TRENCHLESS TECHOLOGY TO INSTALL PE PIPE SYSTEMS

FROM SOIL DISPLACEMENT TO STEERABLE HDD

STEFAN SCHMITZ





MEMBER OF





ABOUT US

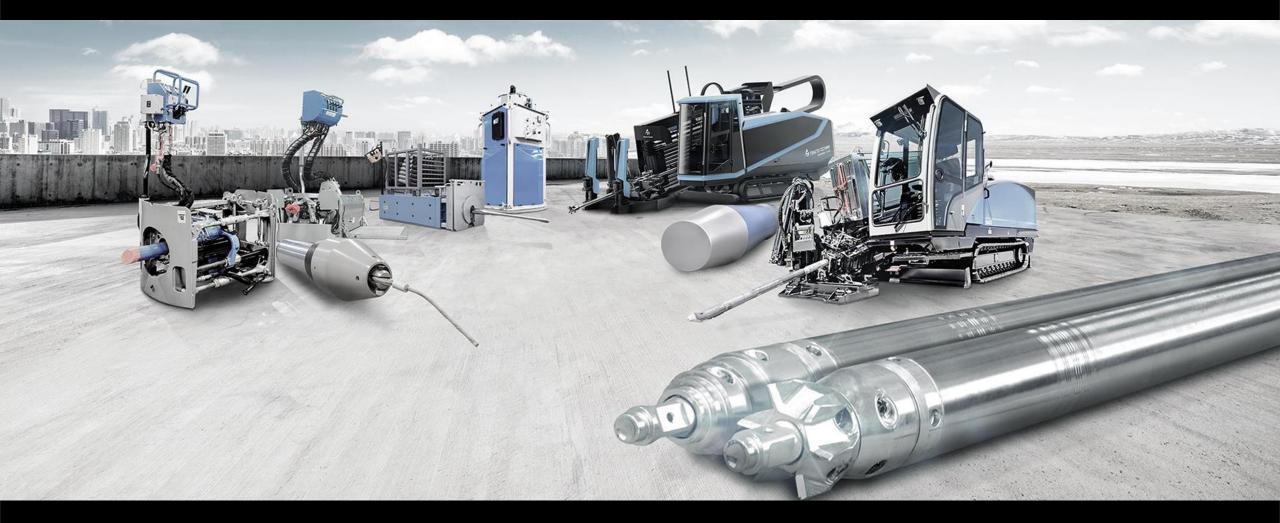
- MEDIUM SIZED COMPANY WITH HQ IN GERMANY (SINCE 1962)
- SISTER COMPANIES IN USA, UK, AUS, FR, CH, MAR
- SALES ACTIVITIES IN MORE THAN 70 COUNTRYS

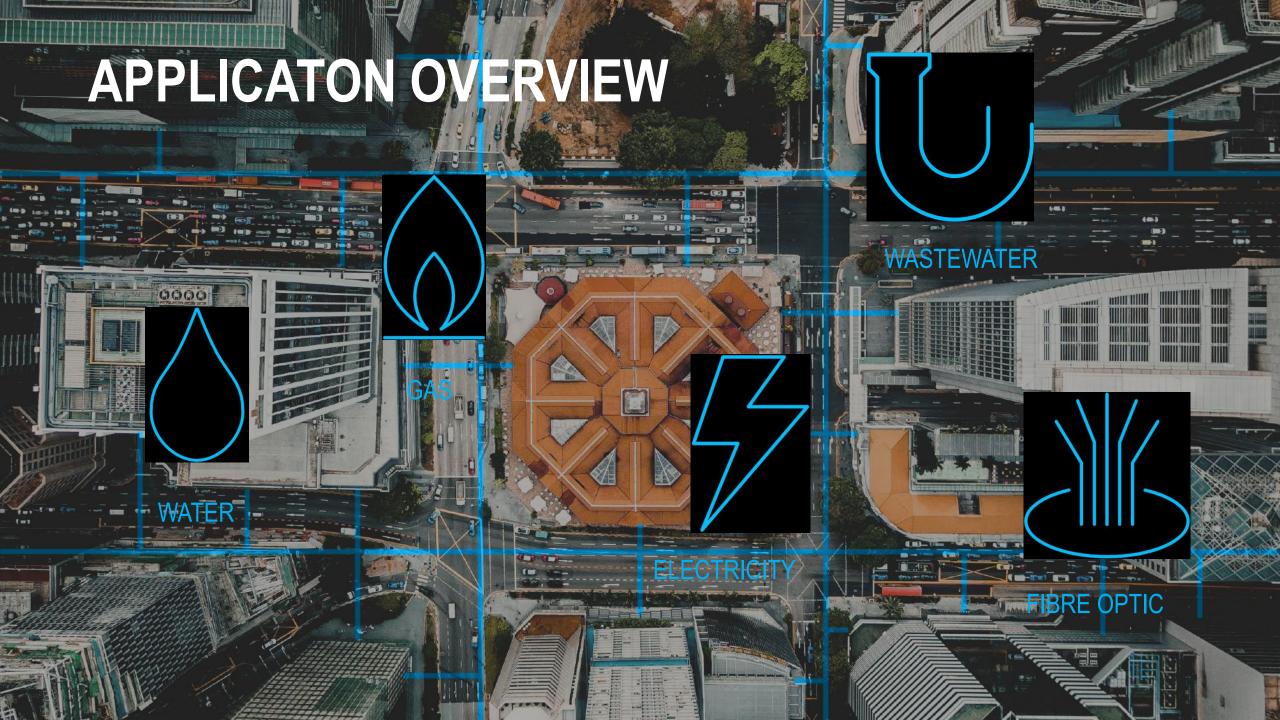


WHAT IS OUR MISSION?

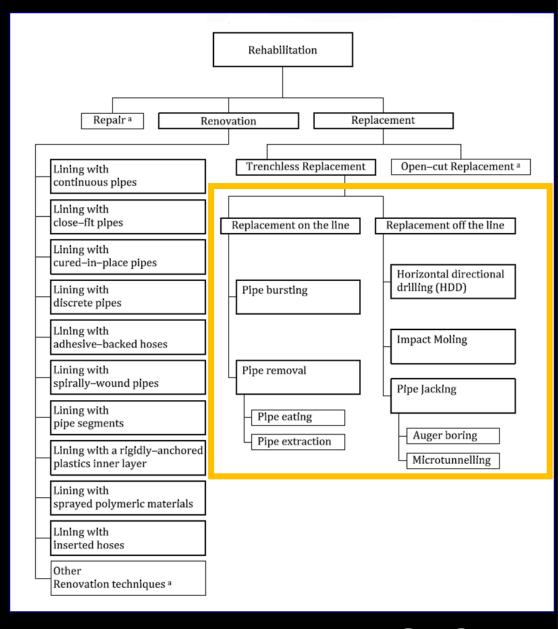
DEVELOPING AND PRODUCING MACHINES/SYSTEMS FOR UNDERGROUND PIPE & CABLE INSTALLATION

PRODUCT OVERVIEW





THE TECHNIQUE FAMILIES
COVERED BY EN ISO 11295 AND
RELATED TRENCHLESS
RENOVATION AND REPLACEMENT
STANDARDS



EN ISO 21225 PARTS 1 AND 2 COVERS PIPE BURSTING, HORIZONTAL DIRECTIONAL DRILLING AND IMPACT MOLING

BS EN ISO 21225-1:2018

BS EN ISO 21225-2:2018



BSI Standards Publication

Plastics piping systems for the trenchless replacement of underground pipeline networks

Part 1: Replacement on the line by pipe bursting and pipe extraction (ISO 21225-1:2018)



BSI Standards Publication

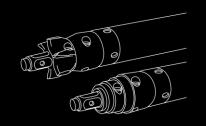
Plastics piping systems for the trenchless replacement of underground pipeline networks

Part 2: Replacement off the line by horizontal directional drilling and impact moling



TRENCHLESS TECHNOLOGIES FOR SHORT DISTANCES

FOCUS ON HOUSE CONNECTION AND SHORT CROSSINGS

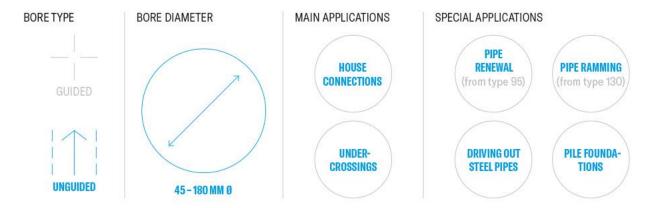


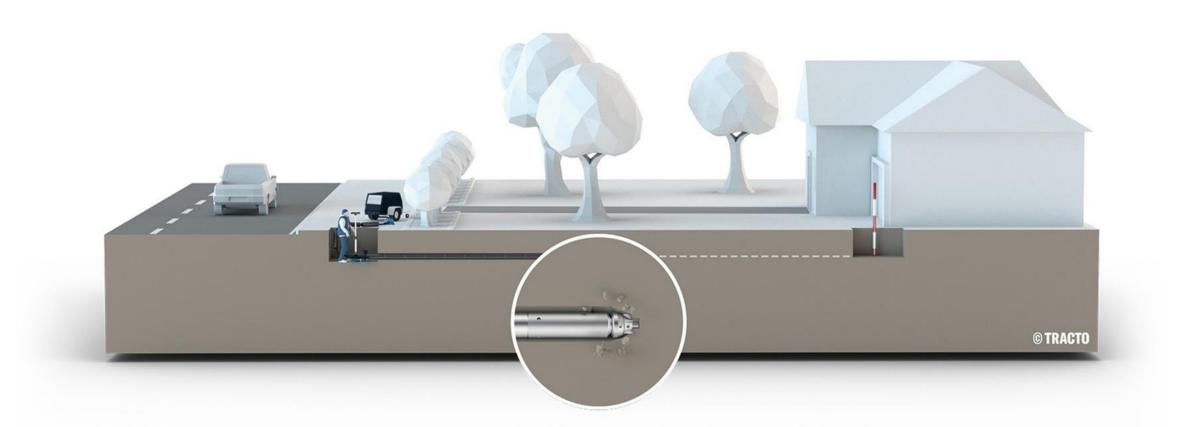
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GRUNDOMAT SOIL DISPLACEMENT HAMMERS



