



**Hole-Hog<sup>®</sup>**

Allied's underground piercing tools

## THE HOLE-HOG® BREAKTHROUGH

Allied's Hole-Hogs® - the underground piercing and pipe pushing/pulling tools - are the most efficient, least expensive method for underground pipe or service placement in construction and installation work. Pneumatic Hole-Hogs open clean, compacted, self-contained tunnels for pipe, cable, conduit or wiring at the lowest cost per foot.

Hole-Hogs eliminate the need to break pavement or disturb landscaping from trenching or open cuts. There's no reason to disrupt traffic by tearing up and restoring asphalt or concrete. And forget about call backs for settling backfilled trenches. That's because Hole-Hogs breakthrough the ground while going UNDER roads, driveways, sidewalks, parking lots, runways, foundations or virtually any obstacle.

Hole-Hogs have quickly become essential tools of the trade for an ever-growing segment of the construction industry. Hole-Hogs are used by gas, electric and telephone companies and contractors. Cable TV companies find Hole-Hogs very effective for running their smaller diameter services. Water and sewer contractors like Hole-Hogs for their ease and accuracy when placing pipe.

Hole-Hogs also simplify life for trenching, excavating, plumbing and heating workers, as well as pipeline, boring and landscape contractors. Water supply services, municipal and industrial plant maintenance departments regularly count on Hole-Hogs to provide swift, cost effective installation of service lines.

## EXPERIENCE, ENGINEERING, AND SIMPLICITY

Allied pioneered and developed the concept of pneumatic underground piercing tools over 30 years ago. Today, through our continuous process of engineering refinements, Allied provides the construction industry with American-made, premium quality tools that simply do the job better.

Hole-Hog's greatest design asset is simplicity. The rugged outer body is a one-piece unit machined from heat-treated, high-alloy steel. There are no welds or moveable nose pieces to wear, loosen or crack when overstressed. Hole-Hog's design permits more efficient air utilization inside the tool. That's why Hole-Hog offers faster, more accurate penetration and greater productivity and durability than other underground piercing tools.

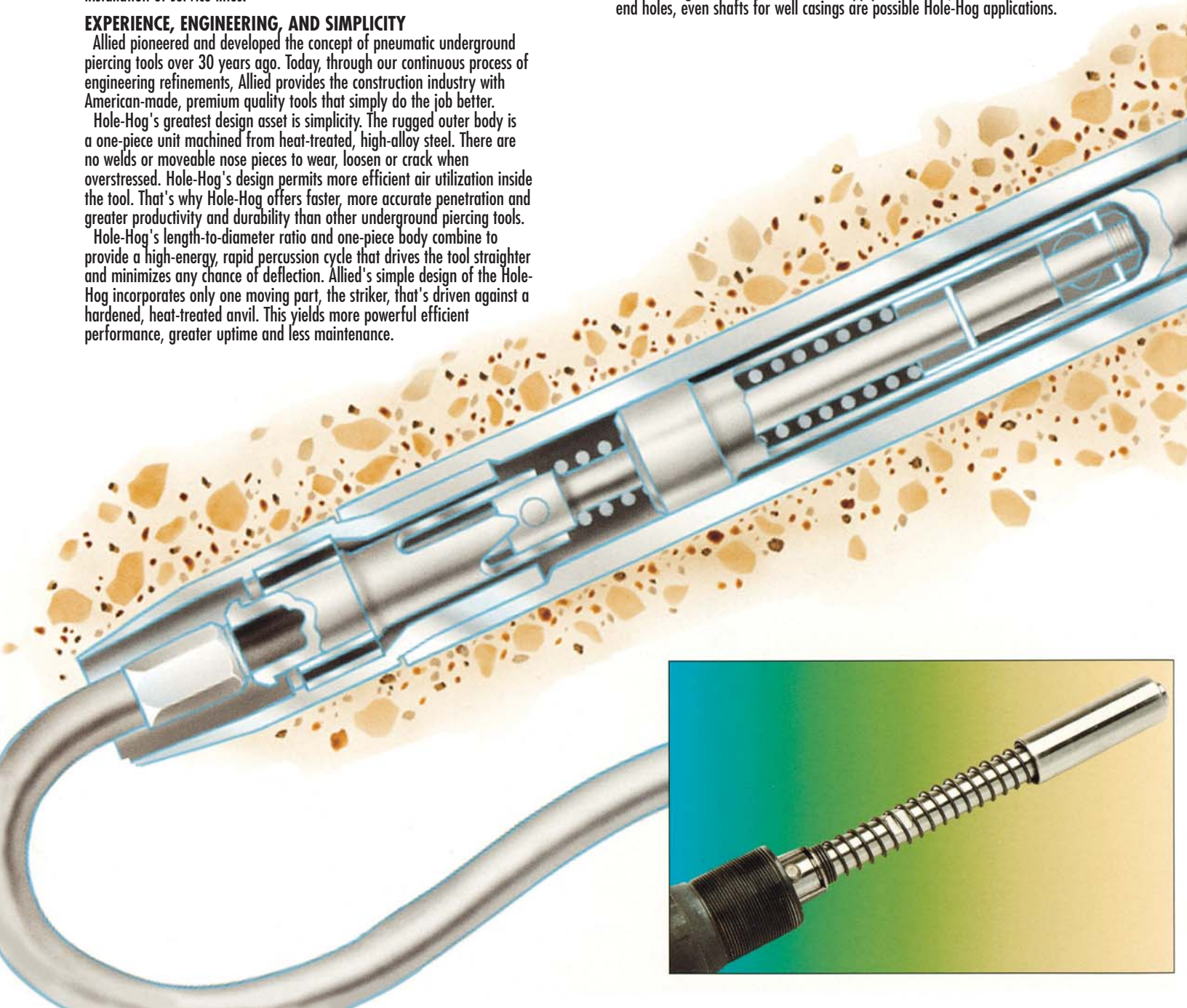
Hole-Hog's length-to-diameter ratio and one-piece body combine to provide a high-energy, rapid percussion cycle that drives the tool straighter and minimizes any chance of deflection. Allied's simple design of the Hole-Hog incorporates only one moving part, the striker, that's driven against a hardened, heat-treated anvil. This yields more powerful efficient performance, greater uptime and less maintenance.

