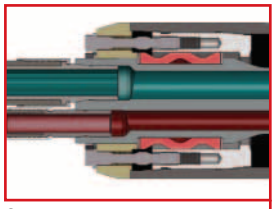
# HAMMERHEAD®

## STILL TOUGH. STILL TRUSTED.

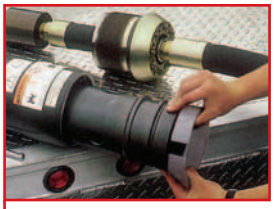

HAMMERHEAD®
TRENCHLESS EQUIPMENT

ULTIMATE PERFORMANCE ON YOUR MOST EXTREME JOB SITES

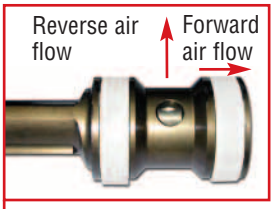
# PIPE RAMMING SYSTEMS



Secure, patented clamped rear anvil prevents assembly failure



Wear rings increase tool performance and durability




Dependable true air reverse controlled above ground

Full line of pipe ramming and HDD assist accessories

Pushing collets and convenient collet lifters


Field replaceable whip hoses to keep you on the job*

One piece body construction for strength and durability

Heaviest striker in the industry means more power per blow!

Highest operating pressure in the industry means more ramming power!

| FEATURE | BENEFIT |
|---|---|
| True Air Reverse | Powerful and reliable true air reverse technology is controlled above ground preventing internal mechanism failure that is common in competitors' tools. All HammerHead tools have a reverse feature that simplifies tool removal from pushing collets unlike other tools in the market that require violently striking the exterior of the tool with the extreme force of an excavator bucket. |
| Clamped Rear Anvil | Provides for fast and easy field maintenance, the hallmark of all HammerHead ramming tools. This secure joint prevents rear assembly failure common in competitive designs that both damages the tool and halts production. |
| Pushing Collets and Collars | The exclusive HammerHead collet and collar system locks the rammer into the casing eliminating the need for support cradles. This exclusive design also helps to distribute the impact of the rammer evenly which reduces casing flaring which is common to competitive tapered cone designs. |
| Wear Rings | Eliminates internal metal to metal contact, decreasing wear while offering high performance. |
| Accessories | A wide variety of pipe ramming accessories are available to make your job more efficient including; lubrication systems, seal kits, balanced collet lifters, pipe pigs and ram collars. |
| Versatility | Designed for pipe ramming, culvert replacement, multiple HDD assist methods, piling installation or driving piling and pipe bursting projects. |

**SWALLOW LARGE COBBLE, ROCKS & OTHER MATERIALS!**

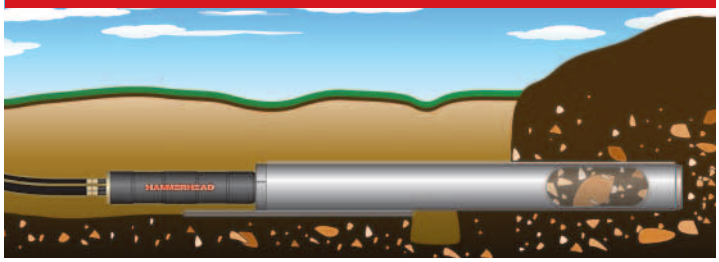
Pipe ramming is the method of choice in cobble or free flowing soil conditions. Compared to conventional methods, pipe ramming cuts down on set-up time and offers lower equipment costs and reduced maintenance costs.In cobble, rammed pipe can swallow the material whole including large rocks and cobble, keeping the casing size to a minimum and saving cost on the job. In free flowing soils, the material is not removed until after the casing is installed, reducing risk of creating voids.

**TRUST EXPERIENCED HAMMERHEAD ENGINEERS AND PRODUCT SUPPORT SPECIALISTS TO EVALUATE YOUR NEXT PROJECT**

HAMMERHEAD® PIPE RAMMING SYSTEMS

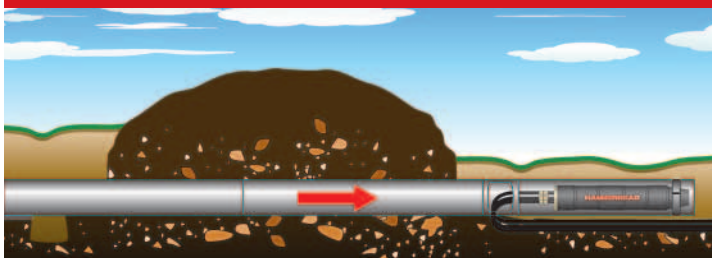
# ONE HAMMER, SO MANY DIFFERENT APPLICATIONS.

