

GRUNDODRILL^{18ACS} HDD Rock drill rig





IDEAL POWER RATIO



Drive slide with rack and pinion:

- Stepless adjustment of torque and revolution speed for optimal power transmission.
- Best possible adaptation to demands and soil conditions.

RODS FOR EVERY PURPOSE



- Rods TD73 and TD82 for fluid-assisted drilling.
- Twin-tube rods Elicon 95 for rock drilling.
- Quick conversion from fluid-assisted to rock drilling.





LIGHTNING-FAST ROD EXCHANGE

- The fully automatic system ensures short idle times and an equal wear of all rods in the magazine.
- The crane on board facilitates simple handling of the rods, stacking boxes and add-on parts.

CABLE-GUIDED DRILLING

■ The GRUNDODRILL^{18ACS} has the option to be converted for cable-guided bores when drilling in challenging terrain and at great depths (picture on the left).

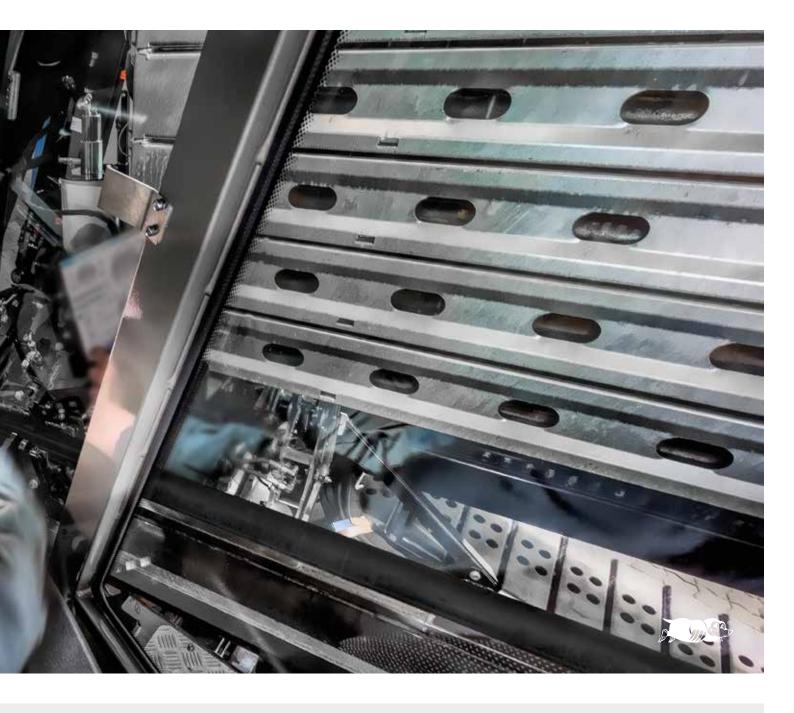




OPTIMAL OPERATOR'S POSITION

The glazing configuration of the operator's cabin offers a panoramic view of the surroundings. The operating elements are clearly arranged and all functions and drilling parameters can be controlled without a problem via interactive control.

- Control panel Industrial computer with internet access
- High-resolution colour screen
- Data log acc. to the latest standards, printing via PC, USB port
- Recording of the complete drilling course data
- Remote diagnosis with telemetry data transfer
- Semi-automatic with drill rod pull-in
- Fully automatic with automatic paddle mode (option)





All functions are controlled at the push of a button with two multifunctional joysticks.

CUSTOMISED ERGONOMICS

The comfortable seat is spring-mounted and can be adjusted individually.





























Application

All GRUNDODRILL rigs are designed for a wide range of applications; a long service life, minimal wear, minimal downtime and low consumption of resources and fuels – making them particularly flexible and economic – from the first day onwards.

ROCK BORES

The GRUNDODRILL^{18ACS} is perfectly capable of drilling in all tough geological conditions, especially in firm rocky formations. For these specialised operations, the Elicon 95 twin-tube rods and the Rock-breaker with roller bits or PDC take on the job.

UNDERCROSSINGS

Directional drilling beneath roads, railway tracks and buildings are all standard applications with GRUNDODRILL.

LONGITUDINAL BORES

Not only undercrossings, but also linear drilling operations which take a parallel course to roads, water bodies and buildings, are also routine applications.

