/4"

- FE-434** 4" 3/4" X 4" 4 FINNED NOZZLE EXTENSION
FE-634 6" 3/4" X 6" 4 FINNED NOZZLE EXTENSION
FE-834 8" 3/4" X 8" 4 FINNED NOZZLE EXTENSION
FE-1034 10" 3/4" X 10" 4 FINNED NOZZLE EXTENSION
FE-1234 12" 3/4" X 12" 4 FINNED NOZZLE EXTENSION

4-FINNED NOZZLE EXTENSIONS 1/2"

- FE-412** 4" 1/2" X 4" 4 FINNED NOZZLE EXTENSION
FE-612 6" 1/2" X 6" 4 FINNED NOZZLE EXTENSION
FE-812 8" 1/2" X 8" 4 FINNED NOZZLE EXTENSION
FE-1012 10" 1/2" X 10" 4 FINNED NOZZLE EXTENSION
FE-1212 12" 1/2" X 12" 4 FINNED NOZZLE EXTENSION

6-FINNED HEAVY DUTY NOZZLE EXTENSIONS

- FE-61-6** 6" 1" X 6" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION
FE-81-6 8" 1" X 8" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION
FE-101-6 10" 1" X 10" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION
FE-121-6 12" 1" X 12" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION
FE-151-6 15" 1" X 15" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION
FE-181-6 18" 1" X 18" 6 FINNED, 3/16" THICK HEAVY DUTY EXTENSION



6-WIRE NOZZLE EXTENSIONS 1"

- WNE-41** 4" 1" X 4" 6 WIRE NOZZLE EXTENSION
WNE-61 6" 1" X 6" 6 WIRE NOZZLE EXTENSION
WNE-81 8" 1" X 8" 6 WIRE NOZZLE EXTENSION
WNE-101 10" 1" X 10" 6 WIRE NOZZLE EXTENSION
WNE-121 12" 1" X 12" 6 WIRE NOZZLE EXTENSION
WNE-151 15" 1" X 15" 6 WIRE NOZZLE EXTENSION
WNE-181 18" 1" X 18" 6 WIRE NOZZLE EXTENSION
WNE-201 20" 1" X 20" 6 WIRE NOZZLE EXTENSION
WNE-241 24" 1" X 24" 6 WIRE NOZZLE EXTENSION

6-WIRE NOZZLE EXTENSIONS 3/4"

- WNE-434** 4" 3/4" X 4" 6 WIRE NOZZLE EXTENSION
WNE-634 6" 3/4" X 6" 6 WIRE NOZZLE EXTENSION
WNE-834 8" 3/4" X 8" 6 WIRE NOZZLE EXTENSION
WNE-1034 10" 3/4" X 10" 6 WIRE NOZZLE EXTENSION
WNE-1234 12" 3/4" X 12" 6 WIRE NOZZLE EXTENSION
WNE-1534 15" 3/4" X 15" 6 WIRE NOZZLE EXTENSION



3/8" THICK RAILS

6-WIRE NOZZLE EXTENSIONS 1/2"

- WNE-412** 4" 1/2" X 4" 6 WIRE NOZZLE EXTENSION
WNE-612 6" 1/2" X 6" 6 WIRE NOZZLE EXTENSION

4-WIRE NOZZLE EXTENSIONS 1"

- W4-1** 4" 1" X 4" 4 WIRE NOZZLE EXTENSION
W6-1 6" 1" X 6" 4 WIRE NOZZLE EXTENSION
W8-1 8" 1" X 8" 4 WIRE NOZZLE EXTENSION
W10-1 10" 1" X 10" 4 WIRE NOZZLE EXTENSION
W12-1 12" 1" X 12" 4 WIRE NOZZLE EXTENSION

4-WIRE NOZZLE EXTENSIONS 3/4"

- W4-34** 4" 3/4" X 4" 4 WIRE NOZZLE EXTENSION
W6-34 6" 3/4" X 6" 4 WIRE NOZZLE EXTENSION
W8-34 8" 3/4" X 8" 4 WIRE NOZZLE EXTENSION
W10-34 10" 3/4" X 10" 4 WIRE NOZZLE EXTENSION
W12-34 12" 3/4" X 12" 4 WIRE NOZZLE EXTENSION



4-WIRE NOZZLE EXTENSIONS 1/2"

W4-12	4"	1/2" X 4"	4 WIRE NOZZLE EXTENSION
W6-12	6"	1/2" X 6"	4 WIRE NOZZLE EXTENSION
W8-12	8"	1/2" X 8"	4 WIRE NOZZLE EXTENSION
W10-12	10"	1/2" X 10"	4 WIRE NOZZLE EXTENSION

FOOTBALL STYLE NOZZLE EXTENSIONS 1"

NFL-41	4"	1" X 4"	FOOTBALL NOZZLE EXTENSION
NFL-61	6"	1" X 6"	FOOTBALL NOZZLE EXTENSION
NFL-81	8"	1" X 8"	FOOTBALL NOZZLE EXTENSION
NFL-101	10"	1" X 10"	FOOTBALL NOZZLE EXTENSION
NFL-121	12"	1" X 12"	FOOTBALL NOZZLE EXTENSION
NFL-151	15"	1" X 15"	FOOTBALL NOZZLE EXTENSION

FOOTBALL STYLE NOZZLE EXTENSIONS 3/4"

NFL-434	4"	3/4" X 4"	FOOTBALL NOZZLE EXTENSION
NFL-634	6"	3/4" X 6"	FOOTBALL NOZZLE EXTENSION
NFL-834	8"	3/4" X 8"	FOOTBALL NOZZLE EXTENSION
NFL-1034	10"	3/4" X 10"	FOOTBALL NOZZLE EXTENSION
NFL-1234	12"	3/4" X 12"	FOOTBALL NOZZLE EXTENSION

FOOTBALL STYLE NOZZLE EXTENSIONS 1/2"

NFL-412	4"	1/2" X 4"	FOOTBALL NOZZLE EXTENSION
NFL-612	6"	1/2" X 6"	FOOTBALL NOZZLE EXTENSION
NFL-812	8"	1/2" X 8"	FOOTBALL NOZZLE EXTENSION
NFL-1012	10"	1/2" X 10"	FOOTBALL NOZZLE EXTENSION

SUPER SHORT 8" FOOTBALL STYLE NOZZLE EXTENSIONS FOR 1" HOSE

ALSO AVAILABLE FOR 3/4" HOSE

NFL-41SS	4"	FOOTBALL NOZZLE EXTENSION 8" LONG
NFL-61SS	6"	FOOTBALL NOZZLE EXTENSION 8" LONG
NFL-81SS	8"	FOOTBALL NOZZLE EXTENSION 8" LONG

