

HDD Pit Launch Machine TERRA-PIT DJ 18

SWISS MADE



TERRA-PIT DJ 18

HDD Pit Launch Machine



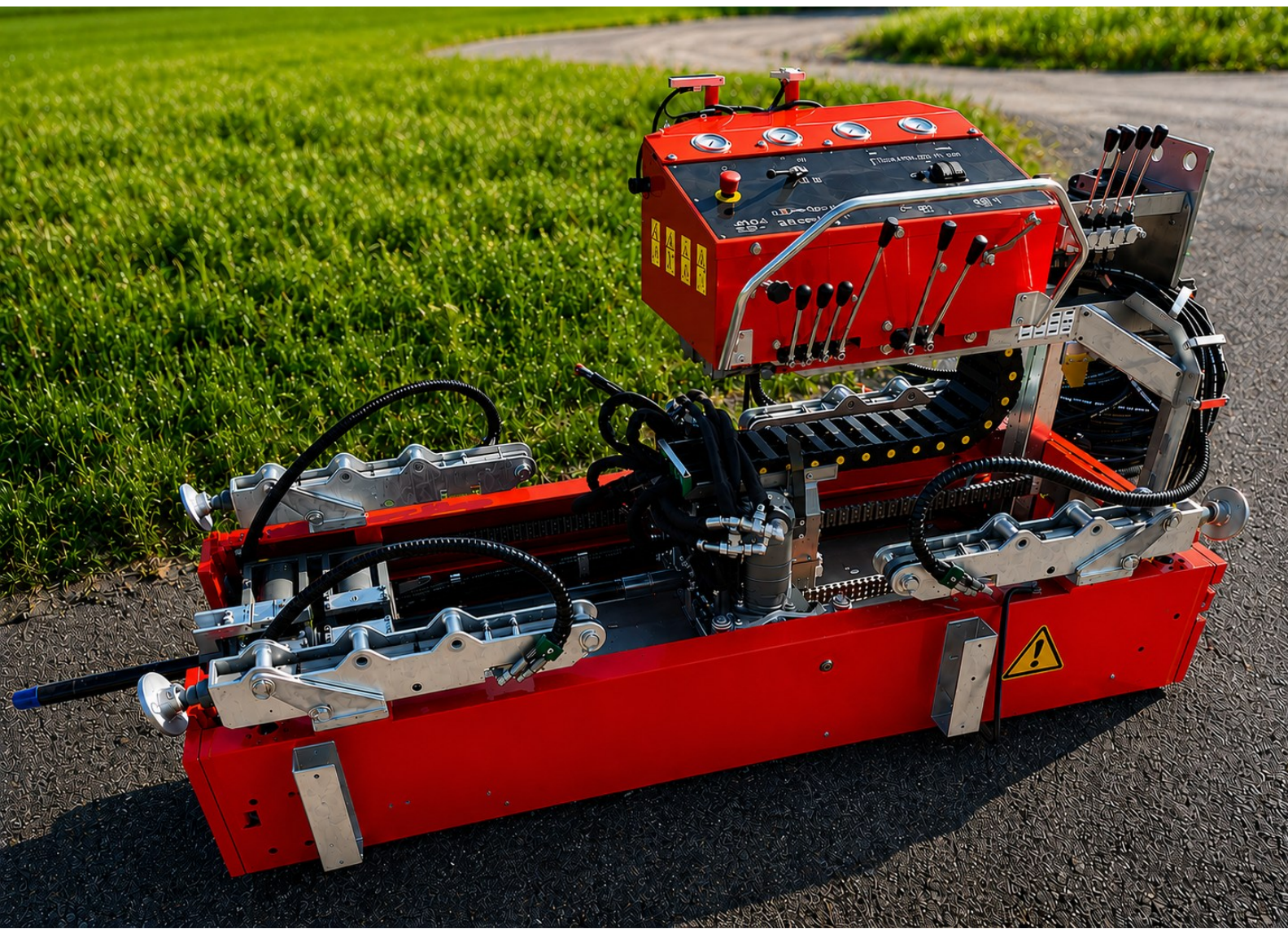
COMPACT, ROBUST, HIGH-PERFORMANCE

The **TERRA-PIT DJ 18** is one of the most powerful and productive compact drilling rigs in its class. Designed for demanding horizontal drilling in confined spaces, it combines maximum performance with compact dimensions and high cost-effectiveness.