## BETTER BY DESIGN, GREATER UPTIME

Design features incorporated into Allied Hole-Hogs translate into simplicity in operation and maximum uptime. And uptime equals profit for the user. The Hole-Hog's one-piece body, matched with a unique air valve, insures efficient utilization of air flow in the tool. This yields a more controllable starting frequency and faster ground penetration. The spring-back air valve insures the valve stem is not exposed when the tool is idle. This protects the valve stem from being bent, minimizing maintenance costs. A quick-change, whip hose is available for all Hole-Hogs. For routine service, end cap flats make Hole-Hogs easy to disassemble. Threaded anvils are available on the "TH" series of Hole-Hogs for adapting nose accessories. Hole-Hogs also feature a critically machined and hardened, one-piece striker design to maximize air utilization without the need and maintenance expense of replaceable wear rings.

## ALLIED'S PATENTED REVERSE MECHANISM

Hole-Hogs are easily reversed with their patented, quarter-turn reverse mechanism feature. Many other underground piercing tools are difficult or impossible to reverse. Allied's positive-locking quarter-turn reverse not only permits easy change of direction, but will not "slip" unexpectedly into reverse. This patented reverse mechanism makes Hole-Hogs even more versatile. Simply shut off the air, twist the unit's whip hose one-quarter turn (90 degrees) and restart the air supply. Blind shots, tie-backs, dead-end holes, even shafts for well casings are possible Hole-Hog applications.



