

INSPIRING TRENCHLESS TECHNOLOGIES



TRACTO-TECHNIK



4X SMART
MOBILE

GRUNDODRILL^{4X}
Fluid-assisted HDD rig



**Hydraulic anchor
drilling system** for
stability while drilling

**Hydraulic
rod clamp**

COMPACT CATEGORY

Consumes little, achieves a lot

ROTARY DRIVE



Compact high-performance rotary drive with rack and pinion.

CABLE-BASED REMOTE CONTROL



For simple and safe driving and positioning.

Rod magazine with
a drill rod capacity
of **32 rods for 48 m**

**High-capacity
rotary drive** with
1,300 Nm and 230 rpm

Kubota diesel motor with
28 kW driving power

Compact design
for working in the
most confined spaces

**Rubberised steel track
undercarriage** - extreme
off-road performance
and stability

Stabilisers - maximal
self-support, variable
inclination of the cradle for an
optimal penetration angle



CONTROL STATION



With the clearly laid-out control panel and a multi-functional joystick.

SMART VICE SYSTEM



For a quick break-away of the drill rods at the push of a button.



OPEN PATH EVEN IN TIGHT SPOTS

Application

Thanks to its small footprint and limited weight, the compact and very manoeuvrable GRUNDODRILL^{4X} is particularly useful in confined spaces and poorly accessible terrains.

■ UNDERCROSSINGS

Directional drilling beneath roads, railway tracks and buildings.

■ PARALLEL BORES

Linear bores paralleling roads, water bodies and buildings.

■ FLAT BORING

Drilling close to the surface without elaborate excavation works.

■ PROPERTY SERVICE CONNECTIONS

For gas, water, electricity, sewerage, telecommunication, FTTH.



Drill rig and mixing system can be transported by pickup and trailer.
Transportation: ■ Very easy ■ With the smallest machine ■ With minimal effort



WELL-PLANNED EQUIPMENT DOES HALF THE JOB



Accessories

STANDARD DRILL TECHNIQUE



Rods D48 mm



Medium Soil Reamer



Cone Reamer



GRUNDOREAM

MIXING SYSTEMS



Bentonite mixing system: Type MA09-60

External drive with hydraulic power unit, Type TTM

9.11 kW driving power

Floor space (L x W x H): 1,400 x 1,380 x 2,055 mm



Bentonite mixing system: Type MA04

Integrated drive with Hatz diesel motor,

7 kW driving power

Floor space (L x W x H): 1,824 x 1,168 x 1,143 mm

ACHIEVEMENT-ORIENTED

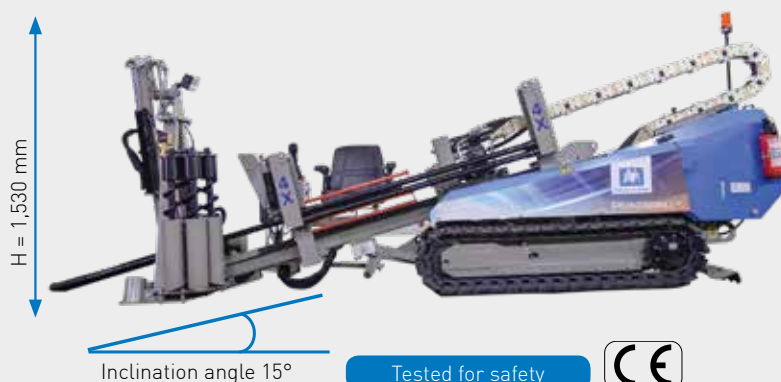
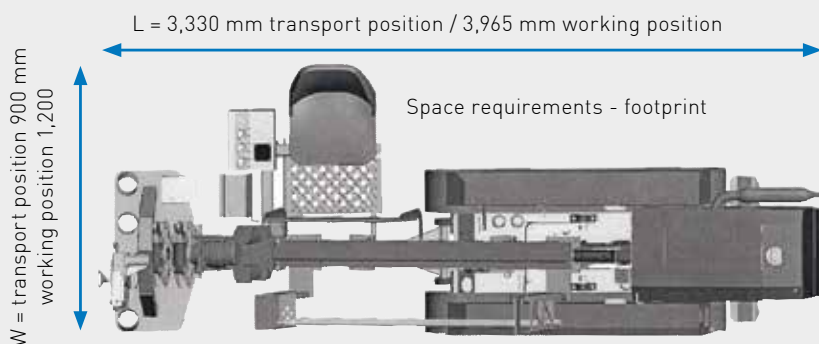
Technical specifications

Model

GRUNDODRILL^{4X}

Basic equipment

- Kubota diesel engine with 28 kW driving power
- Control station with easy to survey control panel
- 1 multifunctional joystick
- Hydraulic anchoring bore unit swivable to three positions
- Remote control
- Drill rod magazine with 32 drill rods for 48 m
- stabiliser, rubberised steel track undercarriage
- Rack and pinion feed drive





