

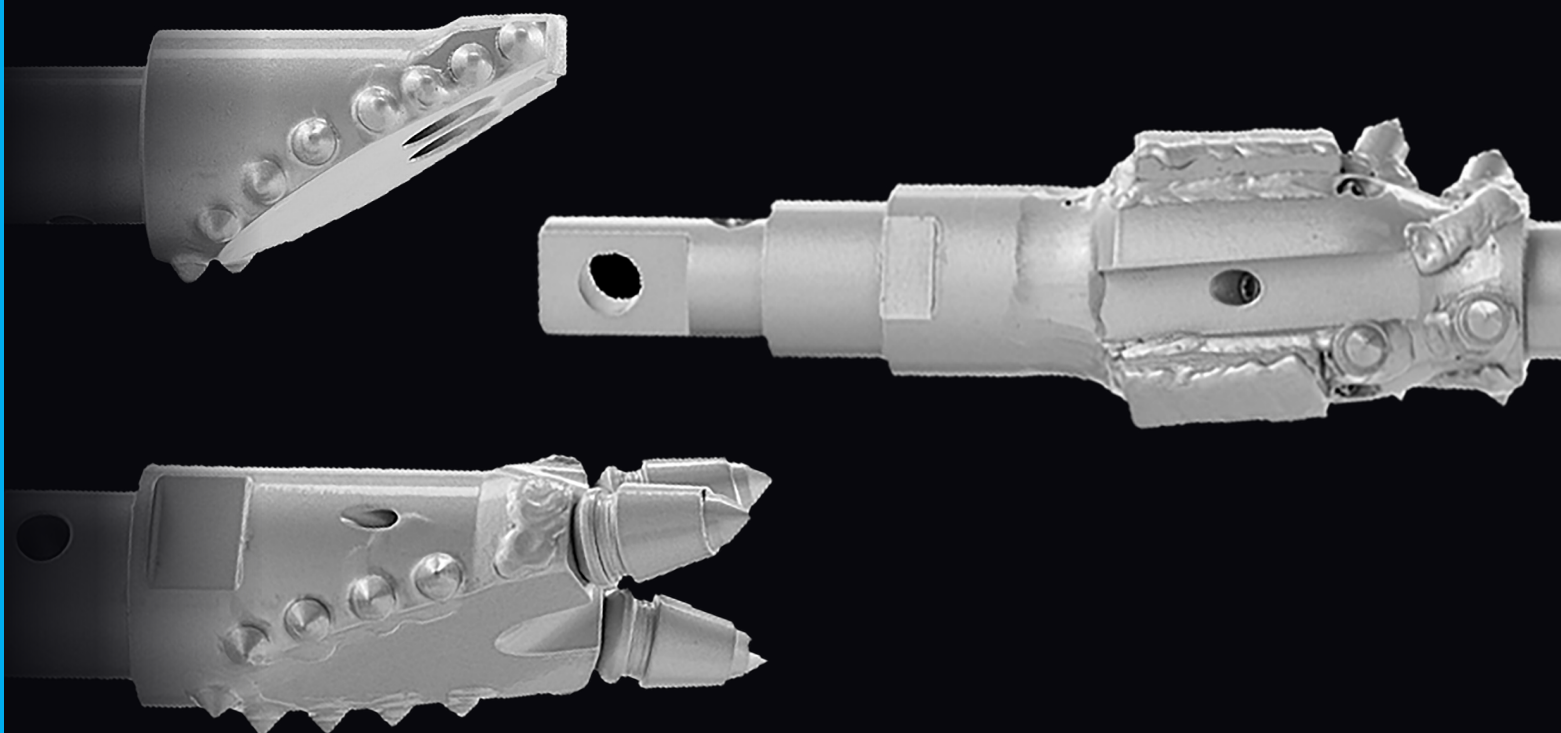
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ADVANCED TRENCHLESS TECHNOLOGY

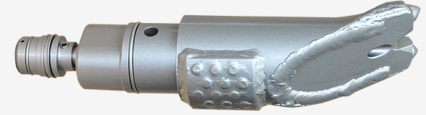
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Bore heads

for coarse gravel mixed soils, debris, hard and aggressive soils
Hard Drill Head (HDH) Twin Pins