Powered by a reliable **75 hp HATZ diesel engine**, the **DJ 18 PIT** generates a thrust and pullback force of up to **80 kN (8 t)** and a rotational torque of **3,000 Nm**. With a flow rate of **95 l/min** and a maximum pressure of 70 bar, boreholes with diameters of up to 420 mm and lengths of up to 150 m can be drilled, depending on ground conditions.

AVAILABLE IN SHORT AND LONG VERSIONS

The machine is available in a short version (L=2.0 m) and a long version (L=2.5 m). With a width of just 0.9 m, it fits even into compact pits. With its reduced noise level and lower diesel consumption, the machine is ideal for urban areas with limited space. The machine also has a small carbon footprint and a quick installation time.



TERRA-PIT DJ 18

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PIPE RETRACTION INTO THE PIT

The break-out device can be moved rearwards. This allows the reamer and the new pipe to be pulled into the working pit and dismantled.

SUPPORT STRUTS

Four support struts brace the DJ 18 PIT in the working pit, ensuring a quick installation time.

TERRA-PIT DJ 18

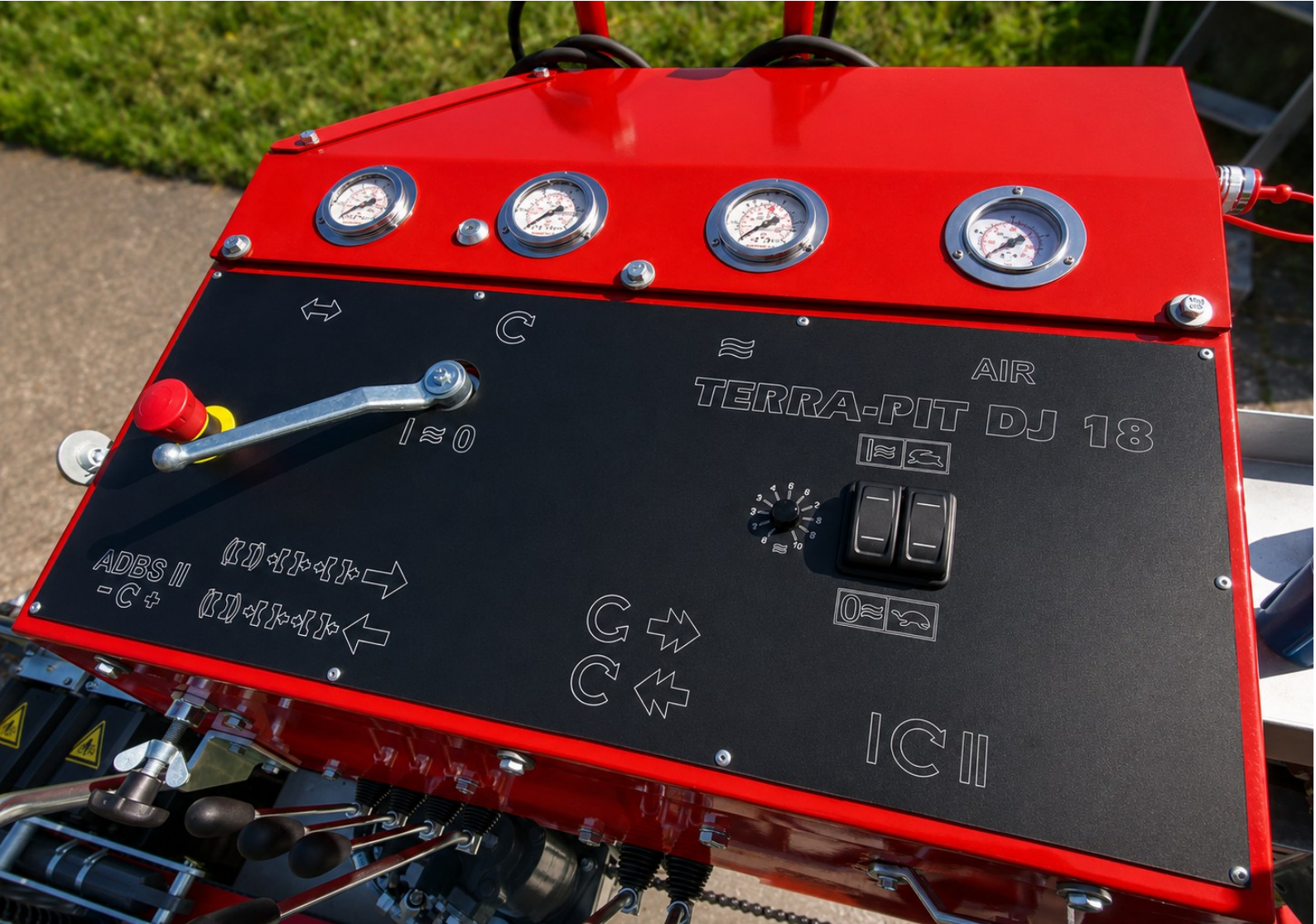
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HIGH-QUALITY DRILL RODS