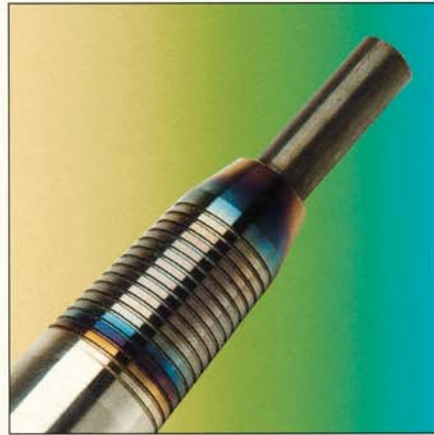
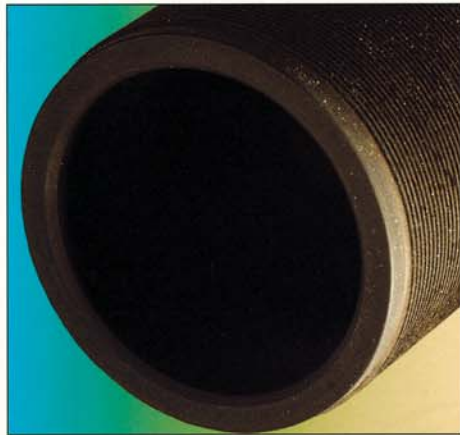
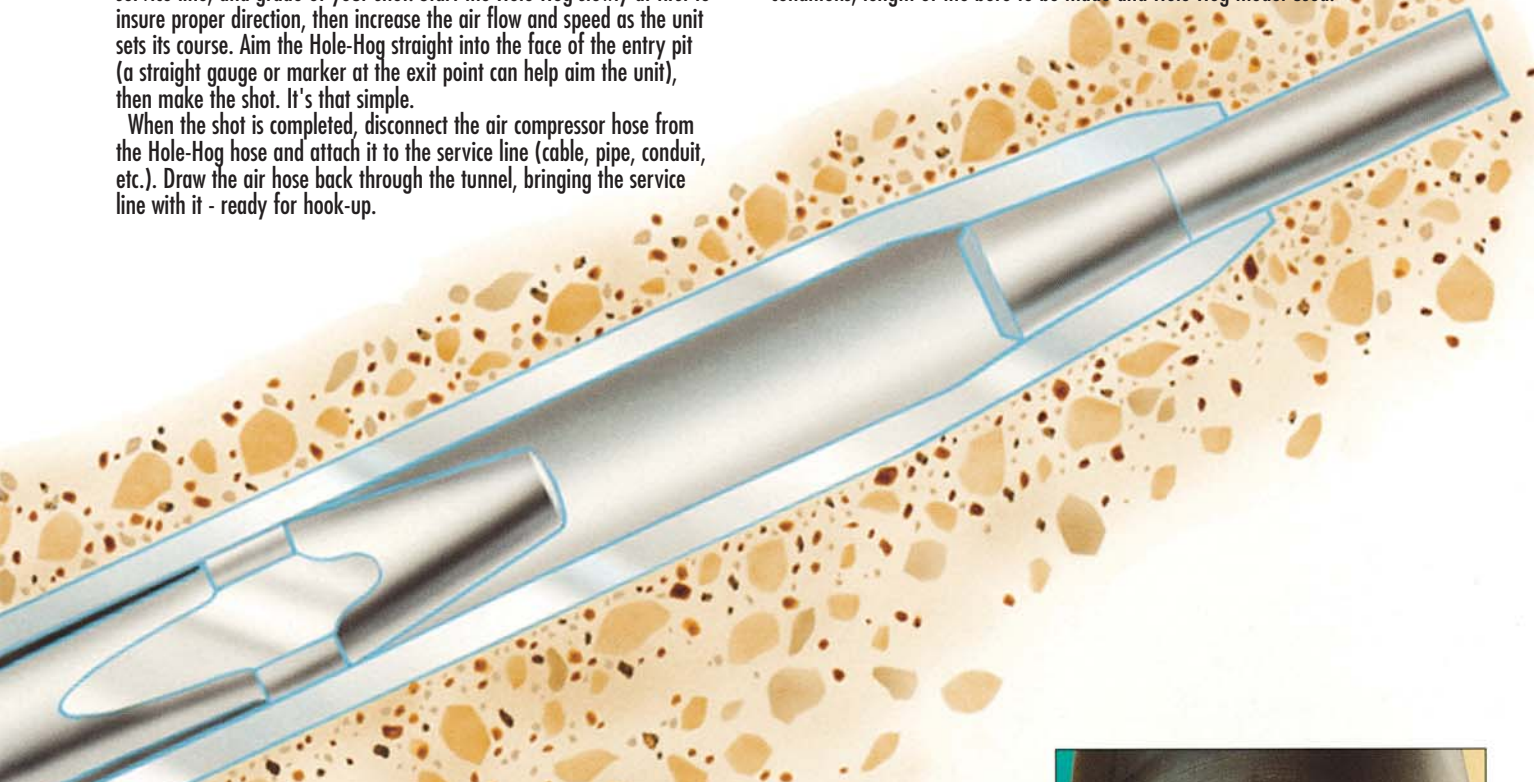


## OPERATION AND PERFORMANCE ABC'S

Allied's Hole-Hogs require minimal labor and equipment - one to two men and an air compressor. After locating existing underground service lines and obstacles, dig a small entry pit on one side of the run. Next, determine the depth of entry, line direction, location, route for your service line, and grade of your shot. Start the Hole-Hog slowly at first to insure proper direction, then increase the air flow and speed as the unit sets its course. Aim the Hole-Hog straight into the face of the entry pit (a straight gauge or marker at the exit point can help aim the unit), then make the shot.

When the shot is completed, disconnect the air compressor hose from the Hole-Hog hose and attach it to the service line (cable, pipe, conduit, etc.). Draw the air hose back through the tunnel, bringing the service line with it - ready for hook-up.

Hole-Hog's tremendous punching power will move through compressible soil at up to four feet per minute and will easily breakthrough such obstacles as small rocks and tree roots. Hole-Hogs work best in compressible soil. Minimum depth of operation varies according to soil conditions, length of the bore to be made and Hole-Hog model used.



# ALLIED HOLE-HOG®



218C

1000C

2100C

3000C

4000

5500  
*(discontinued)*



# BETTER BY DESIGN™

## HOLE-HOGS FOR EVERY APPLICATION

Standard sizes include the easily portable 2 1/8" diameter Model 218C, the versatile 3" diameter Model 1000C, the companion 3 7/8", 2100C and 4 1/16", 2501C and the larger 5 1/8" size and greater hitting power of the Model 3000C Hole-Hog. Other models are available with up to 8" diameter for pipe pushing, pipe pulling and other applications.

## BETTER BY DESIGN ALSO MEANS BETTER BACKED

The quality of Allied's Hole-Hogs is backed by over 150 trained distributors throughout North America. Allied Hole-Hog Distributors stand ready to assist you with technical support, parts availability and application expertise whenever needed. Allied's 60 plus years of product support, together with the industry's most comprehensive product warranty, protects your investment in Hole-Hog, no matter how hard you work it.

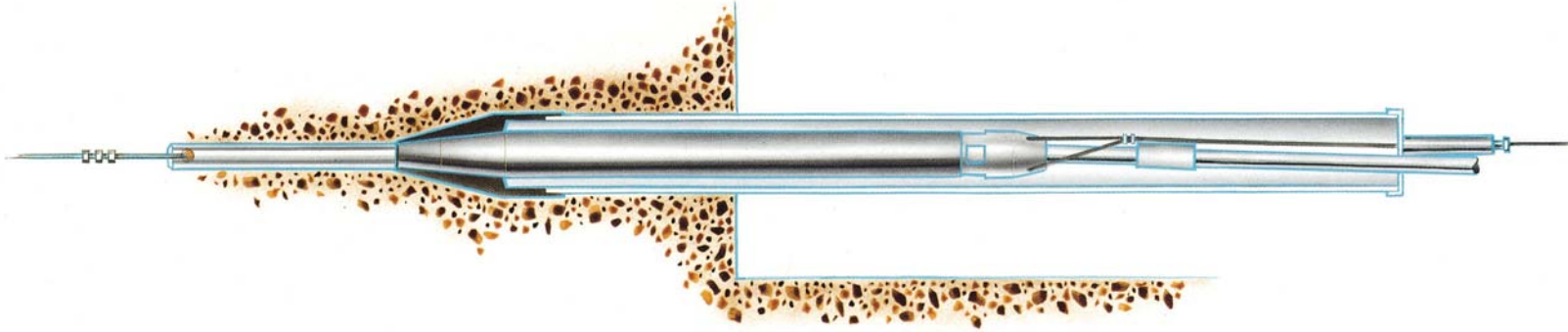
## HOLE-HOG MODELS 4000 AND 4001: DESIGNED SMART, DESIGNED TOUGH

The bigger Hole-Hogs include the Model 4000 and Model 4001, for pipe pushing and pulling applications. These models, ranging from 6" to 8" in diameter, have a pipe pushing capability of over 200 ft. lengths, depending on soil conditions. Durability, speed and accuracy are among the most important assets an underground tool can provide and these features are designed and built into the 4000 and 4001 Allied Hole-Hogs.