CABLE-GUIDED DRILLING

When detection of the bore is especially demanding, cable guided drilling is applied, e.g. for deep boreholes, crossings underneath water bodies or railway tracks or when interferences occur.

The fluid-assisted HDD method

PILOT BORE*



Implementing of the planned bore path:

- Linear bores: pushing and rotation of the bore head.
- Curved bores: pushing of the aligned bore head, supported by paddle mode/impact unit if required.

UPSIZING & PIPE PULLING*



Installation of the product/protection pipe:

 Reverse pulling of the backreamer with pipe attached, intermediate upsizing may be necessary.

^{*} Depending on soil grade and required upsizing diameter special drilling tools are used.



Accessories

Drilling tools, perfectly adapted to the drill rig, guarantee optimal drilling progress through every type of soil. Robustness and durability of all parts are guaranteed.

STANDARD DRILLING TECHNIQUE



TD73 and TD82 rods



Medium Soil Reamer



Cone Reamer



GRUNDOREAM

ROCK DRILLING TECHNIQUE



ELICON 95 Twin-tube rods



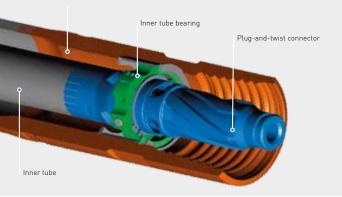
Hard Soil Reamer



Hard Soil Rockreamer



Holeopener



ELICON 95 TWIN-TUBE RODS

The inner tube, is bedded inside the outer tube by means of wear elements. The inner tubes are simply, quickly and securely connected using plug-and-twist connectors.



A first-class drilling fluid technique is an important component for successful drilling. In combination with the drill rig and drilling tools, the drilling fluid technique of TT provides a coherent package for efficient job completion – even in complex and alternating soils.

Powerful mixing systems and pumps guarantee high drilling fluid performance. Professional measuring units and drilling fluid additives are available to ensure a drilling fluid quality that is well adapted to the soil.

For more information on this important topic, visit our website for more information on in-house training courses or ask for detailed information on mixing systems and truck platforms.



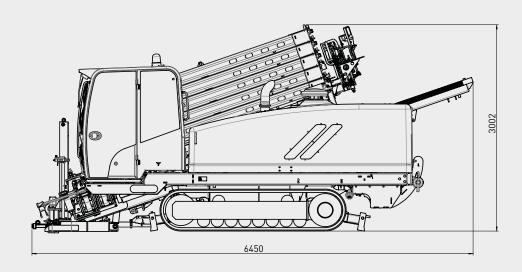
Mixing system MA07

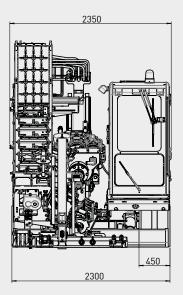


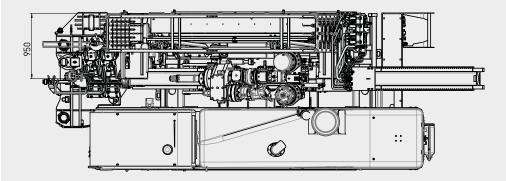
Mixing system MA010

TECHNICAL DATA GRUNDODRILL^{18ACS}

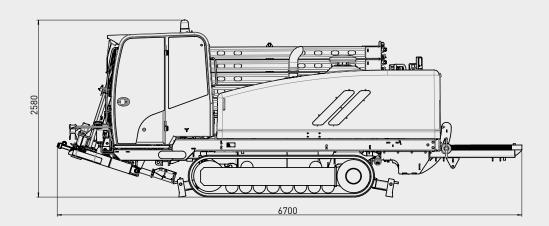
WORKING POSITION







TRANSPORT POSITION



TECHNICAL DATA



Model	GRUNDODRILL ^{18ACS}
	CHOINDOBHIEL
Basic equipment	Cummins diesel engine EPA T 4i resp. EU Step 3b for driving and drilling, 126 kW
	Drill rig with rubberised steel track undercarriage, stabilisers
	Spacious cabin, comfortable seat, joysticks, graphic display
	■ Bore automatics
	Semi-automatic rod changing system
	Semi-automatic clamp and break-away facility
	Anchoring system with Bentonite collecting tray
	High-performance Bentonite HP pump on board the rig
	Drilling data logging – data transfer
	■ High pressure cleaner
	Optional: fully automatic system, wireless remote control, air
	conditioning, drill rod type TD73 or TD82