These high-quality drill rods allow for a minimum bending radius of **31 m**, thereby providing the ideal conditions for precise drilling. The short version uses drill rods 1.0 m in length, whilst the long version is fitted with 1.5 m drill rods.



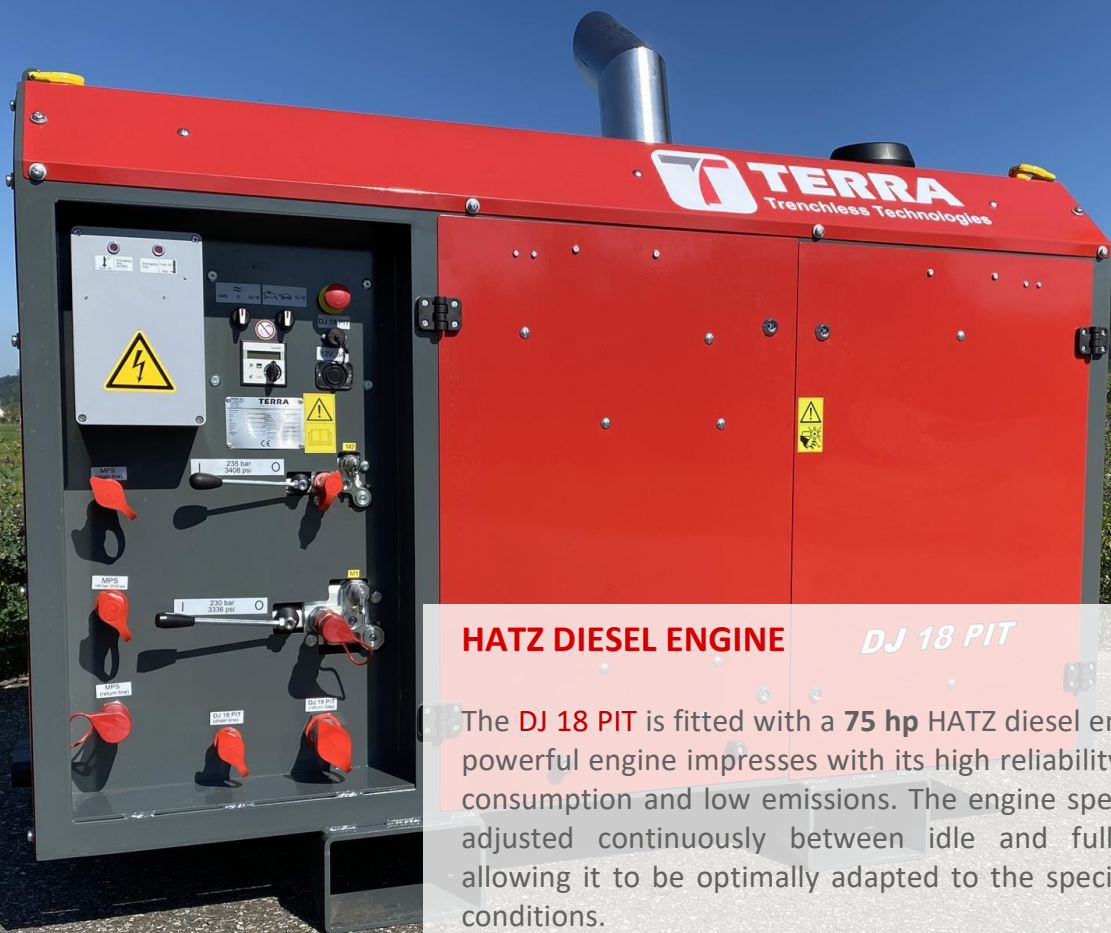


CLEARLY ORGANISED CONTROL PANEL

The ergonomically designed control panel features a clear and well-organised layout of all controls. All functions of the drilling rig are intuitively accessible, enabling convenient and precise machine control.

The integrated electrical control of the flushing fluid is infinitely variable via a potentiometer, allowing the bentonite flow rate and drilling performance to be optimally adapted to the respective ground conditions. A 12-volt connection is integrated as standard for connecting a locating monitor.

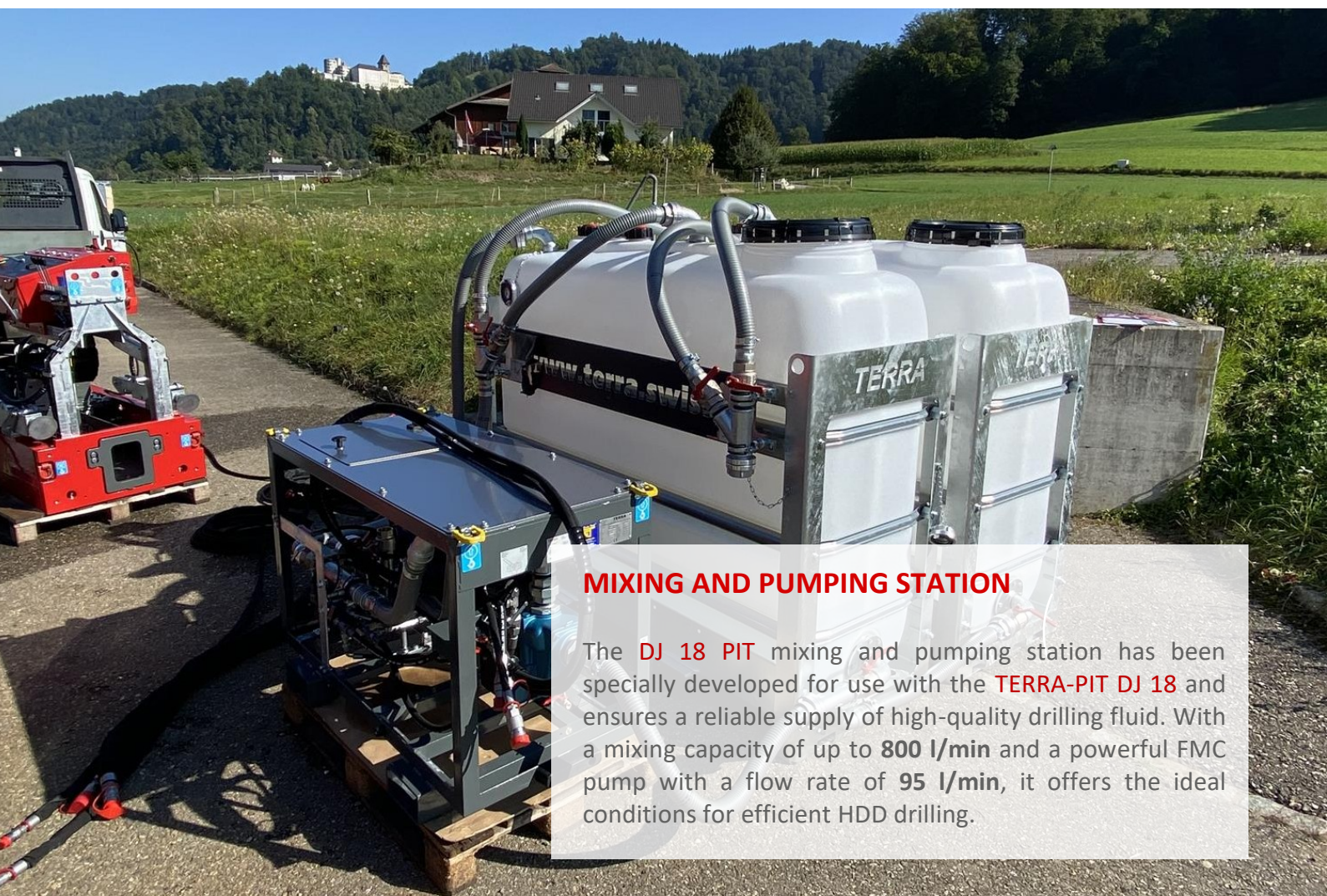
To enhance safety at work, the pit carriage is equipped with an electric shock alarm, including a tester and earthing rod. This ensures that potential hazards from underground power cables are detected at an early stage, thereby increasing safety on the construction site.