- for heavy soils, e.g. inhomogeneous rock
- preferably for debris and hard, non-displaceable soils
- very easy to steer



Hard Drill Head Twin Pins for sonde housing \varnothing 65 mm - \varnothing 80 mm

Part No.: DRI 4716

for light to medium heavy soils
Bore head for mini-bore head assembly

Bore head \varnothing 58 mm for mini-bore head assembly

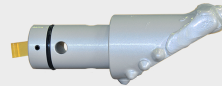
- with exchangeable square framed chisels
- very easy to steer
- easy exit of the bore path
- extremely high wear protection due to hard metal armouring



Part No.: PIT 4714

Bore head \varnothing 65 mm for mini-bore head assembly

- very easy to steer
- easy exit of the bore path
- extremely high wear protection due to hard metal armouring



Part No.: PIT 4715

Sonde housings

Sonde housings with plastic inner sleeve for sealing the sonde before rinsing the bore.

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly

Mini sonde housing for Slim sondes, bore head Ø 58 mm, thread connection TR 34

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly

Part No.: PIT 4010

Sonde housing Ø 65 mm for bore heads > Ø 65 mm and standard sondes, thread connection TR 34

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly



Part No.: PIT 4020

Sonde housing Ø 65 mm short construction form, for sondes without buffer, thread connection TR 34

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly

Part No.: PIT 4021

Sonde housing Ø 65 mm short construction form, for sondes without buffer, Quick Connect connection

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly

Part No.: PIT 6021

Sonde housing Ø 65 mm short construction form, for sondes without buffer, thread connection EL 51

- high quality material
- rigid construction
- long-life construction
- jobsite-wise
- quick bore head assembly

Part No.: PIT 6022

Drill rods

High load capacity, long service life and low loosening period.

Drill rods TR 34

(patented)

- Flat width, only one-side screwing required
- made of specially hardened and tempered, flexible special steel
- L 500 mm (effective length)
- high load capacity
- construction based on long-term experience



Part No.: PIT 216114

Drill rods EL 51

(patented)

- Flat width, only one-side screwing required
- made of specially hardened and tempered, flexible special steel
- L 750 mm (effective length)
- high load capacity
- construction based on long-term experience

Part No.: PIT 6355

Adapter for drill rods EL 51 to connect drilling tools with quick connect



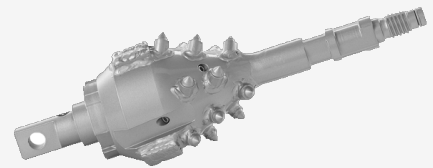
Part No.: YY 309505

Backreamers

Tools for expanding the pilot bore. Due to the variety of soils there is a wide range of backreamers available to ensure the best possible bore progress. Thus TT offers various backreamers to be perfectly equipped even for rock bores. We also construct custom-made backreamers. Please contact us for details on the different backreamer versions.

Medium-Soil-Reamer (MSR) for fine sandy up to medium grave soils
Conical backreamers

- conical shape for a steady run and optimal smoothing of the borechannel
- different bit sets for varying soil conditions available
- optimal nozzle geometry for loosening and excavating soil
- exceptionally long-life, rigid and low wear construction
- suitable for almost all soil types
- also available with integrated swivel