Performance data	Drill rod type: Elicon 95 (rock)	Drill rod type: TD73 · TD82
L x W x H [mm]	6.700 x 2.300 x 2.570	6.700 x 2.300 x 2.570
Weight incl. rods [kg]	15.200	14.350
Rod magazine capacity [m]	120	225 · 210
Inclination angle	0°-30°	0°-30°
Thrust and pullback force [kN]	180	180 · 200
Max. torque (outer tubes) [Nm]	7.500	7.500 · 10.000
Max. torque (inner tubes) [Nm]	2.500	-
Max. spindle speed (outer tubes) [rpm]	200	200
Max. spindle speed (inner tubes) [rpm]	350	-
Pilot bore Ø [mm]	165	115 - 140/170
Drill rod Ø [mm]	95	73/63 · 82
Effective rod length [mm]	3.000	3.000
Rod weight [kg]	80	42 · 46
Upsizing Ø* [mm]	≤ 600	≤ 600
Outer pipe-Ø* [mm]	≤ 500	≤ 500
Bore length* [m]	≤ 400	≤ 400
Min. bore radius [m]	55	55 · 75
Max. driving speed [km/h] 2stage	3,3/5	3,3/5
Fresh water tank [l]	130	130
Sound pressure level L _{PA} [dB(A)]	64.9	64.9
Sound power level L _{WA} [dB(A)]	96	96
Max. Engine output [kW]	126	126
HP Bentonite pump [l/min]	320 (400)	320 (400)

^{*} depending on soil conditions

13





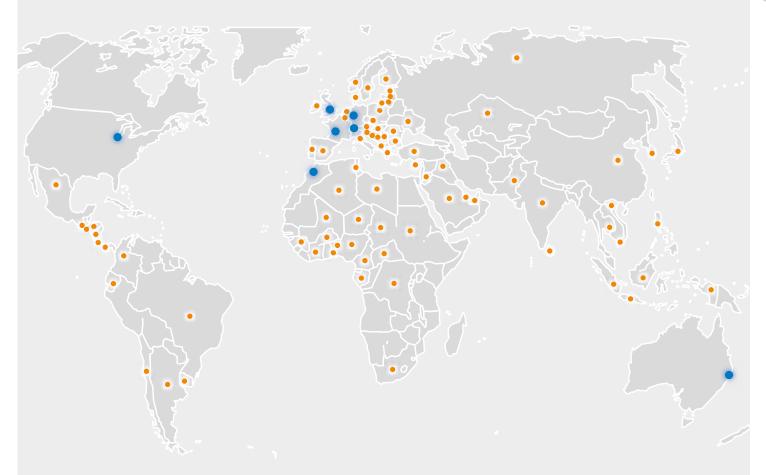
Everything is on board: truck platform for mixing systems, drive and accessories.



Stacking boxes for the ELICON 95 double pipe rods.

TRACTO-TECHNIK

worldwide





Germany TRACTO-TECHNIK GmbH & Co. KG TT Headquarters

Paul-Schmidt-Straße 2 57368 Lennestadt · Germany Tel: +49 2723 808-0 · Fax: -180 export@tracto-technik.de www.TRACTO-TECHNIK.com

Switzerland

TRACTO-TECHNIK Schweiz AG

Tel: +41 79 820 38 97 info@tracto-technik.ch www.TRACTO-TECHNIK.ch

TT TECHNOLOGIES Inc.

Tel: +1 630 851 8200 Fax: +1 630 851 8299 info@tttechnologies.com United Kingdom TT-UK Ltd.

Tel: +44 1234 342566 Fax: +44 1234 352184 info@tt-uk.com www.TT-UK.com

TT ASIA PACIFIC Pty Ltd. Tel: +61 734205455

Fax: +61 734205855 info@tt-asiapacific.com www.TTTECHNOLOGIES.com www.TT-ASIAPACIFIC.com

TRACTO-TECHNIK France

Tél: +33 5 53538983 Fax: +33 5 53093941 info@tracto-technik.fr www.TRACTO-TECHNIK.fr

TRACTO-TECHNIK Afrique

Tel.: +212 537 40 13 63 / 64 Fax: +212 537 40 13 65 info@tracto-technik.ma www.TRACTO-TECHNIK.ma Presented by your TT partner:

