

GRUNDODRILL 4X

SMART MOBILE



FLUID-ASSISTED HDD RIG



trenchless technology – simple & easy

COMPACT CLASS

Consumes little, achieves a lot

ROTARY DRIVE



Compact high-performance rotary drive with rack and pinion.

CONTROL STATION



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

CABLE-BASED REMOTE CONTROL



For simple and safe driving and positioning.

SMART VICE SYSTEM



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



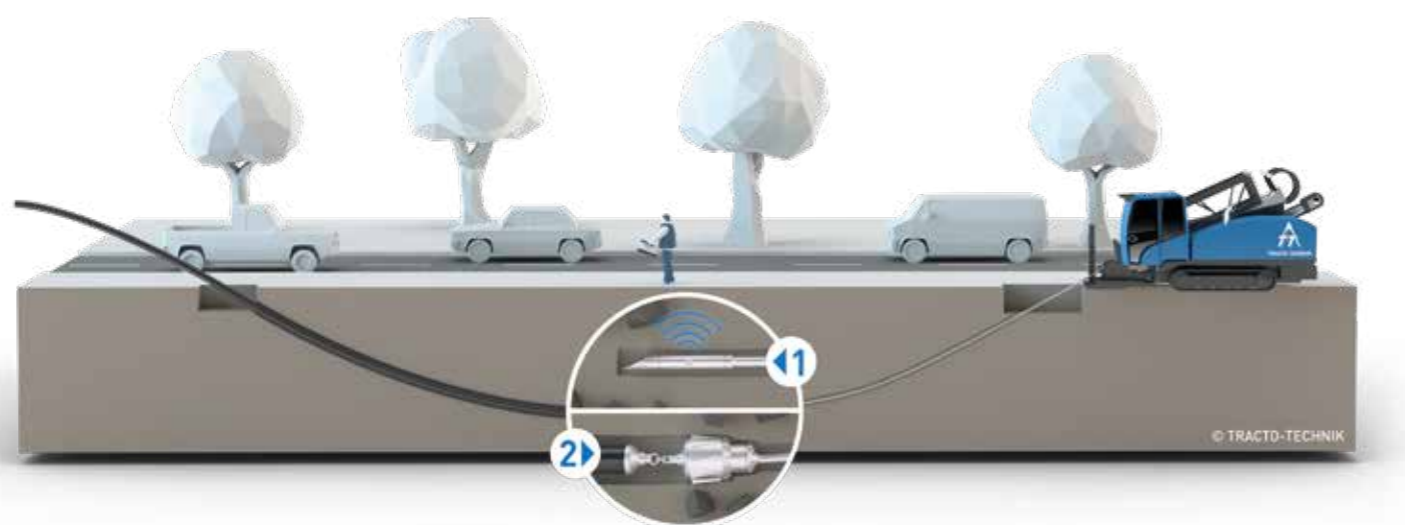
- 01 Hydraulic rod clamp
- 02 Hydraulic anchor drilling system for stability while drilling
- 03 Rod magazine for 48m of drill rods (32 rods)
- 04 High-capacity rotary drive with 1,300 Nm and 230 rpm
- 05 Kubota diesel motor with 28 kW driving power
- 06 Stabilisers - maximal self-support, variable inclination of the cradle for an optimal penetration angle
- 07 Rubberised steel track undercarriage - extreme off-road performance and stabilit

Compact design for working in the most confined spaces

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.

Drilling unit and mixing plant can be transported with an upgraded pickup dropside or 7.5 t truck inc. trailer.

TRANSPORT

- Very simple
- With the smallest machine
- With minimal effort

WELL-PLANNED EQUIPMENT DOES HALF THE JOB

ACCESSORIES

Drilling tools perfectly tailored to the drilling unit guarantee optimum drilling progress in any type of ground. All parts are tough and durable as a matter of course.