Expanded Body Hole-Hogs allow for larger diameter holes with smaller and lighter equipment without the use of expanders. The expanded body's overall O.D. is increased only near the rear of the unit making a bigger hole with a smaller-massed unit.

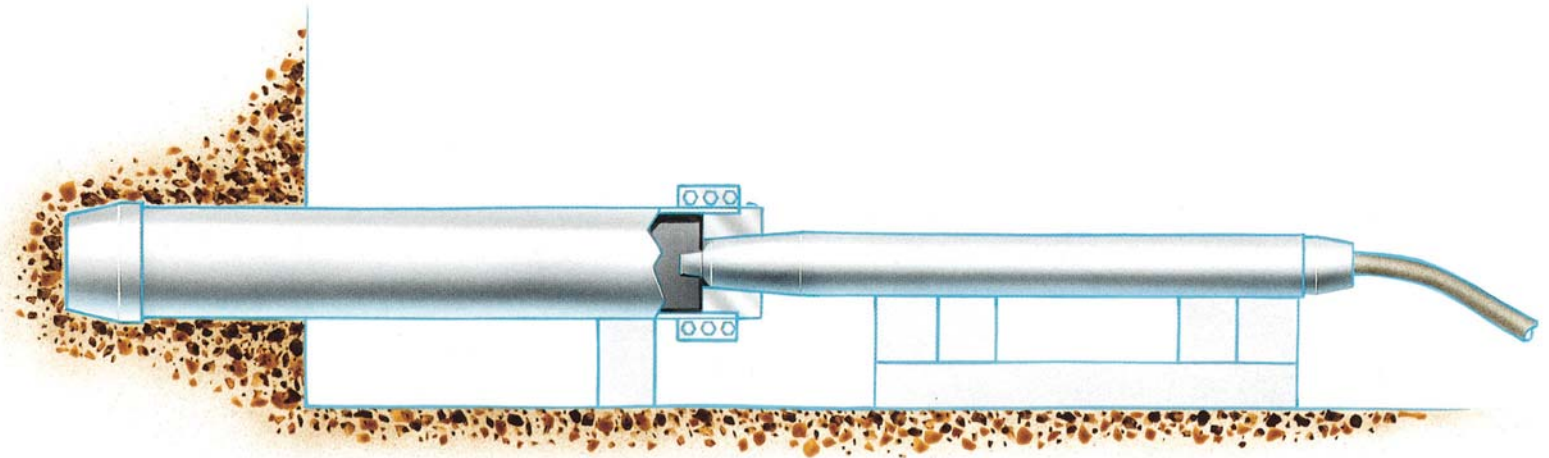


# PIPE PULLING

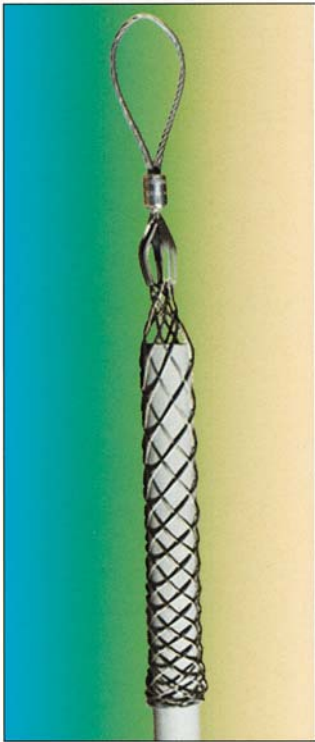


Special pipe pulling accessories are available for most Hole-Hogs when pulling is required. Pulling pipe, such as PVC, PE and others, has been easily and efficiently accomplished when conditions dictate a single operation. Pipe sizes of 3", 4", and 6" are commonly pulled with Allied Hole-Hogs.

