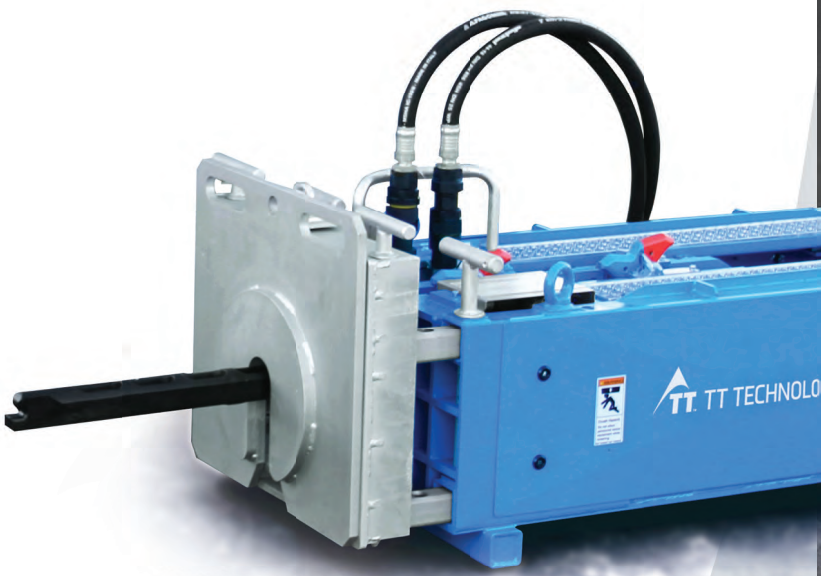
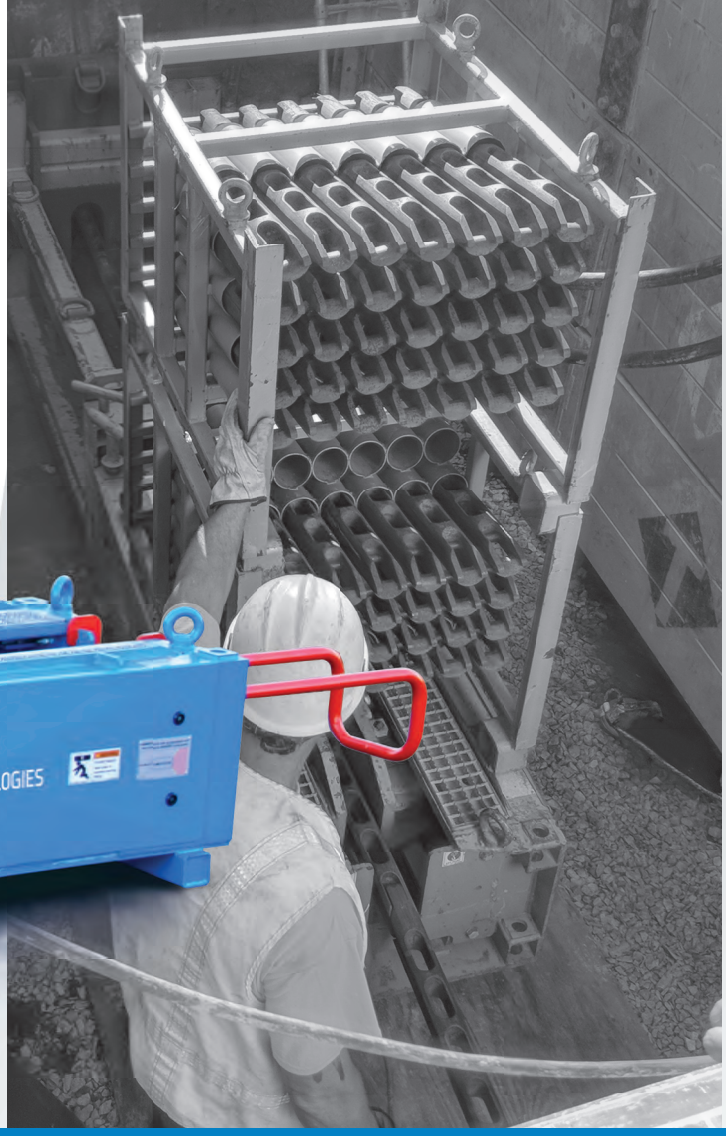
GRUNDOBURST®