NOZZLE EXTENSION WITH WHEELS 1"

WE-61	6"	1" WHEELED NOZZLE EXTENSION FOR 6" AND UP
WE-81	8"	1" WHEELED NOZZLE EXTENSION FOR 8" AND UP
WE-101	10"	1" WHEELED NOZZLE EXTENSION FOR 10" AND UP
WE-121	12"	1" WHEELED NOZZLE EXTENSION FOR 12" AND UP
WE-151	15"	1" WHEELED NOZZLE EXTENSION FOR 15" AND UP

NOZZLE EXTENSION WITH WHEELS 3/4"

WE-634	6"	3/4" WHEELED NOZZLE EXTENSION FOR
WE-834	8"	3/4" WHEELED NOZZLE EXTENSION FOR 8" AND UP
WE-1034	10"	3/4" WHEELED NOZZLE EXTENSION FOR 8" AND UP
WE-1234	12"	3/4" WHEELED NOZZLE EXTENSION FOR 8" AND UP
WE-1534	15"	3/4" WHEELED NOZZLE EXTENSION FOR 8" AND UP

HEAVY DUTY TUBE STYLE EXTENSION (12" LONG)

TSE-1/2	HEAVY DUTY TUBE STYLE NOZZLE EXTENSION 1/2"
TSE-3/4	HEAVY DUTY TUBE STYLE NOZZLE EXTENSION 3/4"
TSE-1	HEAVY DUTY TUBE STYLE NOZZLE EXTENSION 1"

SUPER SHORT 10 LEG PROOFERS (WELDED/NON REPLACEABLE)

ALL PROOFERS ARE 1/2" UNDER SIZE

S-6	6"	SHORT PROOFER <u>6" O.D X 1"</u> (14" LONG)
S-8	8"	SHORT PROOFER <u>8" O.D X 1"</u> (14" LONG)
S-10	10"	SHORT PROOFER <u>10" O.D X 1"</u> (17" LONG)
S-12	12"	SHORT PROOFER <u>12" O.D X 1"</u> (17" LONG)
S-15	15"	SHORT PROOFER <u>15" O.D X 1"</u> (19" LONG)
S-18	18"	SHORT PROOFER <u>18" O.D X 1"</u> (23" LONG)
S-20	20"	SHORT PROOFER <u>20" O.D X 1"</u> (24" LONG)
S-24	24"	SHORT PROOFER <u>24" O.D X 1"</u> (28" LONG)

LONG 10 LEG PROOFERS (REMOVABLE/REPLACEABLE)

ALL PROOFERS ARE 1/2" UNDER SIZE

L-6	6"	LONG PROOFER <u>6" O.D X 1"</u> (14" LONG)
L-8	8"	LONG PROOFER <u>8" O.D X 1"</u> (17" LONG)
L-10	10"	LONG PROOFER <u>10" O.D X 1"</u> (20" LONG)
L-12	12"	LONG PROOFER <u>12" O.D X 1"</u> (22" LONG)
L-15	15"	LONG PROOFER <u>15" O.D X 1"</u> (25" LONG)
L-18	18"	LONG PROOFER <u>18" O.D X 1"</u> (28" LONG)
L-20	20"	LONG PROOFER <u>20" O.D X 1"</u> (30" LONG)
L-24	24"	LONG PROOFER <u>24" O.D X 1"</u> (34" LONG)



3/8" THICK RAILS



SECTIONAL AND CONTINUOUS ROD, TOOLS AND ACCESSORIES

ADAPTER RODS

AR-1-1	<u>5/16"</u>	ADAPTER ROD (8" Long)
AR-1-2	<u>3/8"</u>	ADAPTER ROD (8" Long)
AR-1-SS	<u>5/16"</u>	SUPER SHORT (4" Long)
AR-1-2SS	<u>3/8"</u>	SUPER SHORT (4" Long)



PREMIUM PUMA RODS

STR-1-1	<u>5/16" X 36"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-2	<u>5/16" X 39"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-3	<u>5/16" X 48"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-4	<u>5/16" X 60"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-5	<u>5/16" X 72"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-6	<u>3/8" X 36"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-7	<u>3/8" X 39"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-8	<u>3/8" X 48"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-9	<u>3/8" X 60"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING
STR-1-10	<u>3/8" X 72"</u>	PREMIUM SEWER ROD COMPLETE WITH COUPLING



PUMA SILVER RODS

STB-1-1	<u>5/16" X 36"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-2	<u>5/16" X 39"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-3	<u>5/16" X 48"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-4	<u>5/16" X 60"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-5	<u>5/16" X 72"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-6	<u>3/8" X 36"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-7	<u>3/8" X 39"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-8	<u>3/8" X 48"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-9	<u>3/8" X 60"</u>	SEWER ROD COMPLETE WITH COUPLING
STB-1-10	<u>3/8" X 72"</u>	SEWER ROD COMPLETE WITH COUPLING



QUICK COUPLE RODS

ALL **5/16"** RODS ARE AVAILABLE WITH QUICK CONNECT DISCONNECT SPRING LOADED PIN COUPLINGS. PLEASE **ADD "R"** TO PART NUMBER AND **ADD \$13.00** TO EACH ROD OR TOOL
3/8" RODS NOT AVAILABLE WITH QUICK CONNECT!!

PIN-1 QUICK DISCONNECT TOOL FOR ABOVE QUICK COUPLE RODS



ROD TOOLS

PICK UP TOOLS

P1-1	<u>5/16"</u>	PICK UP TOOL FOR SECTIONAL ROD
P1-2	<u>3/8"</u>	PICK UP TOOL FOR SECTIONAL ROD
P1-3	<u>3/8"</u>	PICK UP TOOL FOR CONTINUOUS ROD



SPEAR HEADS

B2-1	2"	SPEAR HEAD WITH 5/16" ADAPTER ROD AND COUPLING
B2-2	2"	SPEAR HEAD WITH 3/8" ADAPTER ROD AND COUPLING
B4-1	4"	SPEAR HEAD WITH 5/16" ADAPTER ROD AND COUPLING
B4-2	4"	SPEAR HEAD WITH 3/8" ADAPTER ROD AND COUPLING



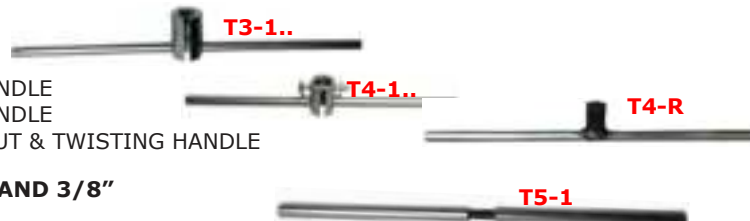
ASSEMBLY TOOLS

T1-1	<u>5/16"</u>	ASSEMBLY WRENCH
T1-2	<u>3/8"</u>	ASSEMBLY WRENCH
T2-1	<u>5/16"</u>	ASSEMBLY TURNING HANDLE
T2-2	<u>3/8"</u>	ASSEMBLY TURNING HANDLE



