GRUNDORAM & GRUNDOCRACK

THE DRIVING FORCES

DYNAMIC RAMMING SYSTEMS
DYNAMIC PIPE BURSTING SYSTEMS
DYNAMIC DOUBLE PACK
FOR STEEL PIPE INSTALLATION AND PIPE RENEWAL

GRUNDORAM
The pneumatically driven GRUNDORAM ramming machines provide thrust forces up to 40,000 Nm. Due to the galvanised one-piece machine housing and the elaborately tempered piston, the machine is especially robust, reliable and durable. The GRUNDORAM horizontal rammers can be operated in all kinds of soil types with the exception of muddy areas, swamps and compact, non-displaceable soils.

The most common GRUNDORAM application is the horizontal installation of steel pipes up to ND 4000 mm with dynamic impact and a small displacement volume. Steel pipes are used as media pipes, for example within the domain of pipeline construction or as casing pipes for bundling supply and waste disposal lines but also for building subways, smaller culverts and pipe roofs for tunnel construction.

With the appropriate accessories, the GRUNDORAM horizontal rammers can also be used for vertical applications, to support HDD drilling (HDD Assist) and for dynamic pipe renewal.

DYNAMIC STEEL PIPE INSTALLATION
- Horizontal application
- Vertical application
- HDD Assist & Rescue

DYNAMIC PIPE RENEWAL

DYNAMIC PIPE BURSTING

GRUNDOCRACK
The GRUNDOCRACK machines are modified horizontal ramming machines that are equipped with a reverse gear. This allows the accessories to be dismantled quickly and ergonomically and the machines to be easily recovered even in confined spaces.

The GRUNDOCRACK machines are particularly suitable for the dynamic renewal of damaged pipes made of brittle materials in closed construction. In addition to pipe renewal, the GRUNDOCRACK can also be used for pipe rehabilitation and, with the appropriate accessories, for dynamic steel pipe ramming.

DYNAMIC PIPE RENEWAL
- Dynamic pipe bursting
- Dynamic calibre bursting
- Dynamic Tight-In-Pipe

DYNAMIC STEEL PIPE INSTALLATION

The dynamic steel pipe installation method with GRUNDOCRAM horizontal rammers enables the economic installation of casing or product pipes up to 4000 mm diameter over lengths up to 100 m in soil classes 1-5 (partly even class 6 – easily soluble rock).

Target precision is achieved because the dynamic impact punches through the ground, destroying obstacles so they need not be displaced in one piece and pushed forward. The soil is collected inside the open steel pipe which is usually emptied using compressed air and/or water. The particular advantages of the TRACTO-TECHNIK rammers is that no press abutments are required, which significantly reduces set-up times.

DYNAMIC PIPE RENEWAL

With the dynamic pipe bursting method, old pipes made of stoneware, asbestos and fibre cement, grey cast iron, plastic or plain concrete, are shattered and simultaneously replaced by new HD-PE pipes (long and short pipes) or PVC-U short pipes with equal or larger cross-section.

The pipe bursting method is used if the function of the old pipe is impaired: this is the case, for example, in case of misalignment, cracks, missing sole or partial collapse or if repair/renovation is no longer possible. The method is also suitable for pipelines that need more hydraulic capacity improvement or when a new pipe with a new service-life is required.
The TRACTO-TECHNIK pipe ramming units are the only ramming machines which are able to abandon threaded connections which are normally common practice. The connection hose is exchanged quickly, simply and problem-free without swaging.

The massive housing consists of only one piece, manufactured from a single forged part and then galvanised. Due to precise deep hole boring, the piston impact makes its way to the head of the ramming machine, effectuating direct force transmission.

The short and highly efficient mini machines are ideal for propulsion in the pipe; they are the optimal choice for working in narrow and inaccessible places.
FULL POWER AHEAD
The massive piston is embedded on several slider belts which prevent the material-wearing friction of metal on metal. Sealing rings minimise air consumption and increase performance, thus leading to greater efficiency - the rate of progression is raised accordingly.

01 Simple operation
compressed air on/off, no additional control

02 Housing is chromium-plated inside
for long lasting maximum efficiency

03 Front and rear cone

04 Elastically mounted control
minimal wear despite the application of extreme loads

05 Solid housing in one part
heavy-duty without seams or screwed fittings

06 Greatest ramming impact
for high rate of progression

Short versions for special applications
and operation within confined spaces

Versatile accessories available
DYNAMIC PRODUCTIVITY
GRUNDOCRACK

REVERSE GEAR / SERVO CONTROL

With the easy to handle servo control, you switch over from forward into reverse gear by simply throwing the lever.

FORGED FROM ONE PIECE

The massive housing consists of only one piece, manufactured from a single forged part and then galvanised. Due to precise deep hole boring, the piston impact makes its way to the head of the machine, effecting direct force transmission.
01 Pulling eye for cable connection
guides the machine precisely to the target

02 Smooth machine housing
simple recovery of the machine through
the new pipe in limited space

03 High impact energy

04 Chromium-plated inner and outer housing
for long lasting maximum efficiency

05 Elastically mounted control
minimal wear even with extreme load

06 Heavy-duty one-piece housing
without seams or screwed fittings

07 Front cone
direct/optimal power transmission
into the expander
METHOD
DYNAMIC STEEL PIPE INSTALLATION

The piston strikes inside the head of the one-piece ram housing. Passing through the plug-on cone, the generated impact energy is transferred directly to the steel pipe casing, which is then driven steadily through the ground.

1. PIPE INSTALLATION

The ramming machine is firmly connected to the pipe to be installed using an attachable cone before being aligned axially behind the pipe with the aid of the lifting cushion. Thanks to the soil removal adapter or cone, the soil inside the pipe can partially escape, while the pipe is being driven forward.
The soil, which is gathered inside open pipe during the ramming process, is finally expelled into the target pit using compressed air and/or water. Alternatively, the soil can be drilled out, flushed out or, dredged out if necessary.
APPLICATIONS
DYNAMIC STEEL PIPE INSTALLATION

UNDERCROSSENGS
Pneumatically driven GRUNDORAM horizontal rammers are used for the dynamic installation of steel pipes up to Ø 4,000 mm underneath roads, railway tracks, buildings and rivers over lengths up to 80 m.

HDD-ASSIST
The steel pipe rammers are also perfectly suitable to successfully complete complicated HDD bores.

- **CONDUCTOR BARREL**
  In soils which are impossible to bore through, a steel pipe is rammed through the relevant soil layer the fluid-assisted horizontal drilling operation can then commence.

- **PULL-BACK ASSIST**
  When pulling in steel pipes for HDD, the GRUNDORAM can give dynamic support or release pipes if they become jammed. The ramming machine is firmly connected to the steel pipe at the rear, guaranteeing efficient impact energy transmission.

- **HDD ROD RECOVERY**
  Pulling out trapped drill rods with the aid of an adapter and dynamic ramming force

- **BORE SALVAGE**
  Retrieving jammed product casing pipes after the HDD operation
VERTICAL APPLICATIONS
When applied vertically, the pipe ramming technique can be used for a numerous different job site situations.

- FOUNDATIONS AND PILE FOUNDATIONS
  For overhead signs, noise barriers, building securities etc.

- WELL CONSTRUCTION
  Vertical steel pipe driving to install wells. Emptying with round grabs

- RAMMING IN SHEETING WALLS
  Steel sheet piles or double T-beams, for securing construction pits etc.
WELL-EQUIPPED ACCESSORIES FOR DYNAMIC STEEL PIPE INSTALLATIONS

Accessories perfectly adapted to the ramming machine guarantee optimum progress in every type of soil. Robustness and durability of all parts are also guaranteed.

**PLUG-ON CONES**
Using attachable taper-lock ram cones, the GRUNDO-RAM is firmly connected to the pipe that is to be installed.

**IMPACT SEGMENTS**
The multi-part impact segments prevent pipe end flare and improves the optimal induction of impact power.

**SOIL REMOVAL ADAPTERS**
With a soil removal adapter or taper-lock ram cones, the soil inside the pipe can partially escape while the pipe is being driven forward.
**STARTING CRADLE WITH LIFTING CUSHION**

With the lifting cushion positioned inside the starting cradle, the heavy ramming machines can be lifted and lowered without effort.

Available in 4 types all with adequate lifting force.

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**PRESSURE PLATE WITH RIGID FOAM PLUG**

The pressure plate closes the end of the pipe, making it pressure resistant to enable pushing the soil core out. Depending on the type of soil, a foam plug may be necessary to seal the front.

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**CUTTING SHOE**

Cutting shoes reinforce the cross section of the front-end pipe, protect the insulation of the pipe and reduce coat friction, both inside and outside.

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**LUBRICATING CUTTING SHOES**

Lubricating cutting shoes additionally lubricate the pipe, inside and outside, thus reducing friction and facilitating the pipe drive.

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**THE 7-L OIL LUBRICATOR**

Is connected in between the compressor and the machine to enable lubrication of the internal piston.

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Further accessories available upon request.
METHOD
DYNAMIC PIPE BURSTING

The air-driven pipe cracking machine shatters the old pipe while advancing through the old pipe and radially displaces the fragments into the surrounding soil. The bore hole for the new pipe is extended at the same time. The pulling force of a winch supports the pipe cracker, guaranteeing safe guidance through the given pipe path.
FRONT EXPANDER (GRUNDOCRACK)

GRUNDOCRACK with smooth front expander and PE connection piece for long pipes

REAR EXPANDER (GRUNDORAM)

GRUNDORAM with smooth rear expander and PE connection piece for long pipes
APPLICATIONS
DYNAMIC PIPE RENEWAL

DYNAMIC PIPE BURSTING (LONG PIPE)

Trenchless renewal in the existing pipe path. Installation of the new pipes with identical or larger nominal diameters.

DYNAMIC PIPE BURSTING (SHORT PIPES)

Partial damage is expanded dynamically and a new pipe is pulled in simultaneously.

CALIBRE PIPE BURSTING (LONG PIPES)

TIGHT-IN-PIPE (TIP)

Short or long pipe relining of concrete or stoneware pipes. The new pipe fits tightly inside the old pipe.
WELL-EQUIPPED ACCESSORIES FOR DYNAMIC PIPE RENEWAL

We offer a wide range of precisely fitting accessories for adaption to different soil conditions and old pipe materials during pipe renewal.

SMOOTH EXPANDER

EXPANDER WITH CUTTING BLADES
SHORT PIPE TENSIONING DEVICE
Spannfix with pulling rope

THE 7-L OIL LUBRICATOR
is installed between the compressor and the machine to enable lubrication of the internal piston.
## TECHNICAL SPECIFICATIONS

### GRUNDORAM STANDARD MACHINES

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<thead>
<tr>
<th>GRUNDORAM TYPE</th>
<th>DAVID</th>
<th>ATLAS</th>
<th>TITAN</th>
<th>OLYMP</th>
<th>HERKULES</th>
<th>GIGANT</th>
<th>KOLOSS</th>
<th>GOLIATH</th>
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GRUNDORAM MINI MACHINES

- No abutment required – short set-up times
- One-piece, deep-hole drilled housing – high creep rupture strength and optimum energy transmission with maximum impact force and enormous thrust power
- Segmental machine lock with elastically suspended control – safe, positive locking design
- Service-friendly design with only one-sided machine closure
- Mini machines with shortened overall length for use in confined spaces and with reverse gear for simple and ergonomical disassembly of the ramming accessories

GRUNDORAM TYPE

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<th>MINI ATLAS</th>
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KULES

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<td>4,400</td>
<td>173.2</td>
<td>25,353.1</td>
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GRUNDOCRACK - 24/25

**TECHNICAL SPECIFICATIONS**

- Massive one-piece housing - heavy-duty without welded or screwed connections
- Smooth machine body - easy recovery through the new pipe in confined spaces
- Reverse gear with servo control – easy loosening of accessories and ergonomic handling
- Pulling eye for rope connection – on-target guidance of the machine
- Front cone – direct/optimal force introduction into the expander
- Elastically mounted control – gentle on materials

<table>
<thead>
<tr>
<th>GRUNDOCRACK</th>
<th>PCG 130</th>
<th>PCG 180</th>
<th>PCG 200</th>
<th>PCG 260</th>
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<td>✗</td>
<td>-</td>
<td>-</td>
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<tr>
<td>with pulling eye</td>
<td>-</td>
<td>✗</td>
<td>✗</td>
<td>✗</td>
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Subject to change.
SERVICES ALL AROUND TRENCHLESS TECHNOLOGY
INTELLIGENT SOLUTIONS WITH ADDED VALUE

Before or after any purchase either in person or online - we are always at hand with help and advice for you. We can offer you comprehensive services and consultation that are specially tailored to the requirements in trenchless pipeline construction. Our services are as diverse as our range of products so you can concentrate fully on your business. www.TRACTO-TECHNIK.com/Services

DIGITAL SOLUTIONS
On our website, you will find important information about our company, our products and their use in digital form. You can view the contents that interest you quickly and easily via the user-friendly, clearly structured navigation. Links to our social media channels can also be found there. For ordering accessories and spare parts for our NODIG technology products there is our eShop. You can order merchandising items with the "mole label" there as well.