STATIC PIPE BURSTING SYSTEM





GRUNDOBURST
THE MOST EFFECTIVE PIPE BURSTING SYSTEM

The GRUNDOBURST: Innovation & Power

With decades of pipe bursting experience, TT Technologies has produced the most advanced and capable line of static bursting equipment available today, the Grundoburst. The self-contained, hydraulically operated Grundoburst is extremely versatile with the capability to burst a wide range of host pipes, including ductile iron and steel. In addition, the Grundoburst can install various product pipe materials such as ductile iron, fusible PVC, HDPE and clay.

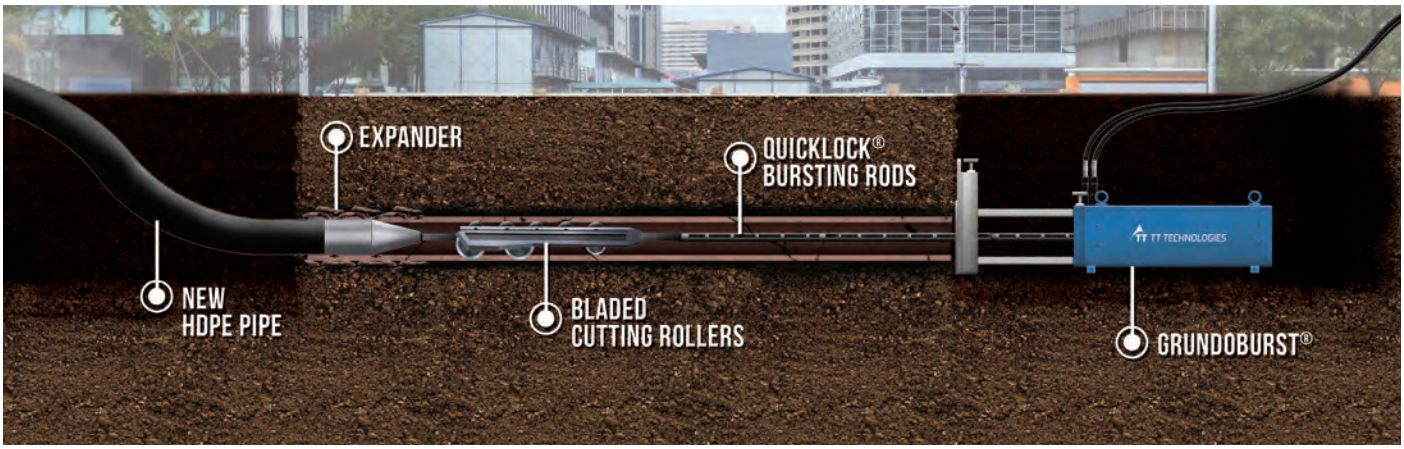
The system's innovative design features save time and money. The Grundoburst is easy to set up and operate. Minimal crews can burst and replace substantial lengths of pipe in a short amount of time. And because the system is trenchless, considerable trench work and costly restoration can be avoided.

TT TT TECHNOLOGIES

PIPE RENEWAL

SUPERIOR STATIC PROCESS

INNOVATION & POWER



THE STATIC METHOD

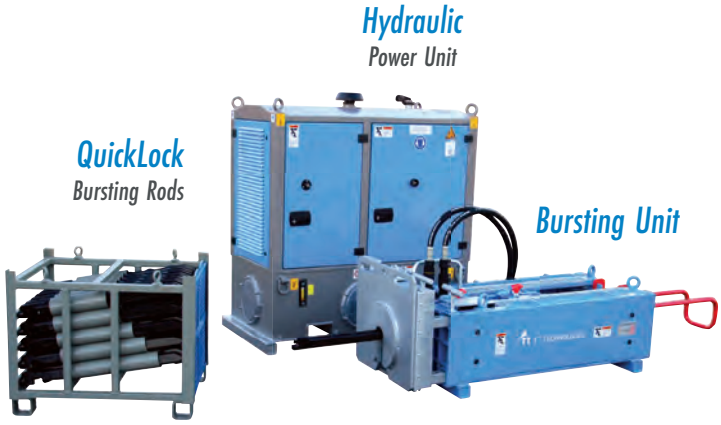
During the static bursting process, QuickLock® bursting rods are pushed through the host pipe with the GRUNDOBURST, until they reach the launch pit. Once at the launch pit, the bladed cutting rollers, bursting head, expander and new pipe are attached. The entire configuration is pulled back through the host pipe. The bladed cutting rollers split the existing line. The bursting head and expander displace the fragmented host pipe in to the surrounding soil while the new pipe is pulled in simultaneously.