PULL OUT AND TURNING TOOLS

T3-1	<u>5/16"</u>	PULL OUT TOOL
T3-2	<u>3/8"</u>	PULL OUT TOOL
T4-1	<u>5/16"</u>	PULL OUT & TWISTING HANDLE
T4-2	<u>3/8"</u>	PULL OUT & TWISTING HANDLE
T4-R		QUICK CONNECT PULL OUT & TWISTING HANDLE
T5-1		BAR TURNING HANDLE FOR 5/16" AND 3/8"



ROD TOOLS

- T8 1/4" - 3/8" ROUND ROD PULL-OUT FITS TOOLS 1/4" TO 3/8"
- T11 5/16" ROD TURNING RATCHET SINGLE FOR 5/16" RODS
T12 5/16" ROD TURNING RATCHET ONE MAN DOUBLE
- T13 3/8" ROD TURNING RATCHET SINGLE FOR 3/8" RODS
T14 3/8" ROD TURNING RATCHET ONE MAN DOUBLE



SPECIAL BORING TOOLS

- T6-1 5/16" LOOP SWIVEL TOOL
T6-2 3/8" LOOP SWIVEL TOOL
- T7-1 5/16" SAND LEADER T7-2 & COUPLING SAND LEADER
T7-2 3/8" WITH ADAPTER ROD & COUPLING
- T9-1 5/16" BULLET TOOL WITH ADAPTER ROD
T9-2 3/8" BULLET TOOL WITH ADAPTER ROD
- T10-1 5/16" PILOT BULLET TOOL WITH PULLOUT SWIVEL WITH ADAPTER ROD
T10-2 3/8" PILOT BULLET TOOL WITH PULLOUT SWIVEL WITH ADAPTER ROD
- T15-1 5/16" "WINTERS" ROOT SAW COUPLING. COMBINE ANY 2 ROOT SAW
T15-2 3/8" "WINTERS" ROOT SAW COUPLING. COMBINE ANY 2 ROOT SAW



CONTINUOUS ROD TOOLS SEE NOTE:

Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod..

CLEANING TOOLS

ROUND WIRE CORKSCREWS

- F1-1 1-1/2" USE WITH 5/16" ROD
F1-2 1-1/2" USE WITH 3/8" ROD
F2-1 2" USE WITH 5/16" ROD
F2-2 2" USE WITH 3/8" ROD
F3-1 3" USE WITH 5/16" ROD
F3-2 3" USE WITH 3/8" ROD
F4-1 3-1/2" USE WITH 5/16" ROD
F4-2 3-1/2" USE WITH 3/8" ROD
F5-1 5" USE WITH 5/16" ADAPTER ROD
F5-2 5" USE WITH 3/8" ROD
F6-1 6" USE WITH 5/16" ADAPTER ROD
F6-2 6" USE WITH 3/8" ROD



DOUBLE ROUND WIRE CORKSCREWS

- FD3-1 3" USE WITH 5/16" ROD
FD3-2 3" USE WITH 3/8" ROD
FD4-1 4" USE WITH 5/16" ROD
FD4-2 4" USE WITH 3/8" ROD
FD6-1 6" USE WITH 5/16" ROD
FD6-2 6" USE WITH 3/8" ROD



SAND CORKSCREWS

- G-3-1 3" SAND CORKSCREW USE WITH 5/16" ROD
G-3-2 3" SAND CORKSCREW USE WITH 3/8" ROD



NOTE: For any cleaning tool you can buy the tool only less the coupling and adapter rod by adding a "B" after the part number

AUGERS

A2-1	2" AUGER FOR 5/16" ROD
A2-2	2" AUGER FOR 3/8" ROD
A3-1	3" AUGER FOR 5/16" ROD
A3-2	3" AUGER FOR 3/8" ROD
A4-1	4" AUGER FOR 5/16" ROD
A4-2	4" AUGER FOR 3/8" ROD
A5-1	5" AUGER FOR 5/16" ROD
A5-2	5" AUGER FOR 3/8" ROD
A6-1	6" AUGER FOR 5/16" ROD
A6-2	6" AUGER FOR 3/8" ROD
A8-1	8" AUGER FOR 5/16" ROD
A8-2	8" AUGER FOR 3/8" ROD
A10-1	10" AUGER FOR 5/16" ROD
A10-2	10" AUGER FOR 3/8" ROD



Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

SQUARE BAR CORKSCREWS

E2-1	2" SQUARE BAR CORKSCREW FOR 5/16" ROD
E2-2	2" SQUARE BAR CORKSCREW FOR 3/8" ROD
E3-1	3" SQUARE BAR CORKSCREW FOR 5/16" ROD
E3-2	3" SQUARE BAR CORKSCREW FOR 3/8" ROD
E4-1	4" SQUARE BAR CORKSCREW FOR 5/16" ROD
E4-2	4" SQUARE BAR CORKSCREW FOR 3/8" ROD
E5-1	5" SQUARE BAR CORKSCREW FOR 5/16" ROD
E5-2	5" SQUARE BAR CORKSCREW FOR 3/8" ROD
E6-1	6" SQUARE BAR CORKSCREW FOR 5/16" ROD
E6-2	6" SQUARE BAR CORKSCREW FOR 3/8" ROD
E8-1	8" SQUARE BAR CORKSCREW FOR 5/16" ROD
E8-2	8" SQUARE BAR CORKSCREW FOR 3/8" ROD
E8-4	8" HD SQUARE BAR CORKSCREW FOR 5/16"
E8-5	8" HD SQUARE BAR CORKSCREW FOR 3/8"
E10-1	10" SQUARE BAR CORKSCREW FOR 5/16" ROD
E10-2	10" SQUARE BAR CORKSCREW FOR 3/8" ROD
E12-1	12" SQUARE BAR CORKSCREW FOR 5/16" ROD
E12-2	12" SQUARE BAR CORKSCREW FOR 3/8" ROD



Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

ROOT SAWS

STANDARD DUTY CONCAVE ROOT SAW

CRS-3-1	3" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-3-2	3" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-4-1	4" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-4-2	4" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-5-1	5" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-5-2	5" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-6-1	6" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-6-2	6" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-8-1	8" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-8-2	8" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-10-1	10" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-10-2	10" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-12-1	12" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-12-2	12" CONCAVE ROOT SAW FOR 3/8" ROD
CRS-15-1	15" CONCAVE ROOT SAW FOR 5/16" ROD
CRS-15-2	15" CONCAVE ROOT SAW FOR 3/8" ROD



Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

NOTE: For any cleaning tool you can buy the tool only less the coupling and adapter rod by adding a "B" after the part number

STANDARD DUTY FLAT ROOT SAWS

FRS-3-1	3" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-3-2	3" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-4-1	4" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-4-2	4" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-6-1	6" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-6-2	6" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-8-1	8" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-8-2	8" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-10-1	10" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-10-2	10" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-12-1	12" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-12-2	12" STANDARD FLAT ROOT SAW FOR 3/8" ROD
FRS-15-1	15" STANDARD FLAT ROOT SAW FOR 5/16" ROD
FRS-15-2	15" STANDARD FLAT ROOT SAW FOR 3/8" ROD



Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

HEAVY DUTY CONCAVE ROOT SAWS

HCRS-3-1	3" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-3-2	3" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-4-1	4" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-4-2	4" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-5-1	5" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-5-2	5" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-6-1	6" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-6-2	6" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-8-1	8" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-8-2	8" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-10-1	10" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-10-2	10" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-12-1	12" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-12-2	12" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-15-1	15" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-15-2	15" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-18-1	18" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-18-2	18" HD CONCAVE ROOT SAW FOR 3/8" ROD
HCRS-20-1	20" HD CONCAVE ROOT SAW FOR 5/16" ROD
HCRS-20-2	20" HD CONCAVE ROOT SAW FOR 3/8" ROD



Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

HEAVY DUTY FLAT ROOT SAWS

HCFS-3-1	3" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-3-2	3" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-4-1	4" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-4-2	4" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-5-1	5" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-5-2	5" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-6-1	6" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-6-2	6" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-8-1	8" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-8-2	8" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-10-1	10" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-10-2	10" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-12-1	12" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-12-2	12" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-15-1	15" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-15-2	15" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-18-1	18" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-18-2	18" HD FLAT ROOT SAW FOR 3/8" ROD
HCFS-20-1	20" HD FLAT ROOT SAW FOR 5/16" ROD
HCFS-20-2	20" HD FLAT ROOT SAW FOR 3/8" ROD

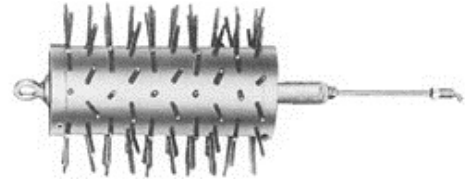


Set Screw Ends: For Set Screw Coupling Add "SS" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.
Direct Hook Ends: For Direct Hook End Add "DH" and Either 3 for .375, 4 for .393, 5 for .415 or 6 for .461 rod.

ADDITIONAL CLEANING TOOLS

PORCUPINES

D-4-1	4" PORCUPINE TURN TYPE FOR 5/16" ROD
D-4-2	4" PORCUPINE TURN TYPE FOR 3/8" ROD
D-6-1	6" PORCUPINE TURN TYPE FOR 5/16" ROD
D-6-2	6" PORCUPINE TURN TYPE FOR 3/8" ROD
D-8-1	8" PORCUPINE TURN TYPE FOR 5/16" ROD
D-8-2	8" PORCUPINE TURN TYPE FOR 3/8" ROD
D-10-1	10" PORCUPINE TURN TYPE FOR 5/16" ROD
D-10-2	10" PORCUPINE TURN TYPE FOR 3/8" ROD
D-12-1	12" PORCUPINE TURN TYPE FOR 5/16" ROD
D-12-2	12" PORCUPINE TURN TYPE FOR 3/8" ROD
D-15-1	15" PORCUPINE TURN TYPE FOR 5/16" ROD
D-15-2	15" PORCUPINE TURN TYPE FOR 3/8" ROD
D-18-1	18" PORCUPINE TURN TYPE FOR 5/16" ROD
D-18-2	18" PORCUPINE TURN TYPE FOR 3/8" ROD



PULL TYPE

ALSO AVAILABLE IN PULL TYPE. PP-6, PP-8, PP-10 ETC... SAME PRICE

SEWER BRUSH FOR SWABBING / FINISHING LINE

C-4-1	4" STEEL SEWER BRUSH FOR 5/16" ROD
C-4-2	4" STEEL SEWER BRUSH FOR 3/8" ROD
C-6-1	6" STEEL SEWER BRUSH FOR 5/16" ROD
C-6-2	6" STEEL SEWER BRUSH FOR 3/8" ROD
C-8-1	8" STEEL SEWER BRUSH FOR 5/16" ROD
C-8-2	8" STEEL SEWER BRUSH FOR 3/8" ROD
C-10-1	10" STEEL SEWER BRUSH FOR 5/16" ROD
C-10-2	10" STEEL SEWER BRUSH FOR 3/8" ROD
C-12-1	12" STEEL SEWER BRUSH FOR 5/16" ROD
C-12-2	12" STEEL SEWER BRUSH FOR 3/8" ROD



3 BLADE CUTTERS CHUCKS

CH-1-1	5/16"	CHUCK WITH ADAPTER ROD
CH-1-2	3/8"	CHUCK WITH ADAPTER ROD
CH-1-3	.375	CHUCK WITH SET SCREW CONNECTION
CH-1-4	.393	CHUCK WITH SET SCREW CONNECTION
CH-1-5	.415	CHUCK WITH SET SCREW CONNECTION
CH-1-6	.461	CHUCK WITH SET SCREW CONNECTION



SELECT CURVED BLADE FOR 3 BLADE CUTTER

CB-4	4" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-6	6" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-8	8" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-10	10" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-12	12" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-15	15" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
CB-18	18" CURVED BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>

FOR FULL SIZE ADD "FS" AND \$2.00 TO EACH BLADE



SELECT FLAT BLADES FOR 3 BLADE CUTTER

FB-4	4" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-6	6" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-8	8" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-10	10" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-12	12" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-15	15" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>
FB-18	18" FLAT BLADE FOR 3 BLADE CHUCK. PRICE <u>PER BLADE</u>

FOR FULL SIZE ADD "FS" AND \$2.00 TO EACH BLADE



POWER ROD DRIVE - TIER 2 PRODUCT

POWER DRIVES

- SPD-3** **3 HP** Power Drive Units Include Speed-Chuck, Specify 5/16" or 3/8"
- SPD-6.5** **6.5 HP** Power Drive Units Include Speed-Chuck, Specify 5/16" or 3/8"
- SPD-8** **8 HP** Power Drive Units Include Speed-Chuck, Specify 5/16" or 3/8"



