

GRUNDOMAT - soil displacement hammers
up to Ø 180 mm - for more than 35 years



GRUNDOSTEER - up to Ø 63 mm
The first guided mole



GRUNDORAM - Steel pipe rammers
for steel pipes up to Ø 4000 mm



GRUNDOCRACK
Dynamic pipe bursting
Pipe replacement up to Ø 1000 mm



Model 800 G

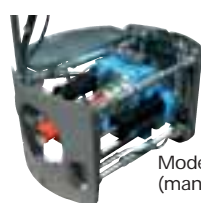


Model 400 S



Model 2500 G

GRUNDOBURST - Static pipe bursting
Models: 400 G + S, 800, 1250 and 2500 G
Pipe replacement up to Ø 1000 mm



Model 200 S
(manhole version))

GRUNDOBORE
Auger boring systems
pilot steered, e. g. for gradient pipes
Model 200 S and 400



GRUNDOPIT "P"-Family
Models: Standard, Power, Shaft, Compact
Mini boring systems for pit launch
4 t pulling force, bores up to Ø 180 mm



Model 4 X

GRUNDODRILL "X"-Family
HDD systems, Models 4X, 7xplusTD, 10, 13 and 15XTD
4 -16 t thrust/pulling force, bores up to Ø 450 mm
7X with or without weather protection



Model 7 X



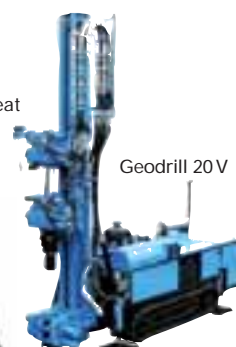
Model 15 N



Model 25 N

GRUNDODRILL "N" Family
HDD systems for special requirements
15 t thrust/pulling force, 2 t torque reserve
Bores up to Ø 600 mm, bore lengths up to 400 m

GEODRILL
Boring systems for
extracting geothermal heat
Model Geodrill 20 V
for vertical bores and
4 R for radial bores



Geodrill 20 V



Geodrill 4R

PRIME DRILLING - Large HDD rigs
up to 600 t pulling force, bores up to Ø 2000 mm



FOECKERSPERGER - pipe and cable plows
sales cooperation for the international market



TT-Grundodrill 4 X

*The smallest and most
powerful HDD bore rig
in its class*



TRACTO-TECHNIK



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Text and images subject to change!



SMALL & POWERFUL



...with the strength of a tiger

Grundodrill 4X: TOP bore rig in its performance class

The small, compact and consequently very versatile HDD bore rig Grundodrill 4X has stood the test, particularly in narrow working conditions and in sandy clay soils. Due to the small set-up space required and the low weight, hardly any surface damage is caused. Especially in difficult to access regions, where the transport of heavy equipment is a real problem - for example in residential areas; in narrow alleys; with house connections for sewage water, fibre optic cables, gas and water or with the connection for wind power plants - the Grundodrill 4X is the ideal bore rig. With an operating range of more than 100 m the bore hole can be expanded to maximally 235 mm. To support the achievement potential of this bore rig two mixing systems are offered, these being the MA 09-60 and the MA 04. The short set up times and the fact that the bore rig is quickly ready for action allow exceptionally high boring performances. This compact and operator friendly bore rig is a valuable addition to any HDD fleet.



SIZE
Short, narrow, versatile, small set-up area, easy carriage (transport)

MAGAZINE/BREAK-AWAY SYSTEM
Drill rod box with 32 drill rods for approx. 50 m. Fully automatic clamping, loosening and swivelling of the drill rods (Smart Vice)

REMOTE CONTROL



CONTROL STAND
The comfortable control stand with easily surveyable operating panel and joystick

ENGINE
Kubota diesel engine with 25 kW driving power, 44 l diesel tank and 83 l hydraulic tank in the chassis frame

CONSTRUCTION/CHASSIS
The compact construction with stabilisers, rubber-tracked undercarriage and an optimal weight distribution guarantee a high stability and support. If necessary the 4X can additionally be stabilized by the hydraulic **ANCHORING BORE SYSTEM**.

Grundodrill 4 X



Tested safety

Technical data

Max. thrust and pulling force:	43 kN
Torque at 230 rpm:	1300 Nm
Drill rods	32 each 1525 mm
Smallest bending radius:	25 m
Pilot bore diameter:	58 mm
Outer pipe diameter:	< 160 mm
Bore length:	100 m
Weight:	1845 kg



Lorry with Grundodrill 4X on the way to a jobsite in the North Sea. It would have been impossible to use a bigger boring machine there.



WEIGHT / DIMENSIONS
enable easy **TRANSPORT** on a small trailer, depending on the mixing system even on a pick-up or on a small lorry. The **DRIVE MODE** is carried out with a remote control.



Individual possibilities for configuration/transport...



...and mixing system.



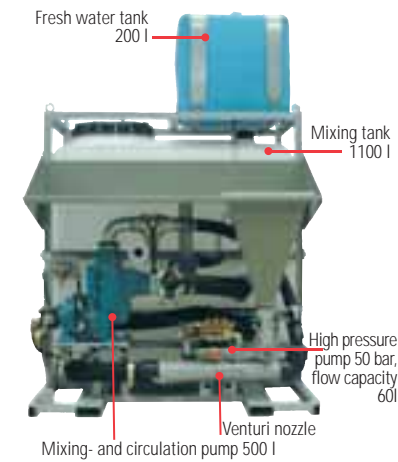
Installation of sewage pressure pipes.



Alternative

Bentonite mixing system Type MA 09-60

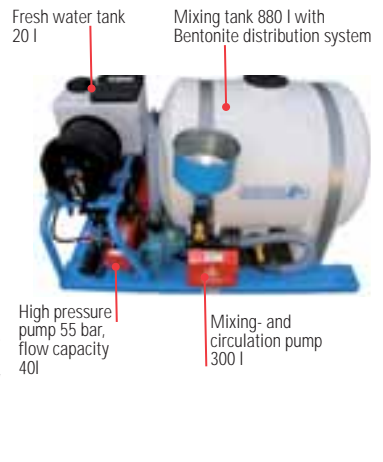
External drive with hydraulic station, type TTM9, 10 kW driving power



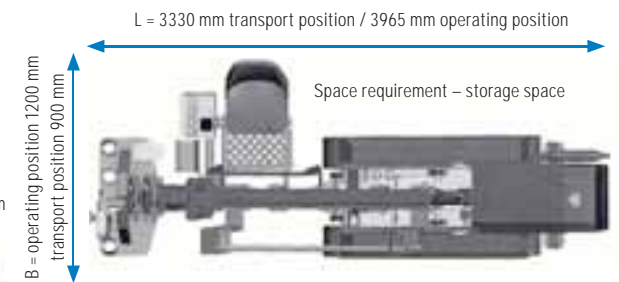
Storage space (LxWxH) 1450 x 1380 x 2055 mm

Bentonite mixing system Type MA 04

Integrated drive with Hatz diesel engine, 5 kW driving power



Set-up space (LxWxH): 1850 x 1170 x 1100 mm



Grundodrill 4X and MA 04 can be transported on a pick-up and a trailer.