FACTS





GRUNDOMAT SOIL DISPLACEMENT HAMMERS



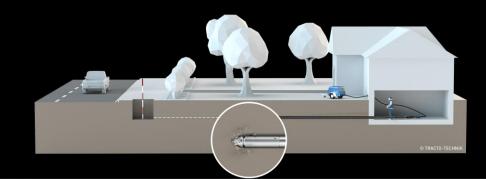


GRUNDOMAT SOIL DISPLACEMENT HAMMERS

Directly through the wall - without a pit in front of the house





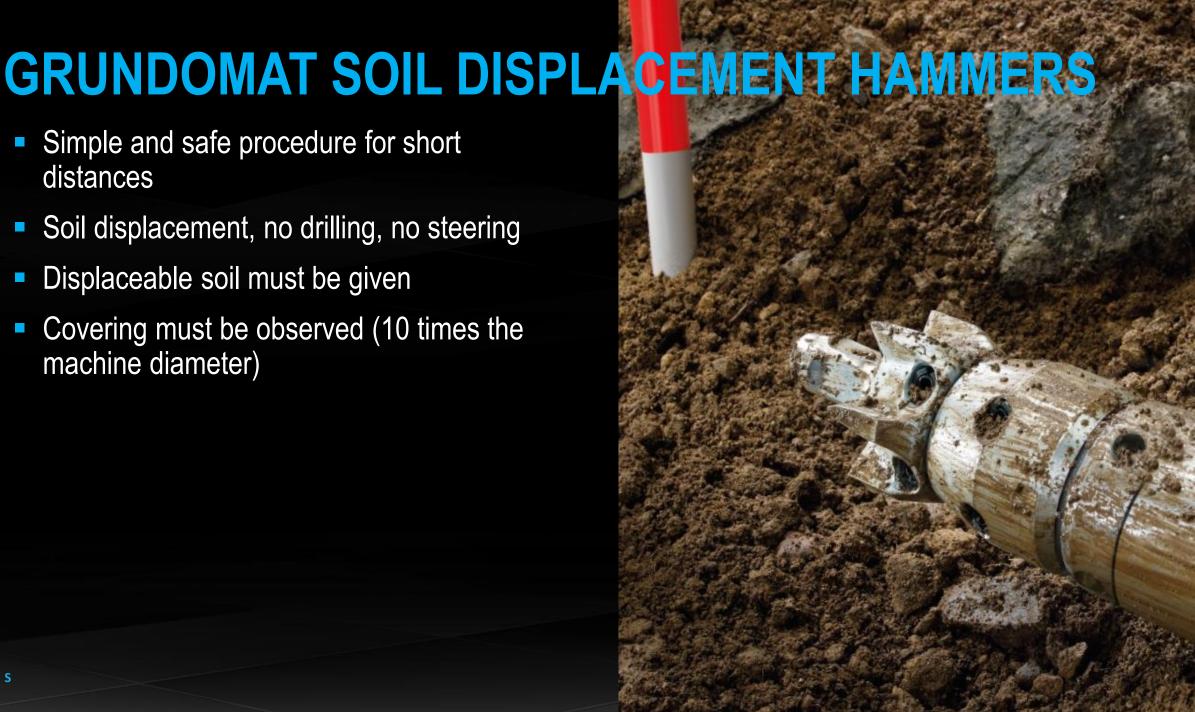


MASONRY SEALING





- Simple and safe procedure for short distances
- Soil displacement, no drilling, no steering
- Displaceable soil must be given
- Covering must be observed (10 times the machine diameter)



HORIZONTAL DIRECTIONAL DRILLING

HDD





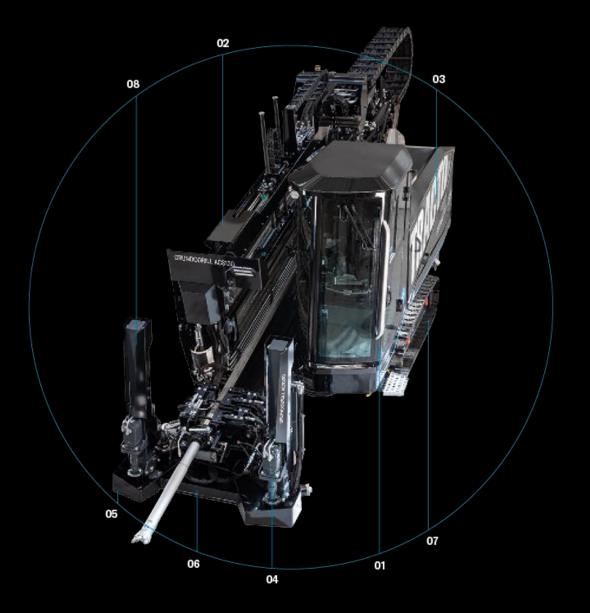
GRUNDODRILL FLUID-ASSISTED HDD-RIGS & HDDROCK DRILLING RIGS ALWAYS ONE TURN AHEAD

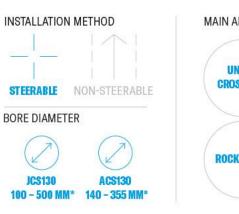
Innovative technology and premium quality guarantee the best possible productivity for the steerable pipe installation with GRUNDODRILL.

The various models in the power classes from 50 to 300 kN provide the highest performances even in complex conditions.

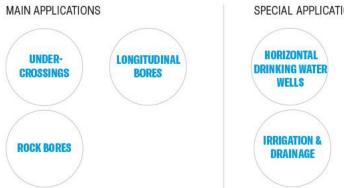
The latest generation allows even remote-controlled drilling thanks to a high degree of automation.

- **01** Comfort cabin with various equipment options
- 02 Optimum drill rod handling with fully automatic loading system
- 03 High rotation and rinsing capacities, powerful drive
- **04** Optional anchor drilling system for high stability
- 05 Anchor plate as a catch basin for the drilling fluid
- **06** Support plates for alignment and positioning
- **07** Undercarriage with rubberised steel tracks, with various chain versions
- 08 Hydraulic loading crane for self-sufficient drill rod handling

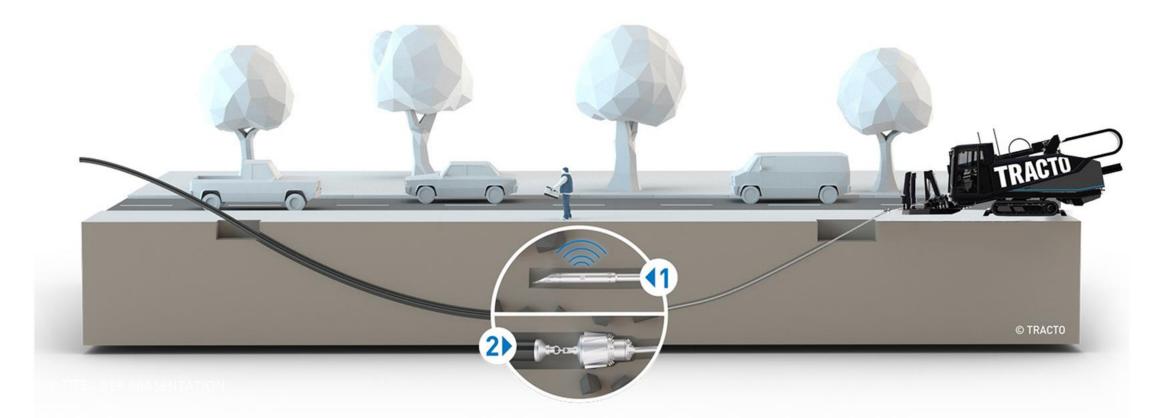


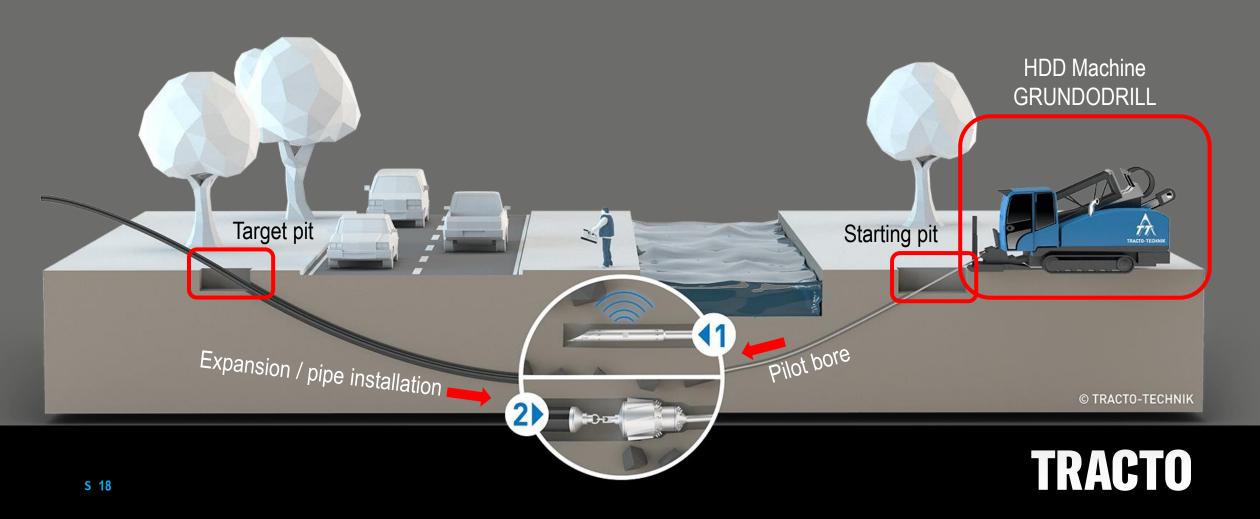
















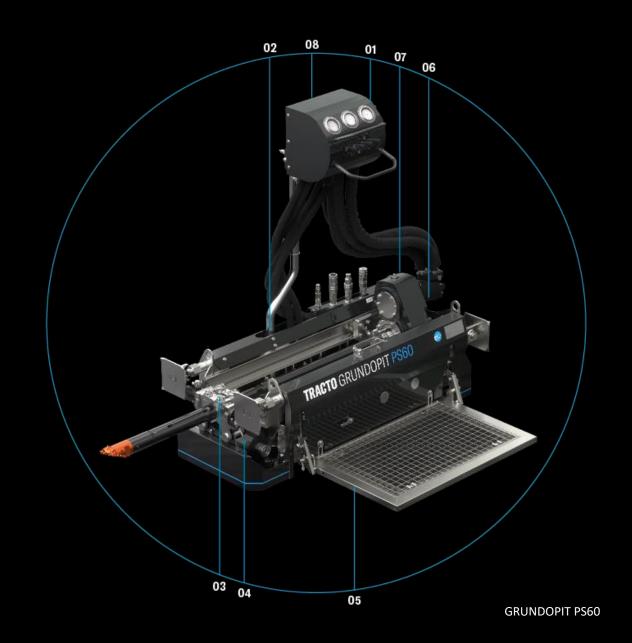


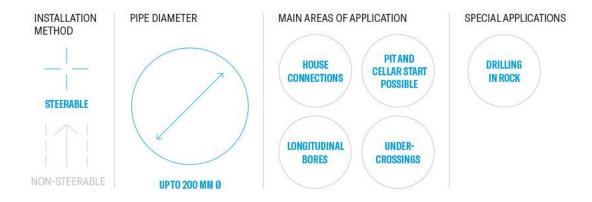
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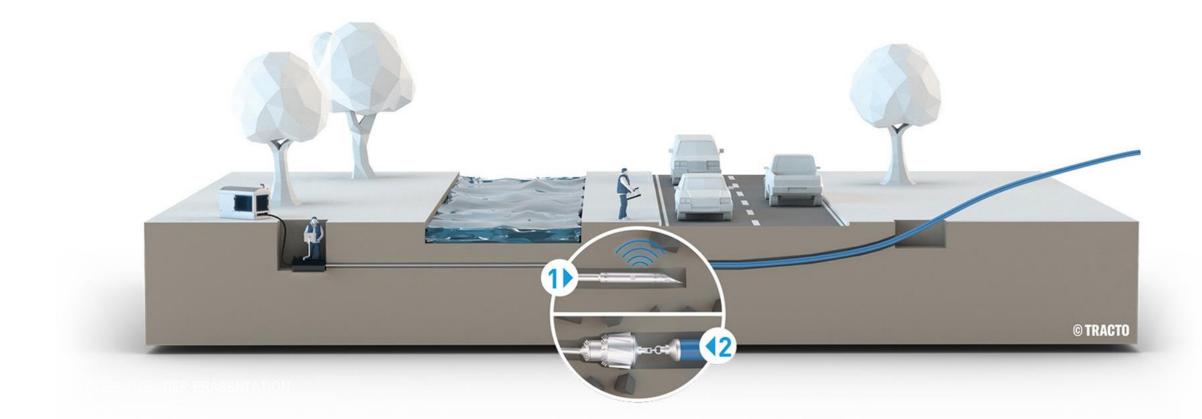
GRUNDOPIT MINI FLUID-ASSISTED HDD RIGS SMALL POWERHOUSES

The steerable GRUNDOPIT-Mini-fluid-assisted HDD rigs are ideal for pipe installations up to 100 m and the production of house connections in confined spaces, challenging terrains, such as slopes and/or difficult soils.

- **01** Connecting the hydraulic lines
- 02 Drill rod effective length 750 mm
- **03** Hydraulic clamp for rod change
- **04** Thrust via cylinder drive
- **05** Fold-out work platform
- **06** Twin-step rotation
- **07** Hydraulic tensioning in the working pit
- **08** Fold-out control panel

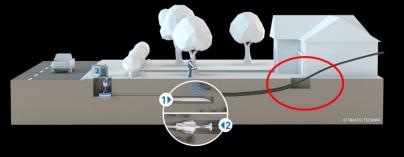












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PIPE REHABILITATION

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REHABILITATION

REPAIR

RENOVATE

RENEWAL

DYNAMIC – GRUNDOCRACK

STATIC – GRUNDOBURST

→ Installation of a fully prefabricated new pipe



MANY POSSIBILITIES WITH ONLY ONE TECHNOLOGY

INSTALLATION OF PIPES WITH THE SAME DIAMETER

INSTALLATION OF PIPES WITH THE LARGER DIAMETER

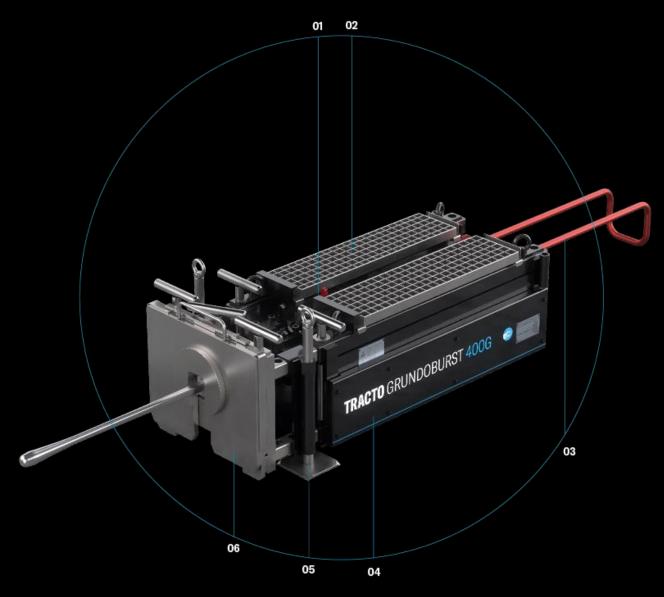
INSTALLATION OF PIPES WITH THE SMALLER DIAMETER



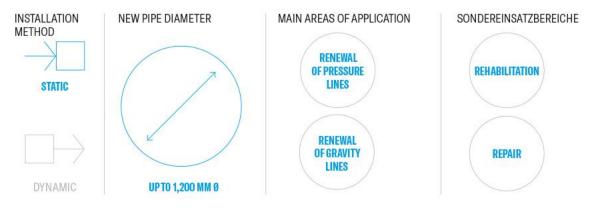
GRUNDOBURST STATIC PIPE BURSTING SYSTEMS THE RENEWERS

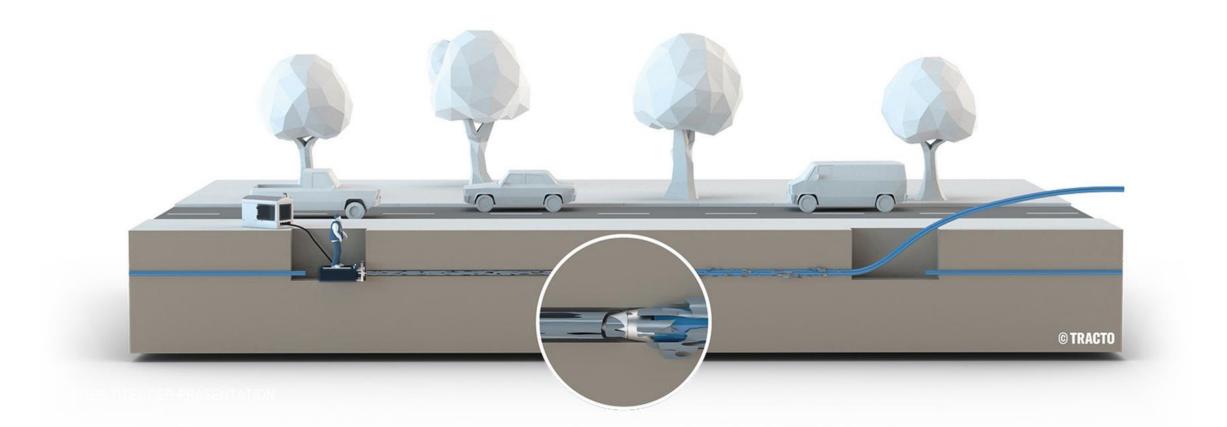
With the powerful GRUNDOBURST systems damaged old pipes up to ND 1.200 are renewed with static force safely and quickly in the existing bore path. The versatile burst rigs are also applicable for pipe relining.

