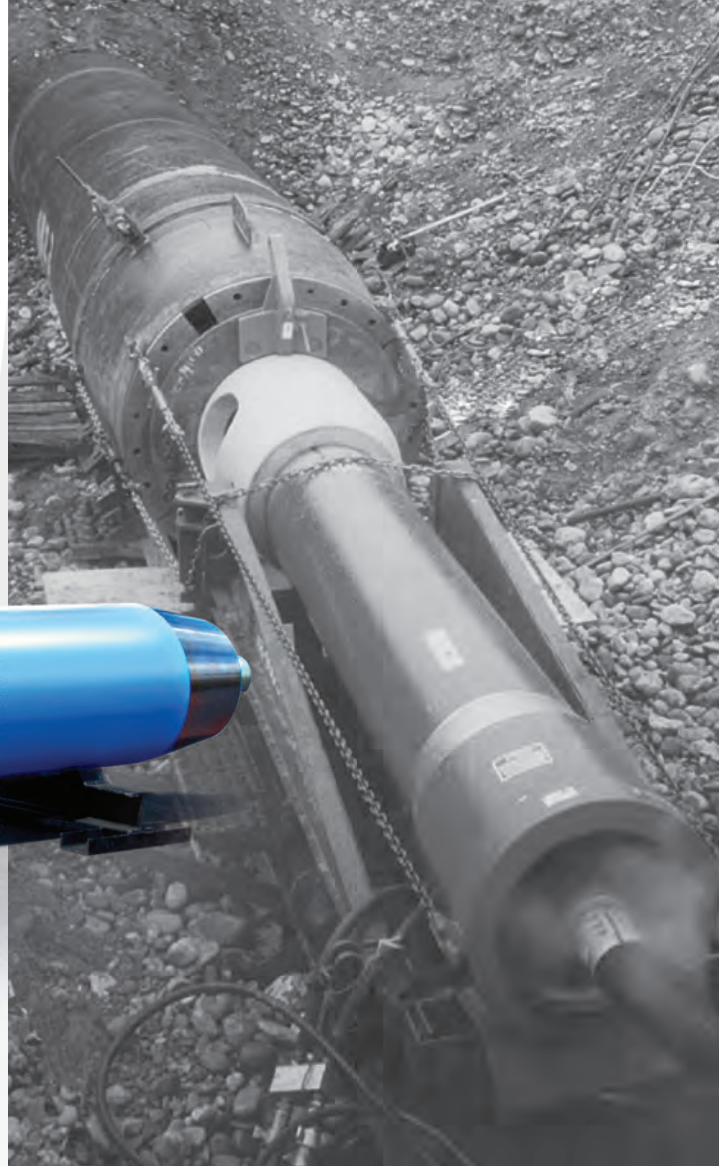
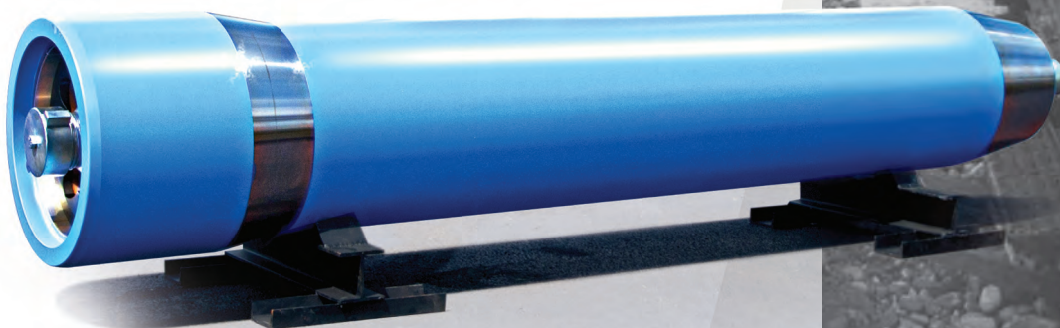


GRUNDORAM®

PNEUMATIC PIPE RAMMING SYSTEM



BUILT FOR POWER & PERFORMANCE

Pipe Ramming Strike Force!