# PIPE PUSHING



Hole-Hogs make pipe pushing easy with models available up to 8" diameter for pushing pipe up to 16" in diameter. Pushing open or closed ended casings over 200 ft. in length, depending on soil conditions, can be expected. Use the appropriate pipe hog and pipe bung to clean out any material within the casing.

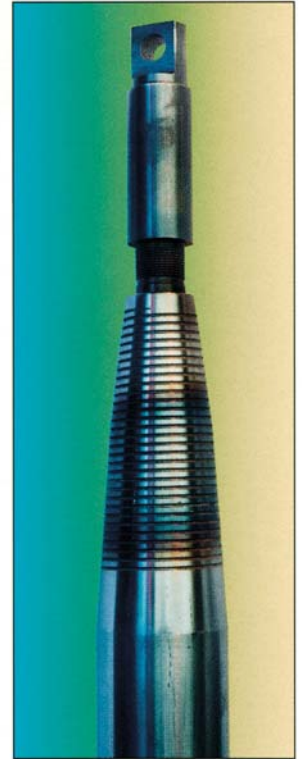


Pipe Grips are simple attachments that work on a leverage principle and offer an easy way to pull small I.D. pipe and cable with Hole-Hogs. They reduce jobs to a one-step operation with greater bottom line results.



Stepped Nose Covers allow for fine tuning of Hole-Hogs to meet different working conditions with various performance levels. It also doubles as a nose wear cover and is easily removed when worn.

Threaded anvils, available on most Hole-Hogs, allow attachments to be mounted on the front of Hole-Hogs. Available attachments such as Smooth Nose Covers and Stepped Nose Covers increase your Hole-Hog's versatility.



## Hole-Hog® Application Accessories

Model	218C	1000C	2100C	2101C	2501C	2502C	3000C	3001C	4000	4001
Standard Expander	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	Yes	N/A
Reversible Expander	N/A	Yes	Yes	N/A	Yes	N/A	Yes	N/A	N/A	N/A
Pipe Puller Assembly	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
Pipe Pusher Assembly	N/A	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Stepped Nose Cover	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
Smooth Nose Cover	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A
Threaded Anvil	N/A	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A

Pipe Pushing Accessories Available: Pipe Clamp Assemblies, Pipe Bullets, Pipe Hogs, Pipe Bungs and Pipe Nose Adapters

Other Hole-Hog Application Accessories: Hog-Wash Lubricant, Lubricator Assemblies, Launchers, Hose Assemblies, Pipe Pulling Grips, Air Supply Hoses, Pulling Adapter Assemblies, and Service Tool Kits

## Hole-Hog® Specifications

Model		218C	1000C	2100C	2101C	2501C	2502C	3000C	3001C	4000	4001
Outer Diameter	in. (mm)	2 1/8 (54)	3 (76)	3 7/8 (98)	5 (127)	4 1/16 (103)	6 (152)	5 1/8 (130)	7 (178)	6 (152)	8 (203)
Overall Length	in. (cm)	40 (101)	54 (137)	62 (157)	62 (157)	62 (157)	62 (157)	63 (160)	63 (160)	68 (173)	68 (173)
Weight	lbs. (kg)	28 (12.7)	72 (33)	125 (57)	142 (65)	140 (63)	164 (75)	195 (88)	247 (112)	282 (128)	310 (141)
Working Air Pressure	psi (kg/cm <sup>2</sup> )	90 (6.3)	95 (6.7)	95 (6.7)	95 (6.7)	95 (6.7)	95 (6.7)	90 (6.3)	90 (6.3)	90 (6.3)	90 (6.3)
Air Consumption	cfm (cm)	20 (0.6)	40 (1.1)	60 (1.7)	60 (1.7)	60 (1.7)	60 (1.7)	140 (4.0)	140 (4.0)	240 (6.8)	240 (6.8)
Air Hose Inside Diameter	in. (cm)	1/2 (12.7)	3/4 (20)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 (25)	1 1/2 (38)	1 1/2 (38)
Percussion Rate Per Minute	bpm	535	400	400	400	400	400	400	400	400	400
Patented Quarter-Turn Reverse Feature		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A

For sales and service, contact your Allied Distributor:



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