TRAILER AND ACCESSORIES

- RR-1-1** Rod reel. Made from 1/2" round bar. 500' capacity. Can be used with either the tripod steel stand or trailer type
- RR-1-2** Rod reel stand street type. Guide tube with articulated elbow. 3 legs support the reel at perfect angle for pay-out
- RR-1-3** Rod reel stand trailer type. Same guide tube but the mounting plate to attach to trailer. Also can be modified to fit your truck
- RR-1-4** Lower manhole rigid rod guide. Connects to 1.5" pipe to allow the rods to enter the sewer at the correct angle
- RR-1-5** Foot jack support. Keeps pressure in the guide system by supporting the guide against back wall of manhole
- RR-1-6** Back jack support. Keeps pressure in the guide system by supporting the guide against back wall of manhole
- RR-1-7** Manhole jack support. Used to support the 1.5" guide tube against the manhole ring
- RR-1-8** Complete manhole set-up kit with 21' of galvanized. Comes with 21' of pipe in sections and RR1-4, RR1-5, RR1-6, and RR1-7
- H-10-1** Carry all trailer. Can carry all your tools, rods and powerdrive to the job site. Includes a lockable and an open tool box. Comes with a standard 2" ball hitch and swivel 3rd wheel



- H-11-1** Stop, tail & turning lights

- H-12-1** Pintle ring hitch

- H-13-1** Electric brakes



CONTINUOUS ROD AND RODDER

ACCESSORIES CONTINUOUS ROD GUIDE HOSES

LW-7	7'	Lightweight Hose Guide With Flex-Metallic Liner
LW-10	10'	Lightweight Hose Guide With Flex-Metallic Liner
LW-15	15'	Lightweight Hose Guide With Flex-Metallic Liner
LW-18	18'	Lightweight Hose Guide With Flex-Metallic Liner
LW-20	20'	Lightweight Hose Guide With Flex-Metallic Liner
LW-22	22'	Lightweight Hose Guide With Flex-Metallic Liner
LW-24	24'	Lightweight Hose Guide With Flex-Metallic Liner
LW-25	25'	Lightweight Hose Guide With Flex-Metallic Liner

HD-7	7'	Heavy Duty Hose Guide With Metallic Liner
HD-10	10'	Heavy Duty Hose Guide With Metallic Liner
HD-15	15'	Heavy Duty Hose Guide With Metallic Liner
HD-18	18'	Heavy Duty Hose Guide With Metallic Liner
HD-20	20'	Heavy Duty Hose Guide With Metallic Liner
HD-22	22'	Heavy Duty Hose Guide With Metallic Liner
HD-24	24'	Heavy Duty Hose Guide With Metallic Liner
HD-25	25'	Heavy Duty Hose Guide With Metallic Liner

HDS-7	7'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-10	10'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-15	15'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-18	18'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-20	20'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-22	22'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-24	24'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner
HDS-25	25'	Heavy Duty Hose Guide With Heavy Duty Steel Spring Liner

LW-15BF	15'	Below Freezing Hose Guide With Flex-Metallic Liner
LW-18BF	18'	Below Freezing Hose Guide With Flex-Metallic Liner
LW-20BF	20'	Below Freezing Hose Guide With Flex-Metallic Liner
LW-22BF	22'	Below Freezing Hose Guide With Flex-Metallic Liner
LW-24BF	24'	Below Freezing Hose Guide With Flex-Metallic Liner
LW-25BF	25'	Below Freezing Hose Guide With Flex-Metallic Liner



SPECIAL HD

CAM-LOCK ENDS With 2" heavy duty iron Cam-Lock fitting male end

add "**MI**" to part number or add female end add "**FI**" to part number

Example: **7'** light rod guide hose with male 2": heavy duty iron Cam Lock fittings part No. LW-7MI \$660.00 + \$120.00 = \$780.00

STEEL ENDS*

ANY ABOVE HOSE CAN BE ORDERED WITH STEEL ENDS BY ADDING "**SE**" TO PART NUMBER AND ADDING **\$150.00**, COMES WITH FEMALE END FOR HOSE GUIDE BELL AND STEEL MALE END FOR RODDING MACHINE

HGB	HOSE GUIDE BELL
SPB	SINGLE PRONG BRACE WITH CHAIN AND ROPE
SPR	SINGLE PRONG BRACE WITH RING AND ROPE
HGS	HOSE GUIDE STAND
SME	STEEL MALE END

SME-1M	STEEL END WITH STEEL 2" MALE CAMLOCK STEEL
SME-1F	END WITH STEEL 2" FEMALE CAMLOCK

SFE STEEL FEMALE FOR BELL FOR HOSE GUIDE BELL

SME STEEL MALE FOR BELL FOR HOSE GUIDE BELL

SCL-1 STEEL FEMALE X FEMALE STRAIGHT COUPLER

SCL-2 SET OF CLAMPS FOR ATTACHED STEEL ENDS TO HOSE

SCL-3 ALUMINUM BELL END FOR GUIDE HOSE

SCL-4 ALUMINUM MALE END FOR GUIDE HOSE

SCL-5 INSERT GUIDE

SCL-6 LIGHTWEIGHT FLEX-METALLIC LINER AND LW HOSE (PER FOOT)

SCL-7 HEAVY DUTY HOSE WITH FLEX-METALLIC LINER (PER FOOT)

SCL-8 FLEX-METALLIC LINER ONLY (PER FOOT)



CONTINUOUS ROD TIER 2 PRODUCT

CONTINUOUS ROD PRICE PER FOOT

STC-1-2	0.375 Continuous Rod
STC-1-3	0.393 Continuous Rod
STC-1-5	0.461 Continuous Rod



CONTINUOUS ROD TRANSFER RACK

CRTR-1 6 SPOKE HEAVY DUTY TRANSFER RACK. 6 SPOKE AND GUIDE ARM

SRK-1	0.375 Rod Bending Kit
SRK-2	0.393 Rod Bending Kit
SRK-4	0.461 Rod Bending Kit



ADAPTER COUPLINGS

ADAPTER COUPLINGS FOR CONNECTING CONTINUOUS ROD TO TOOLS

AC-1-1	0.375 Set screw type, to 3/8" COARSE RH THREAD
AC-1-2	0.393 Set screw type, to 3/8" COARSE RH THREAD
AC-1-4	0.461 Set screw type, to 3/8" COARSE RH THREAD
AC-2-1	0.375 Fine LH thread Hook , to 5/16" COARSE RH THREAD
AC-2-2	0.393 Fine LH thread Hook , to 5/16" COARSE RH THREAD
AC-2-4	0.461 Fine LH thread Hook , to 5/16" COARSE RH THREAD
AC-3-1	0.375 Set screw type, to 5/16" COARSE RH THREAD
AC-3-2	0.393 Set screw type, to 5/16" COARSE RH THREAD
AC-3-4	0.461 Set screw type, to 5/16" COARSE RH THREAD
AC-4-1	0.375 Fine LH thread hook , to 3/8" COARSE RH THREAD
AC-4-2	0.393 Fine LH thread hook , to 3/8" COARSE RH THREAD
AC-4-4	0.461 Fine LH thread hook , to 3/8" COARSE RH THREAD
AC-5-1	5/16" LH Fine thread Hook to 3/8" COARSE RH THREAD