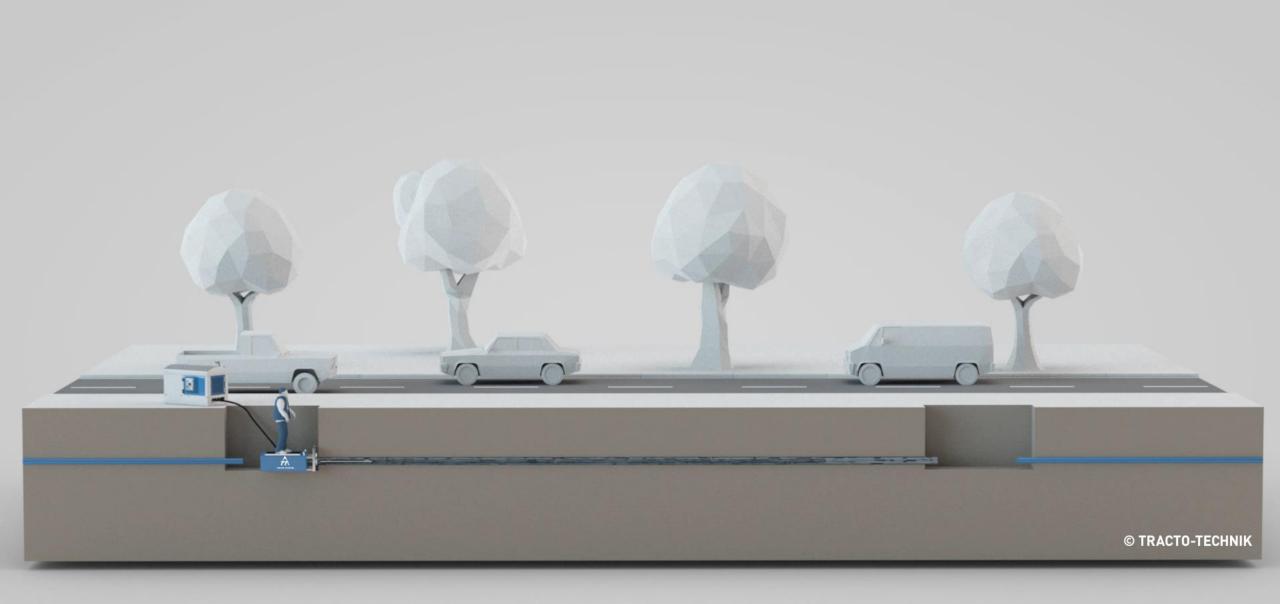
- **01** Two latch fingers prevent the burst rods from slipping back
- **02** Steps for safe standing
- 03 Safety bracket in the burst rod exit area
- 04 Very simple, robust frame design
- **05** Height adjustment via threaded rods
- 06 Integrated telescopic extension frame



APPLICATION







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TYPICAL JOBSITE SETUP



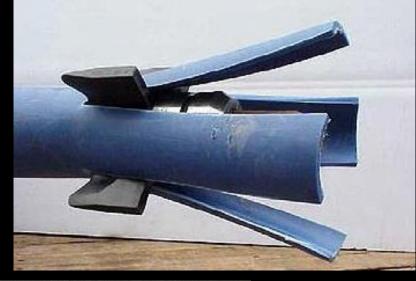




BURSTING HEADS - CUTTING KNIVES











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THANKYOU

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