Our cloud-based solutions for the HDD drilling technology combine planning, execution, billing, documentation and service in one location. With the COCKPIT, you always have the very latest all key machine data to review at any time of the day. With the COCKPIT, you always have the very latest key machine data to review at any time of the day. With the QuickPlanner3D function, you can plan the shortest and safest bore path in next to no time. Our digital solutions make trenchless technology even more efficient and profitable, simply via PC, smartphone or tablet.

FINANCING & WARRANTY
We offer attractive financing solutions for new and used machines to our customers and sales partners through TRACTO-TECHNIK Finance GmbH. Be it financing, hire purchase, various types of leasing or insurance: we provide extensive expert advice in order to find the tailored solution for you. Discretion goes without saying.

USED EQUIPMENT
Your used equipment is in good hands with us. Be it our own or third-party products, be it with new purchase or not - you can rely completely on our full service. We assess the equipment on-site, advise you on purchase or trade-in and carry out the professional repair. With the "Certified Used Equipment" seal of approval, we achieve the best price for you via our use machine website with access to one of the world’s largest construction machinery platforms.

AFTER SALES
Via our worldwide service network, even after your valued purchase we will be there to assist you. Alongside our headquarters in Lennestadt, we have a total of six other TRACTO-TECHNIK customer centres in Germany as well as our worldwide sister companies and sales partners guarantee of fast supply of spare parts and immediate availability. Our competent service staff offer fast assistance to make sure that you do not lose any valuable in case of emergency - wherever you may be.

TRAININGS
Qualified training in theory and practice are a central concern for us to enable users and partners to achieve the greatest possible success with our products. The broad course range does not only address users, machine operators and service technicians, but equally specialists and managers, planners and contractors who would like to learn more about the versatile applications of the various NODIG systems. Our tailor-made training are held at our company locations or individually at your premises by certified trainers. Content, upcoming dates and registration details are on our website.

GEOSERVICE
In Germany, our Geoservice provides far-reaching geological expertise to support your projects. We offer advice on planning and drilling, for example in the courses of planned bore paths or by submitting queries about building ground. Furthermore, we can write geological assessments, review construction documents to determine the potential for supplements and draw up corresponding statements.
SERVICES ALL AROUND TRENCHLESS TECHNOLOGY
INTELLIGENT SOLUTIONS WITH ADDED VALUE
Before or after any purchase either in person or online - we are always at hand with help and advice for you. We can offer you comprehensive services and consultation that are specially tailored to the requirements in trenchless pipeline construction. Our services are as diverse as our range of products so you can concentrate fully on your business.

www.TRACTO-TECHNIK.com/Services

DIGITAL SOLUTIONS
On our website, you will find important information about our company, our products and their use in digital form. You can view the contents that interest you quickly and easily via the user-friendly, clearly structured navigation. Links to our social media channels can also be found there. For ordering accessories and spare parts for our NODIG technology products there is our eShop. You can order merchandising items with the "mole label" there as well.

Our cloud-based solutions for the HDD drilling technology combine planning, execution, billing, documentation and service in one location. With the COCKPIT, you always have the very latest all key machine data to review at any time of the day. With the QuickPlanner3D function, you can plan the shortest and safest bore path in next to no time. Our digital solutions make trenchless technology even more efficient and profitable, simply via PC, smartphone or tablet.

FINANCING & WARRANTY
We offer attractive financing solutions for new and used machines to our customers and sales partners through TRACTO-TECHNIK Finance GmbH. Be it financing, hire purchase, various types of leasing or insurance: we provide extensive expert advice in order to find the tailored solution for you. Discretion goes without saying.

USED EQUIPMENT
Your used equipment is in good hands with us. Be it our own or third-party products, be it with new purchase or not - you can rely completely on our full service. We assess the equipment on-site, advise you on purchase or trade-in and carry out the professional repair. With the "Certified Used Equipment" seal of approval, we achieve the best price for you via our use machine website with access to one of the world’s largest construction machinery platforms.

AFTER SALES
Via our worldwide service network, even after your valued purchase we will be there to assist you. Alongside our headquarters in Lennestadt, we have a total of six other TRACTO-TECHNIK customer centres in Germany as well as our worldwide sister companies and sales partners guarantee of fast supply of spare parts and immediate availability. Our competent service staff offer fast assistance to make sure that you do not lose any valuable in case of emergency - wherever you may be.

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