CN-1-1	5/16" Coarse Thread Right Hand Nut
CN-1-2	5/16" Fine thread Left Hand Nut
CN-1-3	3/8" Coarse Thread Left Hand Nut
CN-1-4	3/8" Fine Thread Left Hand Nut
CN-1-5	0.375 Coarse Thread Right Hand Nut
CN-1-6	0.375 Fine thread Left Hand Nut
CN-1-7	0.393 Coarse Thread Right Hand Nut
CN-1-8	0.393 Fine Thread Left Hand Nut
CN-1-11	0.461 Coarse Thread Right Hand Nut
CN-1-12	0.461 Fine Thread Left Hand Nut

Fine Thread

Coarse Thread



City Coupling



CC-1-1, 2

COUPLINGS FOR SECTIONAL AND CONTINUOUS ROD

CC-1-1	5/16" LH fine x RH Coarse Coupling
CC-1-2	3/8" LH fine x RH Coarse Coupling

COUPLINGS FOR SQUARE STOCK CORKSCREW

CS-1-1	5/16" To Be Used With Adapter Rods
CS-1-2	3/8" To Be Used With Adapter Rods
CS-1-3	0.375 To Be used with Set Screw Connection
CS-1-4	0.393 To Be used with Set Screw Connection
CS-1-6	0.461 To Be used with Set Screw Connection
CS-1-7	0.375 To Be used with Hook Type Connection
CS-1-8	0.393 To Be used with Hook Type Connection
CS-1-10	0.461 To Be used with Hook Type Connection



CS-1-1,-2



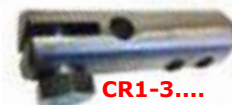
CS-1-3....

COUPLINGS FOR STANDARD ROOT SAW

CR1-1	5/16" To Be Used With Adapter Rods
CR1-2	3/8" To Be Used With Adapter Rods
CR1-3	0.375 To Be used with Set Screw Connection
CR1-4	0.393 To Be used with Set Screw Connection
CR1-6	0.461 To Be used with Set Screw Connection
CR1-7	0.375 To Be used with Hook Type Connection
CR1-8	0.393 To Be used with Hook Type Connection
CR1-10	0.461 To Be used with Hook Type Connection



CR1-1-1,-2



CR1-3....

QUICK CONNECT COUPLINGS

QCP-1	5/16" Quick Connect Female Coupling for 5/16" Rods
QCM-1	5/16" Quick Connect Male Coupling for 5/16" Rods
QCF-2	1/4" Quick Connect Female Coupling for 1/4" Rods
QCM-2	1/4" Quick Connect Male Coupling for 1/4" Rods



COUPLINGS FOR HD ROOT SAWS

CRHD-1	5/16"	To Be Used With Adapter Rods
CRHD-2	3/8"	To Be Used With Adapter Rods
CRHD-3	0.375	To Be used with Set Screw Connection
CRHD-4	0.393	To Be used with Set Screw Connection
CRHD-6	0.461	To Be used with Set Screw Connection
CRHD-7	0.375	To Be used with Hook Type Connection
CRHD-8	0.393	To Be used with Hook Type Connection
CRHD-9	0.415	To Be used with Hook Type Connection
CRHD-10	0.461	To Be used with Hook Type Connection



COUPLINGS FOR AUGERS 2", 3" & 4"

CA-1-1	5/16"	To Be Used With Adapter Rods
CA-1-2	3/8"	To Be Used With Adapter Rods
CA-1-3	0.375	To Be used with Set Screw Connection
CA-1-4	0.393	To Be used with Set Screw Connection
CA-1-6	0.461	To Be used with Set Screw Connection
CA-1-7	0.375	To Be used with Hook Type Connection
CA-1-8	0.393	To Be used with Hook Type Connection
CA-1-9	0.415	To Be used with Hook Type Connection
CA-1-10	0.461	To Be used with Hook Type Connection



COUPLINGS FOR AUGERS 6", 10" AND UP

CA-2-1	5/16"	To Be Used With Adapter Rods
CA-2-2	3/8"	To Be Used With Adapter Rods
CA-2-3	0.375	To Be used with Set Screw Connection
CA-2-4	0.393	To Be used with Set Screw Connection
CA-2-6	0.461	To Be used with Set Screw Connection
CA-2-7	0.375	To Be used with Hook Type Connection
CA-2-8	0.393	To Be used with Hook Type Connection
CA-2-9	0.415	To Be used with Hook Type Connection
CA-2-10	0.461	To Be used with Hook Type Connection



NO. 5 PLUMBER RODS

P5-13 1/4" X 6' No. 5 PLUMBERS RODS. HEX COUPLING AND 1/4" X 6' LONG. SILVER CHROME COATED ROD



- P5-1** FRAME ONLY MADE TO **ACCOMMODATE 17-25 RODS**
- P5-2** 2" ROUND WIRE "COILED" CORKSCREW FOR USE WITH 1/4" HEX COUPLING RODS
- P5-2M** 2" ROUND WIRE "COILED" CORKSCREW FOR USE WITH 5/16" CITY COUPLING RODS
- P5-3** 3" DOUBLE ROUND WIRE "COILED" CORKSCREW FOR USE WITH 1/4" HEX COUPLING RODS
- P5-3M** 3" DOUBLE ROUND WIRE "COILED" CORKSCREW FOR USE WITH 5/16" CITY COUPLING RODS
- P5-4** 4" ROUND WIRE "COILED" CORKSCREW FOR USE WITH 1/4" HEX COUPLING RODS
- P5-4M** 4" ROUND WIRE "COILED" CORKSCREW FOR USE WITH 5/16" CITY COUPLING RODS
- P5-5-2** 2" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 1/4" HEX COUPLING RODS
- P5-5-2M** 2" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 5/16" CITY COUPLING RODS
- P5-5-3** 3" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 1/4" HEX COUPLING RODS
- P5-5-3M** 3" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 5/16" CITY COUPLING RODS
- P5-5-4** 4" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 1/4" HEX COUPLING RODS
- P5-5-4M** 4" ROOT CUTTER "COILED" WITH SPADE BLADE FOR USE WITH 5/16" CITY COUPLING RODS
- P5-6** 2" SPEAR HEAD "COILED" FOR USE WITH 5/16" CITY COUPLING RODS
- P5-6M** 2" SPEAR HEAD "COILED" FOR USE WITH 1/4" HEX COUPLING RODS
- P5-7** PICK-UP TOOL WITH "COILED" PIG TAIL FOR USE WITH 1/4" HEX COUPLING RODS
- P5-7M** PICK-UP TOOL WITH "COILED" PIG TAIL FOR USE WITH 5/16" CITY COUPLING RODS
- P5-8** ASSEMBLY TOOL FOR NO. 5 RODS
- P5-9** ELECTRIC DRILL ADAPTER
- P5-10** PULL OUT TURNING HANDLE