## CONVENTIONAL PIPE RAMMING METHOD



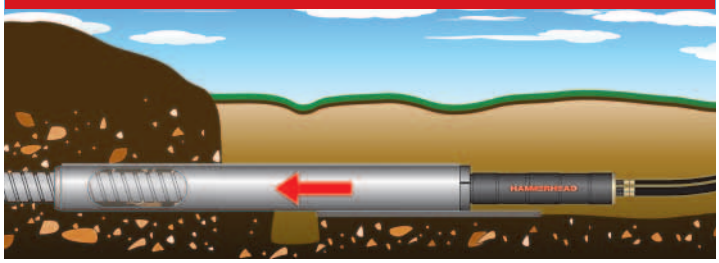
Pipe Ramming is an excellent, cost efficient method for placing steel casing under roads, railroads, finished landscapes and structures. The casing is installed open ended and cleaned out after installation is complete.

## SLICK BORING METHOD



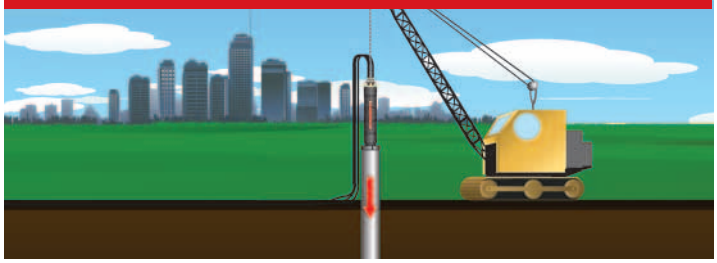
After installing a bore pipe using the conventional pipe ramming method, a new product pipe is pulled in using the pipe extraction method. This method is commonly used when specifications call for little or no impact on the carrier pipe weldments.

## CULVERT SWALLOWING METHOD



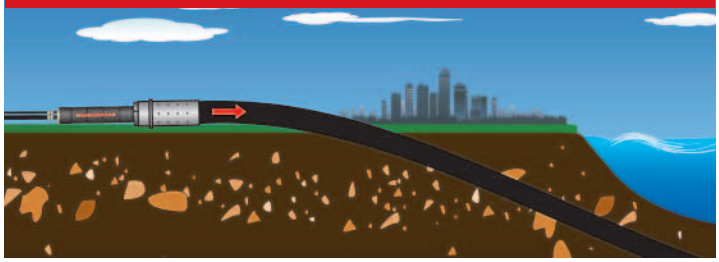
Replace deteriorating or over capacity culverts without disruption to roads, railroads, and other structures. Ram a steel casing over the existing culvert and clean out to complete the installation.

## PILING/PIPE DRIVING METHOD



HammerHead rammers are a cost effective means to drive steel casings vertically, creating foundations or ground stabilization pilings.

## PULLBACK ASSIST METHOD

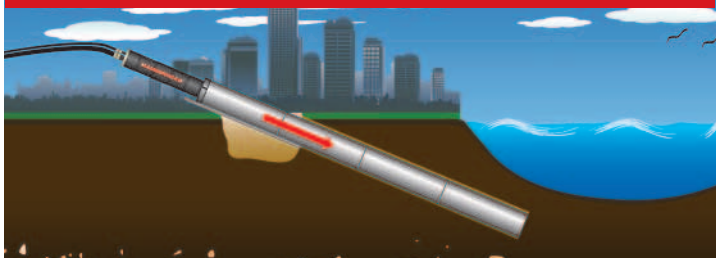


Free up hydro-locked or immovable pipe. The rammer is attached to product pipe during pullback and impact force assists HDD pullback to complete long and difficult projects.

## PIPE EXTRACTION METHOD

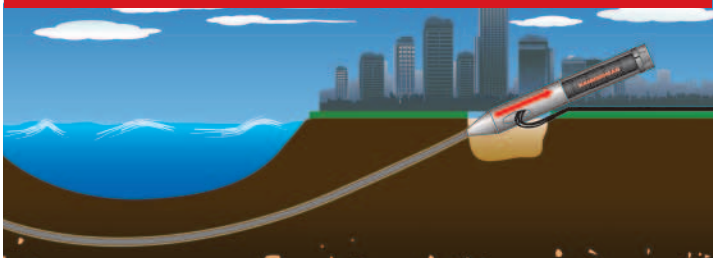
Recover your product pipe using the extraction method. The impact force of the rammer is combined with static pullback to extract product pipe so you can save expensive pipe and bore again.

## WASHOVER CASING METHOD



Start your job off right in tough conditions. Casings are rammed through difficult soil conditions to more desirable drill starting points. The rammed casing provides a path for recycling of drill fluids and a friction free section for product pullback.

## DRILL STEM RECOVERY METHOD



Recover your expensive, stuck drill stems! Attach the rammer to the drill stem with a fabricated adapter. The impact force of the rammer combined with static pullback is used to extract stuck drill stems.