for drill rods TR 34

Ø 95 mm, Sharkbit

Part No.: DRI BSAE4M

Ø 110 mm, Sharkbit

Part No.: DRI 4BSAE4E

Ø 125 mm, Sharkbit

Part No.: DRI 4BAAE4E

Ø 140 mm, weld-on claws

Part No.: DRI 4BAAE4F

Ø 165 mm, Sharkbit

Part No.: DRI 4BBAE4E

Ø 165 mm, weld-on claws

Part No.: DRI 4BBAE4F

Ø 215 mm, Sharkbit

Part No.: DRI 4BDAE4E

Ø 225 mm, weld-on claws

Part No.: DRI 4BDAE4F

Backreamers

for drill rods EL 51

Ø 95 mm, Sharkbit Part No.: DRI 4BSAE6M

Ø 110 mm, Sharkbit Part No.: DRI 4BSAE6E

Ø 125 mm, Sharkbit Part No.: DRI 4BAAE6E

Ø 140 mm, weld-on claws Part No.: DRI 4BAAE6F

Ø 165 mm, Sharkbit Part No.: DRI 4BBAE6E

Ø 165 mm, weld-on claws Part No.: DRI 4BBAE6F

Ø 215 mm, Sharkbit Part No.: DRI 4BDAE6E

Ø 225 mm, weld-on claws Part No.: DRI 4BDAE6F

for drill rods EL 51 Quick Connect

Ø 95 mm, Sharkbit Part No.: DRI 4BSAK4M

Ø 110 mm, Sharkbit Part No.: DRI 4BSAK4E

Ø 125 mm, Sharkbit Part No.: DRI 4BAAK4E

Ø 140 mm, weld-on claws Part No.: DRI 4BAAK4F

Ø 165 mm, Sharkbit Part No.: DRI 4BBAK4E

Ø 165 mm, weld-on claws Part No.: DRI 4BBAK4F

Ø 215 mm, Sharkbit Part No.: DRI 4BDAK4E

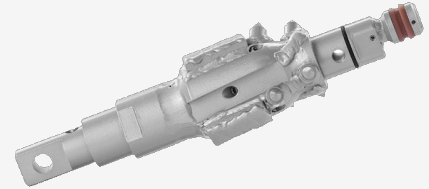
Ø 225 mm, weld-on claws Part No.: DRI 4BDAK4F

Backreamers

Medium-Soil-Reamer (MSR) for fine sandy up to medium gravel soils
Plug-in backreamers

TT-Backreamer for assembly to sonde housing \varnothing 65 mm with integrated swivel

- very quick and easy tool exchange, bore head out, backreamer in (plug-in system)
- Time saving, especially for small pipe sizes from \varnothing 40 to 110 mm and very tight working pits
- with different bits



Plug-in Reamer \varnothing 95 mm, Sharkbit, for sonde housing \varnothing 65 mm

Part No.: DRI 4BSAS1E

Plug-in Reamer \varnothing 155 mm, Burls, for sonde housing \varnothing 65 mm

Part No.: DRI 4BBAS1B

Backreamers

Medium-Soil-Reamer (MSR) for fine sandy up to medium gravelly soils
Grundream

Ø 97 mm for bores Ø 130 - 200 mm with integrated swivel

- Backreamer body with exchangeable cutting blades for varying theupsizing diamter
- distinctively reduced torque due to optimum blade geometry
- excellent cutting effect with high spoil discharge
- with non-return valve in basic body (no low pressure in the backreamerbody, prevents infiltration of soil particles)
- hardly any wear at the basic body
- optimum jet nozzle



Basic body with swivel, connection TR 34

Part No.: DRI 245349

Basic body with swivel, connection EL 51

Part No.: PIT 6210

Basic body with swivel, connection Quick Connect EL 51

Part No.: PIT 6210.1

Blade set Ø 130 mm

Part No.: DB P1M130B1

Blade set Ø 150 mm

Part No.: DB P1M150B1

Blade set Ø 200 mm

Part No.: DB P1M200B1

Backreamers

Backreamer basic body for GRUNDOPIT 4060

(Pulling rod with assembled swivel)

- Backreamer basic body to retain various set-ups for altering the expanding diameter
- hardly any wear to basic body
- quick Backreamer attachment assembly



Backreamer attachment Ø 90 mm

- quick and jobsite compatible tool exchange
- conical shape for a steady run and optimal smoothness of bore channel
- various sets for various soil conditions are available
- suitable for almost all soil types



Part No.: PIT 4204

Backreamer attachment Ø 105 mm

- quick and jobsite compatible tool exchange
- conical shape for a steady run and optimal smoothness of bore channel
- various sets for various soil conditions are available
- suitable for almost all soil types