COMPLETE NO. 5 SET IS COMPRISED OF:

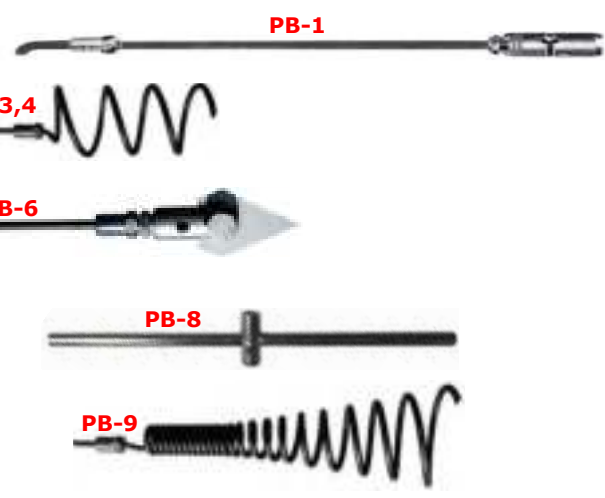
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| 17ea. P5-15-13 (1/4" X 6' RODS) | 1ea. P5-4 (4" CORKSCREW) | 1ea. P5-8 (ASSEMBLY TOOL) |
| 1ea. P5-1 (ROD FRAME) | 1ea. P5-5-3 (3" ROOT CUTTER) | 1ea. P5-9 (ELECTRICK DRILL ADAPTER) |
| 1ea. P5-2 (2" CORKSCREW) | 1ea. P5-6 (2" SPEAR HEAD) | 1ea. P5-10 (TURNING HANDLE) |
| 1ea. P5-3 (3" DOUBLE ROUNDWIRE) | 1ea. P5-7 (PICK-UP TOOL) | |

ADD "B" TO ANY TOOL ABOVE FOR A PIG TAIL WITH A "B" NUT, AND ADD \$3.00 (LIST)
ADD "M" TO ANY ABOVE CLEANING TOOL FOR A 5/16" PIGTAIL FOR AN ADDITIONAL \$15.00 (LIST)



"B" PLUMBERS RODS AND TOOLS

- PB-1** 1/4" X 6' "B" ROD COMPLETE (ROUND COUPLING)
High strength Electro-statically charged flexible **Black** Sewer Rod
- PB-2** PICK UP TOOL
- PB-3** 4" CORKSCREW
PB-4 2" CORKSCREW
- PB-5-3** 3" ROOT CUTTER
PB-5-4 4" ROOT CUTTER
PB-5-2 2" ROOT CUTTER
- PB-6** 2" SPEAR HEAD
PB-7 ASSEMBLY TOOL
PB-8 TURNING HANDLE



- PB-9** 4" TAPERED CORKSCREW (**NOT IN SET BELOW**)
PB-10 2" TAPERED CORKSCREW (**NOT IN SET BELOW**)

PB-SET COMPLETE "B" PLUMBERS SET



SET INCLUDES 17 RODS AND 1 EACH OF ALL TOOLS ABOVE EXCEPT PB-9, PB-10 AND PB-5-2

SPECIAL COILED SPRING ITEMS

- SSU-1** 1" O.D. OF 1/4" WIRE X 12" LONG WITH RH X LH 5/16" NUTS
SSU-2 UNIVERSAL SPRINGS 1.25" DIA X 12" LONG WITH 5/16" LHXRH
SSCCR-3 1" X 3' COILED ROD WITH RH X LH 5/16" NUTS
SCR-25 1" X 25' COILED ROD WITH 5/16" PIGS TAILS EACH SIDE
SCR-3A 1" X 3' COILED ROD WITH AUGER COUPLING X 5/16" PIG
PF-7 1" X 25' COILED ROD 1/4" PLUMBER TOOL MALE X FEMALE
PF-20M 1" X 3' LONG COILED ROD WITH 3" ROOT SAW X 5/16"
PF-21M 1" X 3' LONG COILED ROD WITH 4" ROOT SAW X 5/16"
PF-22M 1" X 3' LONG COILED ROD WITH 6" ROOT SAW X 5/16"
PF-8 1" FEMALE COILED ROD COUPLER
PF-9 1" MALE COILED ROD COUPLER



VALVES AND SWIVELS

VALVES

- BHK-1-2** 1" 2-WAY BLOCK STYLE BALL VALVE 5000 PSI
BHK-3/4-2 3/4" 2-WAY BLOCK STYLE BALL VALVE 5000 PSI
BHK-1-1/4-2 1 1/4" 2-WAY BLOCK STYLE BALL VALVE 5000 PSI
BHK-1-3 1" 3-WAY BLOCK STYLE BALL VALVE 5000 PSI
BHK-3/4-3 3/4" 3-WAY BLOCK STYLE BALL VALVE 5000 PSI



HOSE REEL SWIVELS (TIER 2 PRODUCT)

- SSE-34E** 3/4" 90° SWIVEL
SSE-1E 1" 90° SWIVEL
SSE-12E 1 1/4" 90° SWIVEL



- SSE-34-1-RKIT** INCLUDES SEALS, BEARINGS AND BACK-UP RING for 3/4" or 1" Swivel
SSE-125-RKIT INCLUDES SEALS, BEARINGS AND BACK-UP RING for 1 1/4" Swivel



MANHOLE HOOKS

POOK DOUBLE SIDED PICK AND MANHOLE HOOK

This is the famous Pook that is well known in cities across America for those who want the toughest manhole hook. Hook and Pick combined to make a "Pook". One side of the 2 sided head is a sharp pick to chip away at asphalt or any other hard surface. The other side has a hook that has the perfect angle to fit in the hole and lift up any manhole lid. This complete unit is made from 4130 high carbon steel that is heat treated to exacting numbers. The handle is 3/4" thick!! Nice triangle flat against your palm. Powder coated safety orange



- MSRH-1** MANHOLE HOOK, 9/16" HARDENED STEEL **TRIANGLE HANDLE, 39" LONG, 90°**
- MSRH-2** MANHOLE HOOK, 9/16" HARDENED STEEL **TRIANGLE HANDLE, 27" LONG, FLAT**
- MSRH-3** MANHOLE HOOK, 9/16" HARDENED STEEL **TRIANGLE HANDLE, 39" LONG, FLAT**
- MSRH-4** MANHOLE HOOK, 9/16" HARDENED STEEL **TRIANGLE HANDLE, 27" LONG, 90°**

MSRT-1 "T" HANDLE MANHOLE HOOK, 39" LONG WITH RADIUS (NEW DESIGN)



SPECIALTY TOOLS NOT OTHERWISE ACCOUNTED FOR

FIBERGLASS POLE SUPPORT BRACKET

- M-730** POLE SUPPORT BRACKET WITH WINGED HINGE
This handy tool will keep your pole supported above manhole rim. Hinged in middle so it folds up and is easy to store. Interior rubber gasket keeps pole in place.