**GO TO HAMMERHEADTRENCHLESS.COM FOR PROCESS SPECIFICATIONS AND FREE PROJECT EVALUATION QUESTIONNAIRES**

HAMMERHEAD® PIPE RAMMING SYSTEMS

# EXPERIENCED ON THE WORLD'S TOUGHEST JOB SITES

### ROCKVALE, MINNESOTA, USA

Project: New culvert under Rail track
Specifications: 30" & 60" steel casing
Equipment: 24" pipe ramming hammer

### NORMANGEE, TEXAS, USA

Project: Pullback assist – gas pipeline installation
Specifications: 2,800' of 36" casing
Equipment: 24" pipe ramming hammer

### MAXWELL CREEK, WASHINGTON, USA

Project: Gas Pipeline (natural gas main)
Specifications: 349' of 42" casing
Equipment: 24" pipe ramming hammer

### MA WAN CHANNEL, HONG KONG, CHINA

Project: Washover casing installation, HDD assist
Specifications: 2 – 54" casings 66' at a 20° angle
Equipment: 24" pipe ramming hammer

### MORDEN, MANITOBA, CANADA

Project: Slick bore – Bannister oil pipeline project
Specifications: 360' of 36" steel casing
Equipment: 24" pipe ramming hammer

### CARACAS, VENEZUELA

Project: Pipe bridge culvert under military runway
Specifications: 26 rams of 24" steel pipe 60m
Equipment: 16" and 24" pipe ramming hammers

## EQUIPMENT SPECIFICATIONS

| Model | Diameter in (mm) | Length in (m) | Weight lb (kg) | Air cfm (m3/min) | Tailbolt Access | Pressure psi (bar) | Reverse | Blows Per Min. | Rec. Pipe Ram Size in (cm)** | Rec. HDD Assist Drill Class |
|---|---|---|---|---|---|---|---|---|---|---|
| 4.00" (98) RH SR | 3.88 (98) | 63.95 (1.62) | 136 (62) | 68 (1.9) | 6 | 110 (7.6) | 7 turns | 370 | 2-4 (5-10) | n/a |
| 5.125" (130) SR | 5.13 (130) | 65.92 (1.67) | 214 (97) | 98 (2.8) | 8 | 110 (7.6) | 7 turns | 333 | 4-8 (10-20) | n/a |
| 5.50" (140) SR † | 5.50 (140) | 63.95 (1.62) | 170 (77) | 68 (1.9) | 6 | 110 (7.6) | 7 turns | 370 | 2-4 (5-10) | n/a |
| 5.75" (145) SR | 5.75 (145) | 79.5 (2.01) | 305 (138) | 132 (3.7) | 8 | 110 (7.6) | 9 turns | 300 | 6-12 (10-30) | n/a |
| 7.00" (180) AR | 7.00 (180) | 81.0 (2.06) | 511 (232) | 235 (6.7) | 8 | 110 (7.6) | Air Reverse | 295 | 8-20 (15-50) | 24K |
| 8.00" (200) AR | 8.00 (200) | 105.0 (2.67) | 900 (408) | 308 (8.7) | 12 | 110 (7.6) | Air Reverse | 223 | 8-24 (20-60) | 24-50K |
| 12.00" (300) AR | 12.00 (300) | 91 (2.31) | 1,568 (711) | 600 (17.0) | 16 | 110 (7.6) | Air Reverse | 256 | 12-30 (30-75) | 33-80K |
| 16.00" (400) AR | 16.00 (400) | 97 (2.45) | 2,701 (1,225) | 1,050 (29.7) | 20 | 110 (7.6) | Air Reverse | 231 | 16-48 (30-120) | 80K |
| 20.00" (500) AR | 20.00 (500) | 108.4 (2.75) | 5,750 (2,608) | 1,290 (36.5) | 24 | 110 (7.6) | Air Reverse | 190 | 20-54 (50-140) | 80-150K |
| 26.00" (650) XPR | 25.60 (650) | 138 (3.51) | 12,500 (5,670) | 3,000 (84.9) | 32 | 110 (7.6) | Air Reverse | 162 | 24-84 (61-213) | 150K and Larger |
| 34.00" (860) AR | 34.00 (860) | 166 (4.22) | 27,500 (12,474) | 4,800 (135.9) | 34 | 110 (7.6) | Air Reverse | 120 | 36-180 (90-145) | 450K and Larger |

*12" and 26" Tools are not field replaceable. **Maximum ramming lengths vary based on pipe diameter installed, ground conditions and ramming tool used to install the pipe.
†Bulbed tool. Contact your HammerHead representative for more detailed tool vs. ram length information. RH–Replaceable Head, SR–Screw Reverse, AR–Air Reverse.

## CALL 800.331.6653
FOR A FREE PROJECT CONSULTATION TODAY.

PROUDLY MADE IN THE USA

HAMMERHEAD TRENCHLESS

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