Part No.: PIT 4205

Backreamer attachment Ø 125 mm

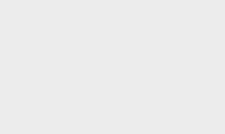
- quick and jobsite compatible tool exchange
- conical shape for a steady run and optimal smoothness of bore channel
- various sets for various soil conditions are available
- suitable for almost all soil types



Part No.: PIT 4207

Backreamer attachment Ø 145 mm

- quick and jobsite compatible tool exchange
- conical shape for a steady run and optimal smoothness of bore channel
- various sets for various soil conditions are available
- suitable for almost all soil types



Part No.: PIT 4208

Backreamer attachment Ø 185 mm

- quick and jobsite compatible tool exchange
- conical shape for a steady run and optimal smoothness of bore channel
- various sets for various soil conditions are available
- suitable for almost all soil types



Part No.: PIT 4209

Backreamer Accessories

Guide rail with burls (34 burls 9 x 9 mm)

as wear protection for the basic body, displacing tool
Height: 25 mm, Width: 30/16 mm



Part No.: DRI 4203

Guide rail with burls (38 burls 8 x 8 mm)

as wear protection for the basic body, displacing tool

Height: 25 mm, Width: 30/16 mm

Part No.: DRI 4204

Rock drilling technique

Special drilling tools for penetrating rock

Hammer bore head with sonde housing for GRUNDOPIT 4060

Rock drilling package consisting of hammer bore head with sonde housing for Slim sondes



Part No.: PIT 8023A

Hammer bore head with sonde housing for GRUNDOPIT PS60 with EL 51

Rock drilling package consisting of hammer bore head with sonde housing for Slim sondes

Part No.: PIT 6082

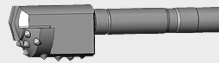
Hammer bore head with sonde housing for GRUNDOPIT PS60 with Quick Connect

Rock drilling package consisting of hammer bore head with sonde housing for Slim sondes

Part No.: PIT 6081

Bore head for air-driven hammer bore head

- for hard, non-displaceable soils
- extremely high wear protection
- optimal free-cutting
- Ø 65 mm



Part No.: YY216423

Bore head for direct assembly to the sonde housing of the hammer bore head

- for hard, non-displaceable soils
- extremely high wear protection
- optimal free-cutting
- Ø 65 mm



Part No.: PIT 4712

Chisel for direct assembly to the sonde housing

Mixing systems / Hydraulic power units

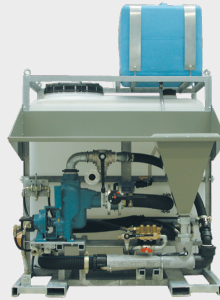
Compact, powerful mixing and hydraulic units for operating the GRUNDOPIT systems

Drilling fluid mixing and supply system MA 09

The mixing and pumping system MA09, is a compact, highperformance for small horizontal drilling systems, such as Grundopit 40/60 or Grundodrill 4X, but also applicable for other bore units.

Due to the high circulation capacity of the mixing pump at 500l/min the drilling fluid can be mixed very quickly with only very short interruptions to the bore itself. The low space requirements of only 1,45 x 1,40 m, as well as empty weight of only 370 kg allow for a set-up on the smallest transport vehicle.

- Bentonite flow rate 42 l/min
- 1000 l mixing tank
- 200 l fresh water tank

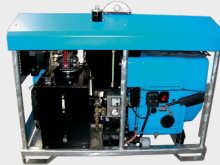


Part No.: PIT 8090

Hydraulic power unit TT B20

Yet during the pilot bore in hard soils the difficult conditions call for the use of Grundopit-Power. Unlike the Grundopit-Standard the application of stronger power units considerably improves the Grundopit performance capacity.

The torque increases from 600 Nm to 1000 Nm.



Part No.: PIT 8907

Hydraulic power unit TT M9

Independent of operating the smallest Grundopit bore rig, the hydraulic power unit TT M9 can also be used to operate the mixing system MA 09 or as a replacement for older types of power units, such as Lifton fuel power units.

The proven Hatz Diesel engine stands for quiet and constant operational performance.

- max oil flow rate 45 l/min.
- max. operating pressure 150 bar

Considering the high fuel costs, the 20 % lower consumption is worth mentioning.