HATZ DIESEL ENGINE

DJ 18 PIT

The **DJ 18 PIT** is fitted with a **75 hp** HATZ diesel engine. This powerful engine impresses with its high reliability, low fuel consumption and low emissions. The engine speed can be adjusted continuously between idle and full throttle, allowing it to be optimally adapted to the specific drilling conditions.



MIXING AND PUMPING STATION

The **DJ 18 PIT** mixing and pumping station has been specially developed for use with the **TERRA-PIT DJ 18** and ensures a reliable supply of high-quality drilling fluid. With a mixing capacity of up to **800 l/min** and a powerful FMC pump with a flow rate of **95 l/min**, it offers the ideal conditions for efficient HDD drilling.

TERRA-PIT DJ 18

Technical Specification

	METRISCH	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	80 kN (8 t)	18,000 lbs
Spindle torque	3.000 Nm	2,215 ft.lbs
Spindle speed	135 rpm	135 rpm
Carriage travel speed	18 m/min	59 ft/min
POWER		
Engine	Hatz 3H50TICD	Hatz 3H50TICD
Gross horsepower	55 kW	75 hp
Fuel type	Diesel	Diesel
Engine rpm	2.300 rpm	2,300 rpm
DRILLING FLUID SYSTEM		
Drilling fluid volume	95 l/min	25 gpm
Drilling fluid pressure	70 bar	1,015 psi
Mixing volume	800 l/min	210 gpm
DRILL PIPE		
Length (short / long version)	1.0 m / 1.5 m	3.3 ft / 4.9 ft
Diameter	ø 57/51 mm	ø 2.2"/2.0"
Bending radius	31 m	102 ft
Weight (short / long version)	10 kg / 15 kg	22 lbs / 33 lbs
DIMENSIONS		
Launching cradle (short / long version)	2.0 / 2.5 x 0.9 x 1.3 m	6.5 / 8.2 x 3 x 4.5 ft
Power pack	2.1 x 1.1 x 1.7 m	7.0 x 3.5 x 5.5 ft
Mixing and pumping station	1.5 x 0.8 x 1.0 m	5.0 x 2.5 x 3.5 ft
WEIGHT		
Launching cradle (short / long version)	1.300 kg / 1.400 kg	2,870 lbs / 3,085 lbs
Power pack	850 kg	1,875 lbs
Mixing and pumping station	205 kg	450 lbs

* All data depending on ground conditions. Technical Data may change without prior notice.

TERRA - always one drill ahead!



PREMIUM DRILLING TOOLS

High quality drilling tools and reamers are available for all ground conditions. They are designed and produced inhouse at TERRA to maintain peak performance.



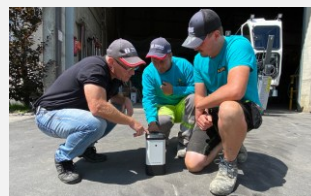
UMAG LOCATING EQUIPMENT

TERRA is an official dealer of Undergronud Magnetics. The locating system are state-of-the-art, helping drilling crews execute their projects with greater control.



MIXING SYSTEMS

The mixing systems from TERRA allow a fast and efficient mixing of the drilling volume. They are quiet, easy to handle and offer a high capacity of your drilling volume.



CUSTOMER SERVICE

Satisfied clients worldwide and a great customer service are the result of our constant progress. The TERRA-JET Directional Drill is a must have for every contractor!