INSERT NOZZLE GUIDE



- 1) Place hose in jaws 2) Close Jaws around hose 3) Lower the guide into place 4) Pull rope and release hose and nozzle**

This device connects to our interlocking pole systems. Essentially it will grab and lock the end of your hose where the nozzle is so the operator can put it where he wants. The sewer or duct might be submerged, blind, raised or dropped. Once you have the nozzle securely attached in the jaws you can lower the hose and nozzle into the manhole to the depth you need. At this point you just direct the end of the guide into the sewer line and insert it. At this point you can open the water flow so that your nozzle will take off in the line once you open the guide jaws. With a slight "tug" on the rope you will open the jaws and release the hose and nozzle. YOU'RE DONE. PULL UP GUIDE TO THE STREET.

ING-SS INSERT GUIDE ONLY. INCLUDES 25' NYLON ROPE. CONNECTS TO OUR QUICK CONNECT POLE SYSTEM.

ING-SS-24K INSERT NOZZLE GUIDE KIT INCLUDES 25' FIBERGLASS POLES AND 25' NYLON ROPE



ING-SS SHOWN WITH HOSE AND NOZZLE IN JAWS

PULL THE ROPE AND JAWS RELEASE

ING-SS

PLASTIC MANHOLE PROTECTION RING

MPR-75 19" TO 22" MANHOLE PROTECTION RING

MPR-100 24" TO 27" MANHOLE PROTECTION RING

MPR-125 30" TO 34" MANHOLE PROTECTION RING



ANTI-SPLASH MANHOLE SAFETY COVER FOR VIDEO INSPECTION AND SEWER HOSE CLEANING

CONCERNED ABOUT SEWER MIST? THESE NEW TOP GRILLS HELPS PROTECT OPERATORS HEALTH WITH BUILT IN PLEXIGLASS UNDER COVERS. HELPS PREVENT SEWER MIST FROM BECOMING AIRBORNE TO REDUCE OPERATOR EXPOSURE

This lightweight, All Aluminum manhole safety roller cover not only reduces the possibility of falling into the manhole but REDUCES the possibility of EXPOSURE by keeping sewer splash and mist in the manhole where it belongs

CO-2436A PLEXY-PROTECTION GRILL FOR JETTING AND VACUUMING. FOR 24"-36" WITH ALUMINUM ROLLER

CO-2436N PLEXY-PROTECTION GRILL FOR JETTING AND VACUUMING. FOR 24"-36" WITH NYLON ROLLER



Aluminum Roller



Nylon Roller



CO-24A 24" PLEXY-PROTECTION GRILL FOR JETTING ONLY WITH ALUMINUM ROLLER

CO-24N 24" PLEXY-PROTECTION GRILL FOR JETTING ONLY WITH NYLON ROLLER



Aluminum Roller



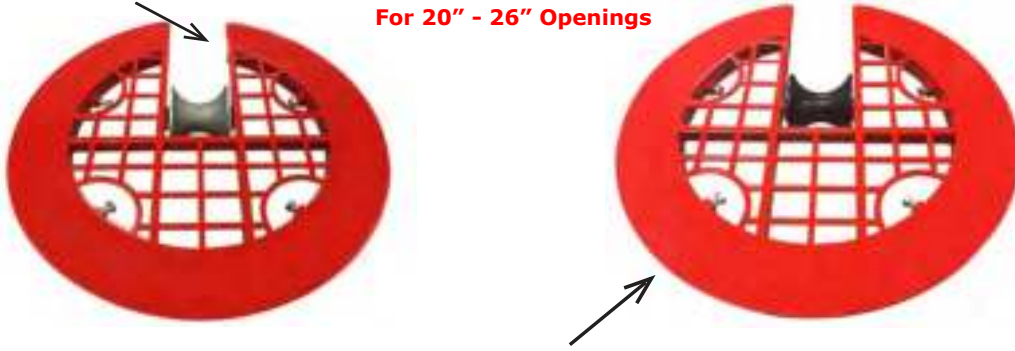
Nylon Roller



ALUMINUM ROLLER GRILL MANHOLE SAFETY COVER FOR VIDEO INSPECTION AND SEWER HOSE CLEANING

SMR-28A This lightweight all aluminum manhole safety roller grill reduces the possibility to zero of falling into the manhole. Made of aluminum with an aluminum roller and powder coated red it is easy to see. Unique design has hand opening to allow tightening of 4 support screws. Just 15 lbs.

For 20" - 26" Openings



SMR-28N SAME ALUMINUM ROLLER GRILL MANHOLE SAFETY COVER WITH HIGH DENSITY NYLON ROLLER FOR EVEN LIGHTER WEIGHT. **JUST 11 LBS.**

SMR-36N 36" Aluminum roller grill manhole safety cover but with High Density Nylon roller for a total weigh of **only 20 lbs.**

SMR-36A Same as above 36" Aluminum roller Grill with Aluminum roller weighing **only 22 lbs.**

The 36" Aluminum Roller will fit Openings 26" to 34"



MAGNETIC BOOM MANHOLE LIFTER

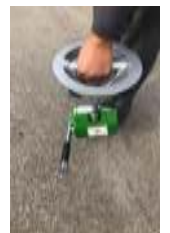
Easily attaches to the end of your boom hose. Either flat flange, male or female *BAND-LOCK* type. **Weights 25lbs with 600lbs. capacity.**

- **Attach to Boom**
- **Lower onto Manhole lid**
- **Lift off and Detach.**

- MBL-61** LIFTER WITH **6"** FLAT FLANGE 'VACTOR - VAC-CON'
- MBL-81** LIFTER WITH **8"** FLAT FLANGE 'VACTOR - VAC-CON'

ALSO AVAILBLE WITH "FEMALE CAMEL/VAC-ALL AND MALE CAMEL/VAC-ALL

- MHL-6** **6"** FLAT FLANGE LIFTER 'VACTOR - VAC-CON' W/O MAGNET
- MHL-8** **8"** FLAT FLANGE LIFTER 'VACTOR - VAC-CON' W/O MAGNET





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