For trenchless casing installations from 4 to 147 inches in diameter, choose the proven performance & power of GRUNDORAM. No open cutting or surface slump, just straight, accurate pipe rams. The GRUNDORAM is also ideal for assistance in directional drilling. Use it for conductor barrel installation, pipe pullback assist, pipe removal, & drill stem recovery.



Casings are installed without surface slump.



DISTRIBUTION / MAIN GRID

THE PROVEN RAMMING SYSTEM

MORE POWER. MORE POSSIBILITIES.

Grundoram® Advantages

Grundoram pipe ramming tools are ideal for the trenchless installation of steel pipe through a wide variety of soil types, without any rise or fall in the ground's surface.

While some casing installation methods are impaired or even rendered inoperable by rock- or boulder-filled soils, boulders and rocks as large as the casing itself are "swallowed up" during the pipe ramming process. Spoil is then removed after the installation is complete.

Built for Power & Performance

Grundoram pipe ramming tools are manufactured from the highest quality steel alloys. The one-piece Grundoram casing is made from a solid block of steel alloy giving it extremely high anti-corrosion properties and a long life expectancy. The inside of the casing is perfectly machined to prevent any metal-to-metal friction. During manufacturing,

the piston goes through a special heat treatment process that optimizes the strength and durability of the steel alloy and increases its resistance to corrosion.

Versatile Method & Powerful Tool

Sixteen Grundoram models are available for installing casings from 4 to 147 inches in diameter! Individual tools can be used to install a range of casing diameters. Powered by compressed air the ramming tool attaches to the rear of the casing or pipe, pushing the casing into the ground with repeated percussive blows. As the pipe rammer pushes the pipe through the soil, rocks, boulders and other obstacles are "swallowed" into it.

Fast, Effective Pipe Clean-out

Depending on soil conditions, vacuum excavation equipment can be used to remove spoil. And, depending on the casing size, mini-excavators and skid steers are ideal for large diameter rams. Augers work well too.



DRIVE IN ANY DIRECTION

In addition to horizontal pipe ramming beneath roads and railroad lines, Grundoram can also be used for angled ramming and vertical pile driving. Several Grundoram models are specifically designed for operation in confined areas.

VERTICAL RAMMING

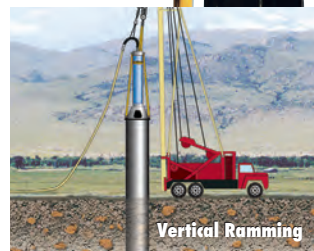
Use GRUNDORAM for vertical pipe and pile driving.

Mini-Grundoram

Powerful percussion to drive steel casings, even in confined spaces.