STANDARD DRILL TECHNIQUE



Transmitter housing with bore head



Medium Soil Reamer



Cone Reamer



GRUNDODREAM

MIXING SYSTEMS



BENTONITE MIXING SYSTEM: TYPE MA09-60

External drive with hydraulic power unit,
Type TTM 9, 9.6 kW driving power
Floor space (L x W x H):
Mixing plant: 1,450 x 1,400 x 2,050 mm
Hydraulic power unit: 1,320 x 650 x 990 mm



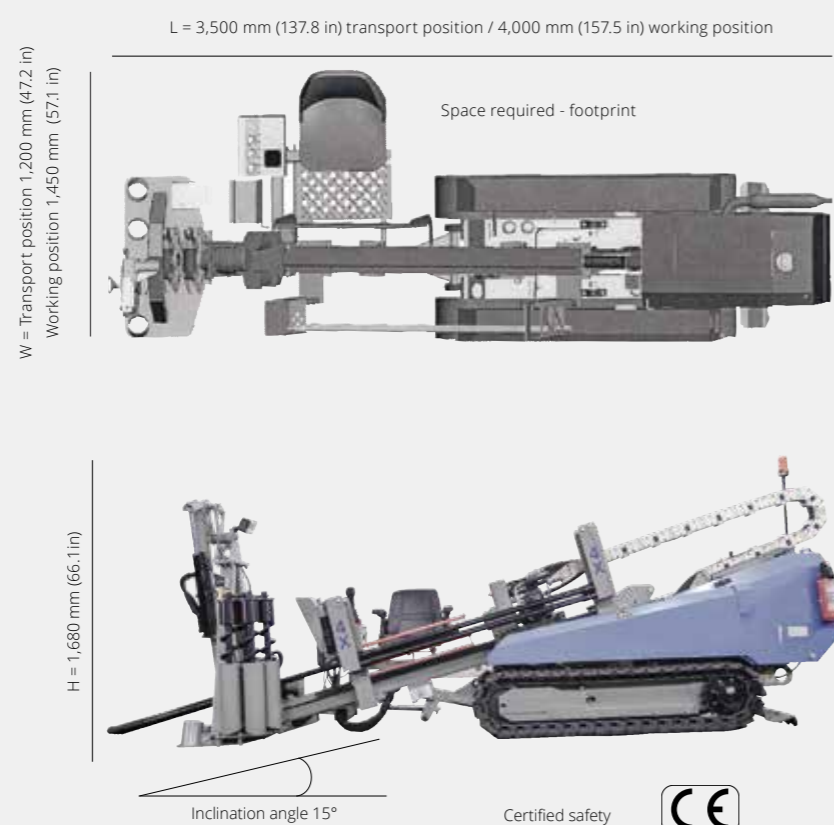
BENTONITE MIXING SYSTEM: TYPE MA04

Integrated drive with Hatz diesel motor,
5 kW driving power
Floor space (L x W x H): 1,900 x 1,350 x 1,150 mm



TECHNICAL SPECIFICATIONS

GRUNDODRILL 4X



Changes possible

BASIC EQUIPMENT

- Kubota diesel engine with 28 kW driving power
- Control station with easy to survey control panel
- 1 multifunction joystick
- Smart Vice - automatic clamp/release for drill rods
- Hydraulic anchoring bore unit to swivable to four positions
- Remote control
- Drill rod magazine with 48 m of drill rods
- Stabiliser, rubberised steel track undercarriage
- Rack and pinion feed drive

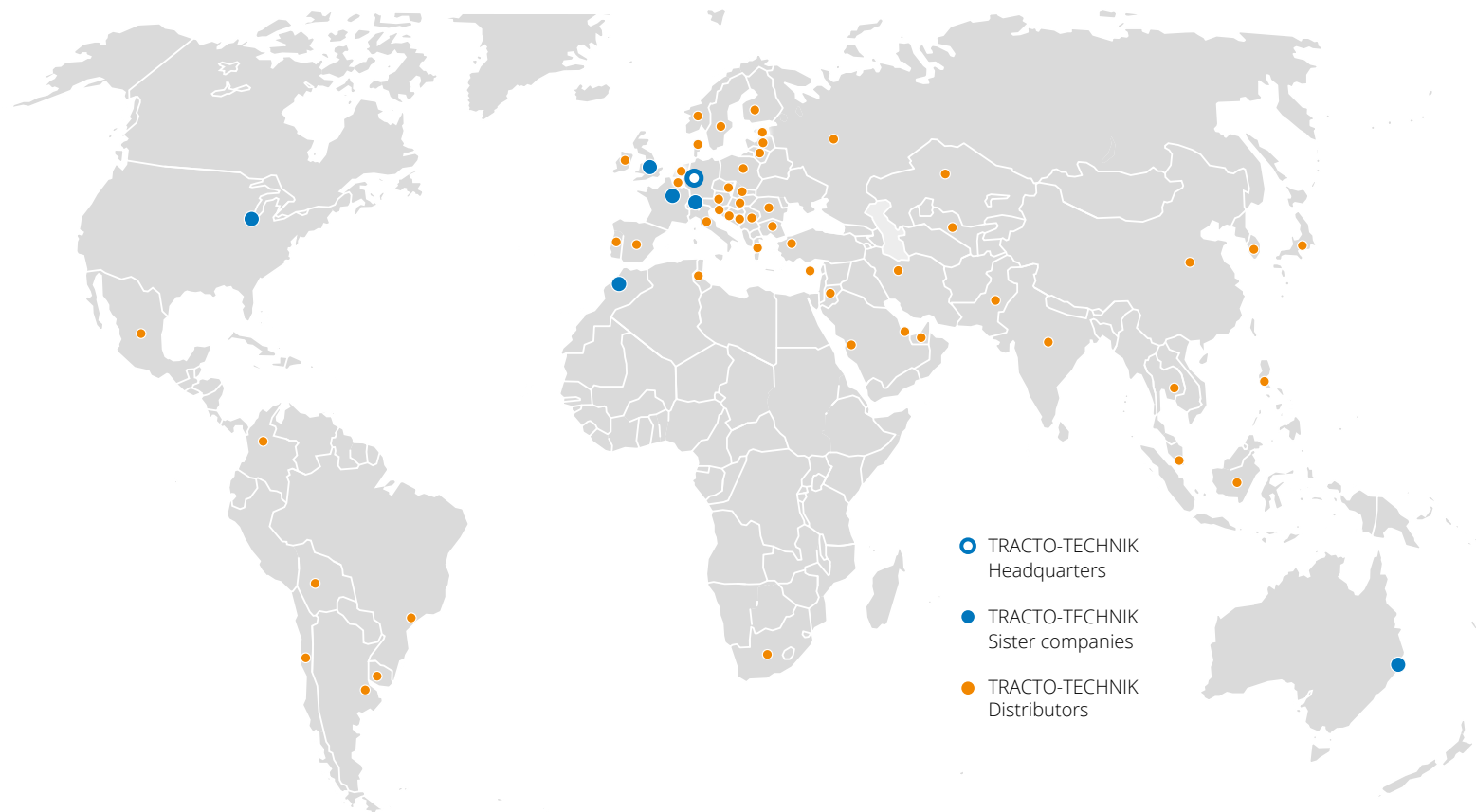
PERFORMANCE DATA

	DRILL ROD TT 2 METRIC	DRILL ROD TT 2 IMPERIAL
L x W x H (transport position)	3.500 x 1.200 x 1.760 mm	137.8 x 47.2 x 69.3 in
L x W x H (working position)	4.000 x 1.450 x 1.680 mm	157.5 x 57.1 x 66.1 in
Max. weight incl. rods	2.160 kg	4,762 lbs
Rod magazine contents	48 m	157 ft
Number of rods	32 pcs	32 pcs
Inclination angle	15°	15°
Thrust and pullback force	43 kN	9.67 lbf
Max. feed rate (without load)	32,3 m/min	106 ft/min
Max. torque	1.300 Nm	959 lbf ft
Max. spindle speed	230 rpm	230 rpm
Pilot bore Ø	80 mm	3.15 in
Drill rods Ø	48/38 mm	1.89/1.50 in
Effective rod length	1.500 mm	59 in
Drill rod weight	9 kg	19.84 lbs
Upsizing Ø*	≤ 250 mm	≤ 9.84 in
Outer pipe Ø*	≤ 160 mm	≤ 6.30 in
Bore length*	≤ 100 m	≤ 328 ft
Min. bore radius	25 m	82 ft
Max. driving speed, 2 stages	2 km/h	1.2 miles/h
Sound pressure level L_{PA}	83,5 dB(A)	83.5 dB(A)
Sound power level L_{WA}	103 dB(A)	103 dB(A)
Engine manufacturer	Kubota	Kubota
Engine model	V 1505	V 1505
Emissions standard	3A / T4	3A / T4
Max. engine output	28,5 kW	38.8 hp
Diesel tank	42 l	11.1 gallons

*depending on ground

Changes possible

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