The Diesel tank has a capacity of 22 l, the hydraulic tank has 66 l.



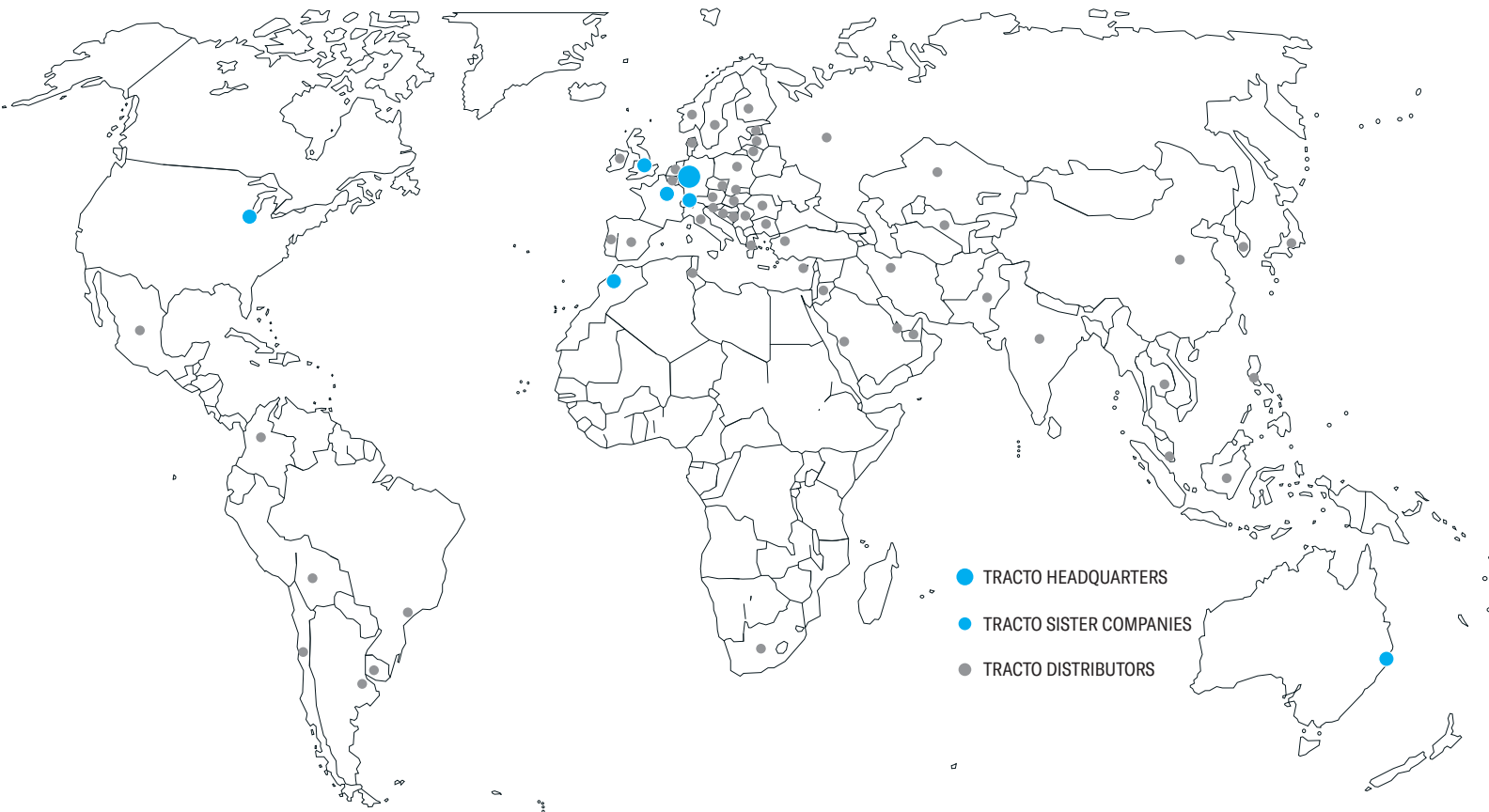
Part No.: DRI 8911

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