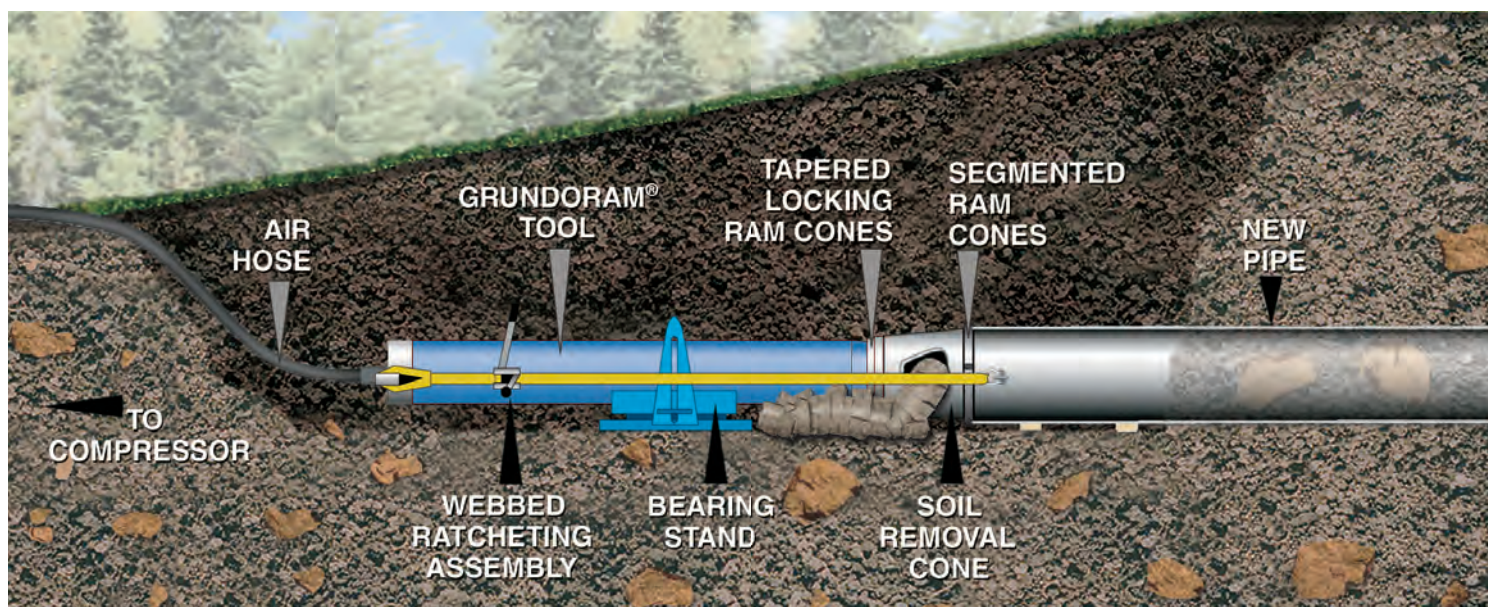


Mini-Grundoram



Vertical Ramming

THE GRUNDORAM® SYSTEM

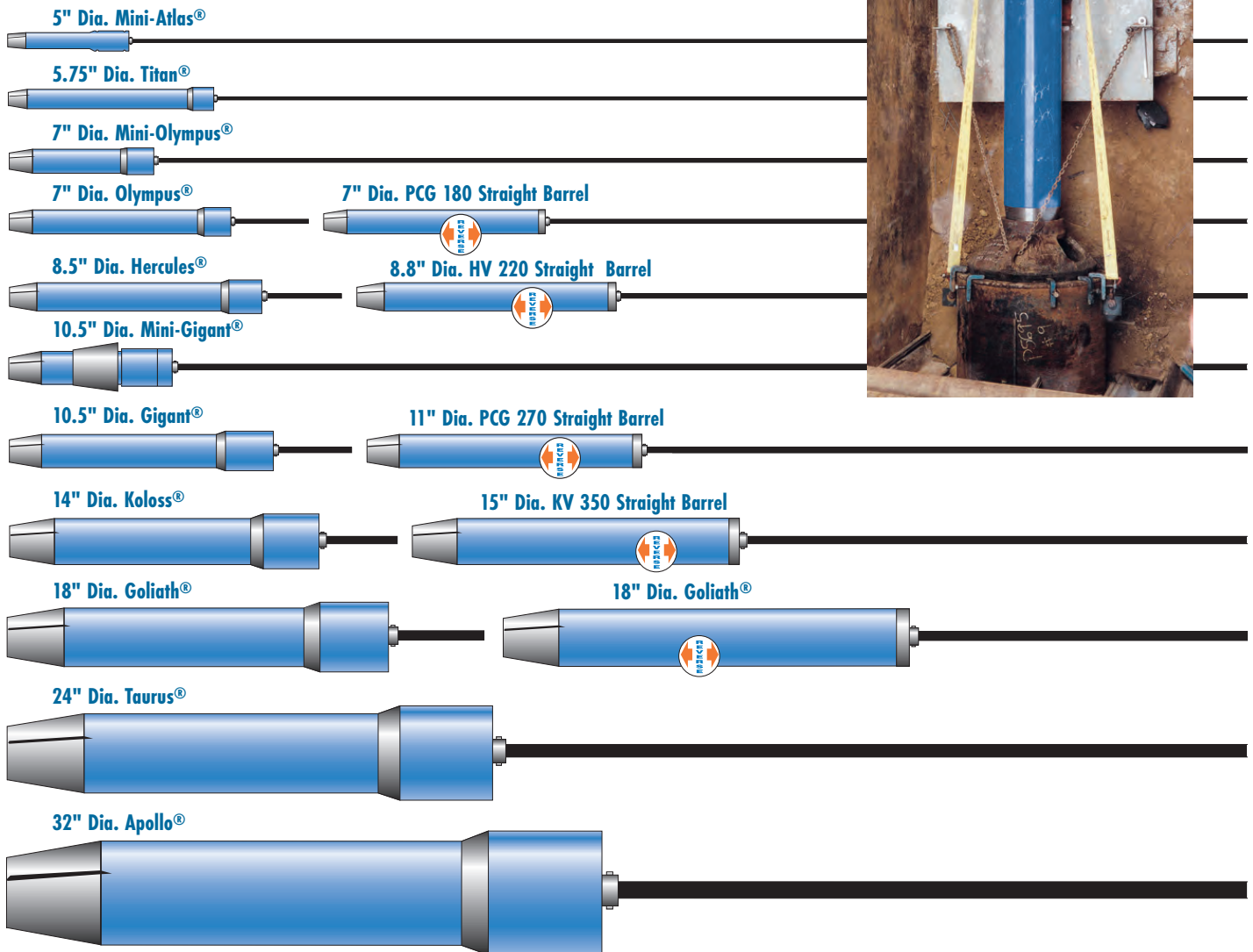


THE GRUNDORAM CAN BE USED FOR A WIDE RANGE OF APPLICATIONS INCLUDING:

- Gas & Oil Pipeline Installation
- Bike Paths
- Casings for Water, Gas, Electric Utilities
- Sheet pilings (vertical)
- Telecommunications
- Culverts, Drainage
- More!

SPECIFICATIONS

THE RIGHT TOOL FOR THE JOB



TECHNICAL DETAILS

	Tool Model	Tool Diameter in. (mm)	Length in. (mm)	Weight lbs. (kg)	Strokes/ Minute	Air Cons. cfm (m3/min)	Recomm. Pipe Dia. In. (mm)	Max. Bore Length ft. (m)
	Mini-Atlas	5 (125)	37 (946)	132 (60)	580	60 (1.7)	2-8 (50-200)	50 (15)
	Titan	5.75 (146)	61 (1545)	302 (137)	310	141 (4.0)	8-15 (200-400)	80 (25)
	Mini-Olympus	7 (180)	43 (1080)	385 (175)	500	124 (3.5)	4-16 (100-400)	80 (25)
	Olympus	7 (180)	66 (1690)	507 (230)	280	177 (5.0)	8-20 (200-500)	115 (35)
REVERSIBLE	PCG 180	7 (180)	66 (1690)	490 (222)	280	159 (4.5)	8-20 (200-500)	115 (35)
	Hercules	8.5 (216)	75 (1913)	811 (368)	340	282 (6.5)	12-20 (300-500)	130 (40)
REVERSIBLE	HV 220	8.8 (224)	79 (2010)	945 (429)	300	282 (6.5)	12-20 (300-500)	130 (40)
	Mini-Gigant	10.5 (270)	48 (1230)	1014 (460)	430	353 (10.0)	8-24 (200-600)	115 (35)
	Gigant	10.5 (270)	79 (2010)	1356 (615)	310	424 (12.0)	15-32 (400-800)	165 (50)
REVERSIBLE	PCG 270	11 (280)	84 (2134)	1540 (699)	310	424 (12.0)	15-32 (400-800)	165 (50)
	Koloss	14 (350)	92 (2341)	2601 (1180)	220	706 (20.0)	20-48 (500-1200)	230 (70)
REVERSIBLE	KV 350	15 (381)	102 (2591)	3375 (1531)	220	706 (20.0)	20-48 (500-1200)	230 (70)
	Goliath	18 (460)	112 (2852)	5434 (2465)	180	1236 (35.0)	24-56 (600-1400)	265 (80)
REVERSIBLE	Goliath	18 (460)	112 (2852)	5434 (2465)	180	1236 (35.0)	24-56 (600-1400)	265 (80)
	Taurus	24 (600)	144 (3645)	10,580 (4800)	180	1766 (50.0)	56-78 (1400-2000)	265 (80)
	Apollo	32 (813)	174 (4420)	25,000 (11500)	180	3500 (99.1)	56-122 (1400-3050)	300 (90)

Maximum bore lengths will vary depending on actual pipe diameter installed and GRUNDORAM tool used to install it. Contact TT Technologies for more detailed tool vs. bore length information.

Specifications subject to change at any time.

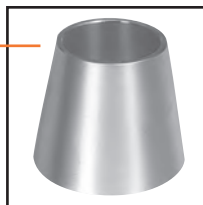
ACCESSORIES

FOR A COMPLETE RAMMING SYSTEM



Soil Removal Cone

Adapts the GRUNDORAM to the pipe and provides an escape route for spoils.



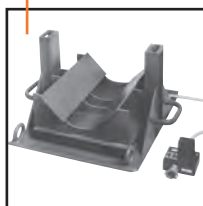
Tapered Locking Ram Cones

They allow one size GRUNDORAM tool to be adapted to fit many size casings. Used singularly, or in multiples, these cones provide a tight fit which helps deliver all of the GRUNDORAM's power to the casing.



Segmented Ram Cones

These cones ensure a tight fit between the GRUNDORAM and the pipe as well as help minimize pipe flaring. They are especially useful for thin wall pipe in drives of less than 50 feet or when used in combination with soil removal cones.



Adjustable Bearing Stand

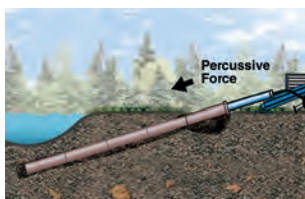
Heavy-duty stand provides support and alignment for the Grundoram and casing in the start pit. Features an air bladder to easily raise assembly to correct grade.

PERCUSSIVE POWER

FOR DIRECTIONAL DRILLING ASSIST

Conductor Barrel™

A sure start for your bore even in the worst soil.



Pullback Assist

Overcome hydrolock with a pipe rammer.



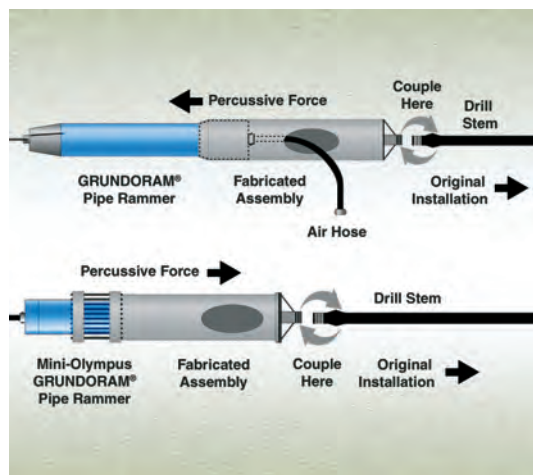
Pipe Removal

Remove stuck product pipe and bore again.



Drill Stem Recovery

Retrieve stuck drill stems.



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