The QuickLock bursting rods can be quickly removed one at a time at the exit as bursting is in operation, or, if the run is divided, the QuickLock rods can be installed into the next run as the first run is being completed.

MULTIPLE PIPE OPTIONS, *MULTIPLE APPLICATIONS*

The GRUNDOBURST static pipe bursting system is having a tremendous impact on the water, sewer and gas industries. Its innovative design features help contractors save time and money. There are six models available ranging in pullback force from 100,000 lbs. to 600,000 lbs. GRUNDOBURST models are designed for bursting 4-inch through 48-inch diameter pipe and larger.

The Grundoburst has the ability to burst a wide range host pipe materials. In addition it can install various product pipe materials such as ductile iron, fusible PVC, HDPE and clay. That versatility makes the Grundoburst ideal for multiple pipe replacement applications, as well as jobsite situations and specific requirements.



THE GRUNDOBURST SYSTEM

- SEWER
- WATER
- GAS
- ELECTRIC
- MORE!

GRUNDOBURST Advantages:

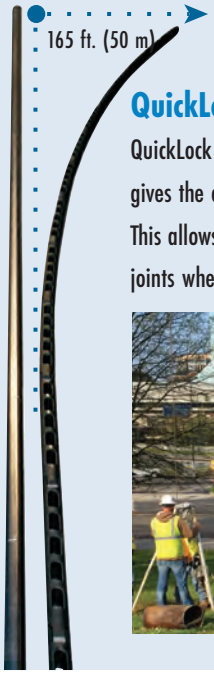
- Install a wide range of product pipes
- Burst ductile iron & steel pipes and more
- QuickLock bursting rods
- Shallow bursting possible
- Burst in both directions
- No winch required
- Automatic thrust and pullback
- Fast set up
- Easily transported

PATENTED QUICKLOCK® BURSTING RODS:
A BETTER CONNECTION

Patented QuickLock bursting rods offer distinct advantages over standard screw-together stem systems:

- Easy and secure connection
- Self-aligning rods
- Virtually no cleaning, lubricating or maintenance
- Faster connection than screw-type rods
- Less wear than screw-type rods

Loading of the bursting rods is significantly easier and safer than thread screw-together stems as well. The GRUNDOBURST system employs a non-slip braking system to keep the QuickLock rods stable and properly positioned at all times. Threaded systems utilize a jaw assembly that allows stems to slip and move without warning. Plus with a stem system there is always the danger of thread joint overload and excessive wear on the jaw assembly increases the chances for breakdown and maintenance.



QuickLock Flexibility: An Added Capability

QuickLock Bursting Rods link together to form a flexible chain. This gives the configuration a maximum bend radius of almost 165 feet. This allows the GRUNDOBURST to work around offset pipe bends and joints where standard screw-together stem systems can't.

Flexible Guide Rod and Push Blade

The flexible guide rod helps ensure smooth installation of the QuickLock rods through the host pipe. For smaller diameter pipe, a pushing blade is used to split the host pipe first allowing the QuickLock bursting rods to be installed without resistance.

Bladed Cutting Rollers

The unique bladed cutting wheel/roller configuration is an essential part of the GRUNDOBURST's success. The bladed wheels actually split the host pipe instead of ripping or tearing it like single fin-type static systems. The bladed wheel system is a very "clean" process that requires less power than other static systems and helps prevent potential damage to the product pipe. Various bladed rollers are available to split a wide range of pipe types and diameters.