Performance data

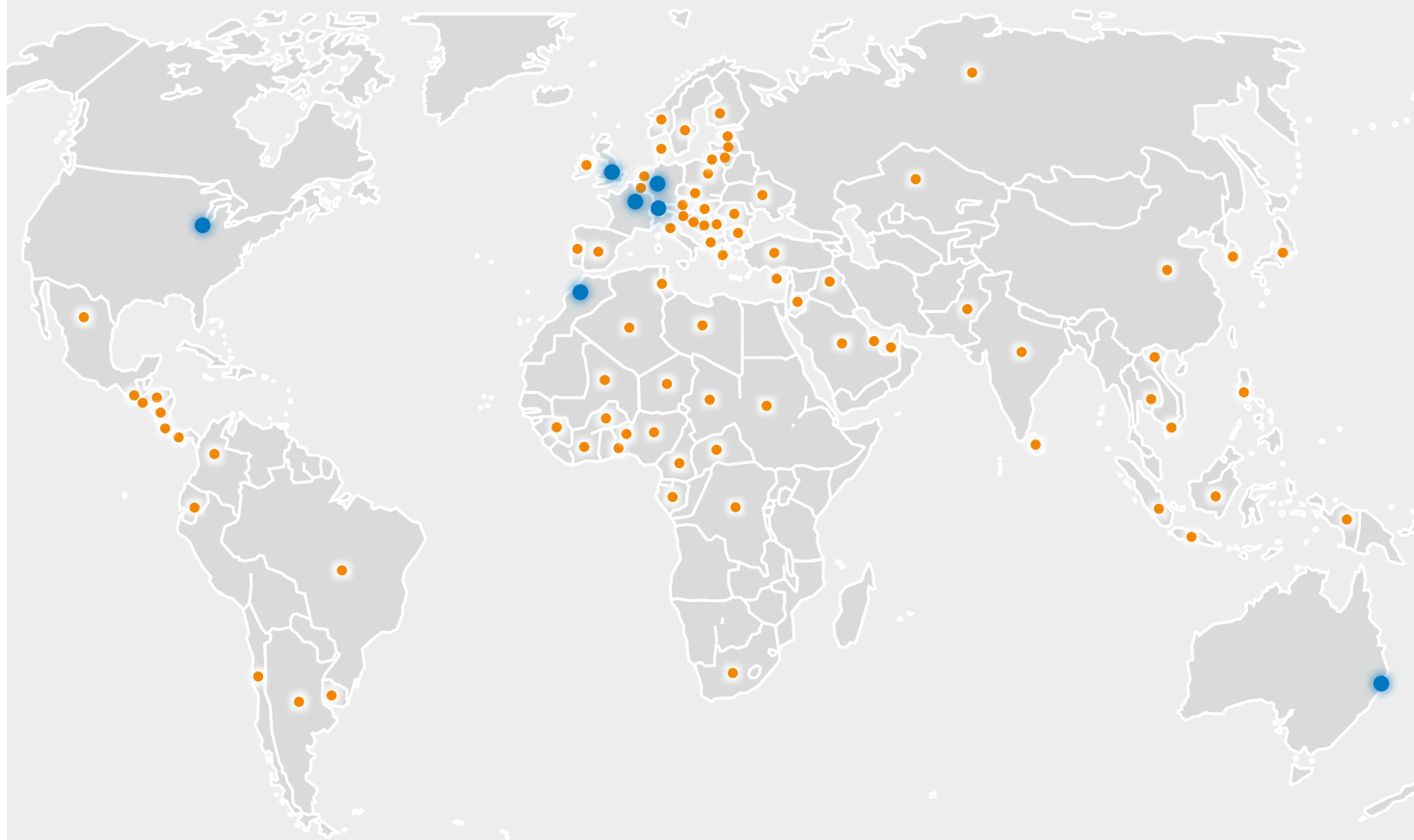
Drill rod type: 4X

L x W x H (Working position) [mm]	3,965 x 1,200 x 1,530
Weight incl. rods [kg]	2,140
Rod magazine capacity [m]	48
Inclination angle	15°
Thrust and pullback force [kN]	43
Max. torque [Nm]	1,300
Max. spindle rotation [rpm]	230
Pilot bore Ø [mm]	80
Drill rod Ø [mm]	48/38
Effective rod length [mm]	1,500
Rod weight [kg]	9
Upsizing Ø* [mm]	≤ 250
Pipe OD* [mm]	≤ 160
Bore length* [m]	≤ 100
Min. bore radius [m]	25
Max. driving speed [km/h] two-step	2
Fresh water tank [l]	-
Sound pressure level L_{PA} [dB(A)]	82,5
Max. engine output [kW]	28
Diesel tank [l]	42

* depending on soil type

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