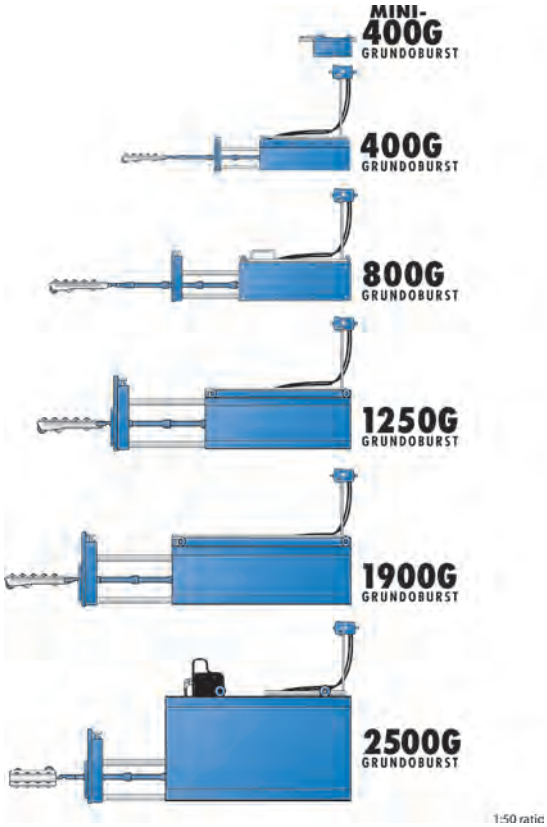
VERSATILITY

FOR ANY APPLICATION

Six models are available:

Mini-400G	4-inch & 6-inch bursting	400G	4-inch & 6-inch bursting
800G	6-inch & 8-inch bursting	1250G	6-inch through 20-inch
1900G	10-inch through 32-inch	2500G	20-inch through 48-inch

Pipe Size Ranges 4"—48"



1:50 ratio

Specifications: *the right tool for the job*

Data/Description	Grundoburst 400G	Grundoburst Mini-400G	Grundoburst 800G	Grundoburst 1250G	Grundoburst 1900G	Grundoburst 2500G
Rig size L x W x H (in)	56 x 22 x 20	24 x 20 x 14	67 x 28 x 26	91 x 43 x 34	112 x 45 x 39	116 x 63 x 59
Pit size L x W x H (in)	120 x 48 x 9 below pipe line	40" Dia.	192 x 72 x 10 below pipe line	288 x 96 x 14 below pipe line	420 x 120 x 16 below pipe line	420 x 120 x 20 below pipe line
Weight (lbs)	1,235	441	3,197	6,883	7,319	9,039
Thrust at 250 bar (lbs)	61,822	61,822	57,551	88,800	160,963	237,173
Pull back at 250 bar (lbs)	89,924	89,924	172,878	285,957	427,137	573,263
Effective rod length (in)	28	18.5	29.5	66.9	88.6	86.6
Rod diameter (in)	2.13	2.13	2.95	3.94	4.72	5.51
Rod weight (lbs)	16.5	11	28.7	187.4	363.8	463
Hydraulic Power Unit For	**Grundoburst 400G**	**Grundoburst Mini-400G**	**Grundoburst 800G**	**Grundoburst 1250G**	**Grundoburst 1900G**	**Grundoburst 2500G**
Motor	Diesel	Diesel	Diesel	Diesel	Diesel	Diesel
Output	74 hp at 2300 rpm	74 hp at 2300 rpm	74 hp at 2300 rpm	74 hp at 2300 rpm	74 hp at 2300 rpm or 170 hp at 2000 rpm	170 hp at 2000 rpm
Hydraulic pressure max. (psi)	3,626	3,626	3,626	3,626	3,626	3,626
Oil flow (gal/min)	0 - 26	0 - 26	0 - 32	0 - 40	0 - 55	0 - 105
Oil tank capacity (gal)	24	24	53	53	61	250
Diesel tank capacity (gal)	12	12	15	15	29	44

This product is covered by US Patent No. 7,434,315; 7,698,974; 7,448,829; 8,109,694, and Canadian Patent No. 2539515 and 2911994.

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