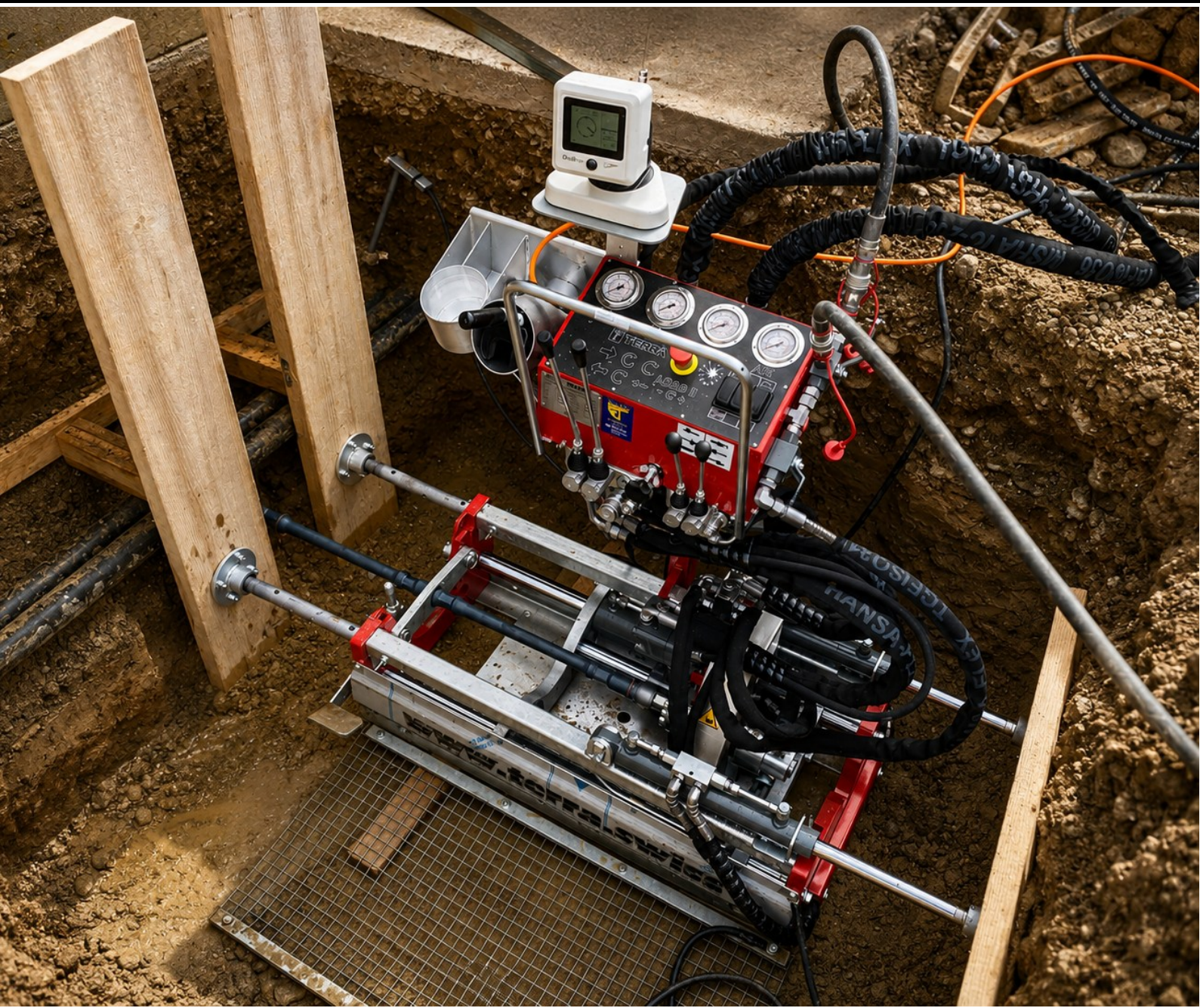


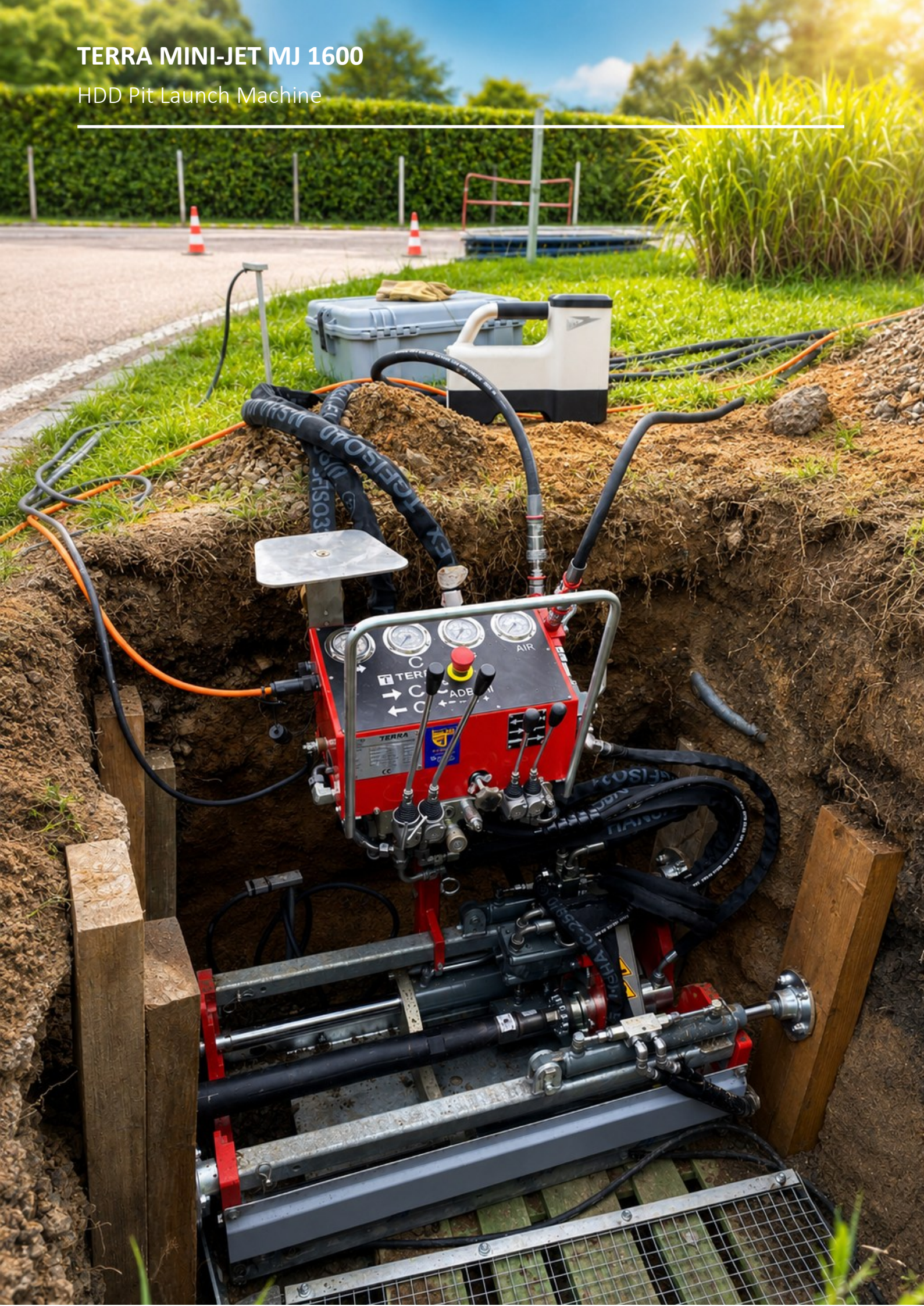
HDD Pit Launch Machine TERRA MINI-JET MJ 1600

SWISS MADE



TERRA MINI-JET MJ 1600

HDD Pit Launch Machine



SMALL, COMPACT, POWERFUL

The **TERRA MINI-JET MJ 1600** compact pit launch machine is one of the most powerful and productive pit launch machines available worldwide today. Equipped with a 57 hp HATZ diesel engine, the MJ 1600 delivers up to **60 kN (6 t) of thrust and pullback** as well as **1,600 Nm of torque**. With a bentonite flow rate of 52 l/min at a maximum flushing pressure of 55 bar, it can create bore channels up to 300 mm in diameter over lengths of up to 50 m. An optional 95 l/min bentonite flow rate is also available. Thanks to its reduced noise level and lower diesel consumption, the machine is ideal for urban areas with limited space. The machine also has a small footprint and a quick setup time.

15 M BENDING RADIUS, PREMIUM DRILL RODS

With the one-piece drill rods (L=0.5 m), which are manufactured from a single billet of high-quality steel, **minimum bending radius of 15 m** can be achieved. There are no critical welds.



TERRA MINI-JET MJ 1600

HDD Pit Launch Machine

VERSATILE APPLICATIONS

The **MINI-JET** represents a modern, efficient, and environmentally friendly method for laying gas, water, and power lines. Whether in urban areas with limited space or in rural regions, the system enables customized solutions for a wide variety of requirements. The trenchless construction method protects surfaces, shortens construction times, and minimizes the impact on residents, traffic, and the environment.



TERRA MINI-JET MJ 1600

HDD Pit Launch Machine

BRACING CYLINDERS

Thanks to its compact design, the MINI-JET fits into a pit that is only 1.3 m long. The machine is easily lowered into the pit using the lifting device and hydraulically secured in place with four clamping cylinders. The built-in check valves ensure that the unit is securely fixed in the pit.

HYDRAULIC CYLINDER (PATENTED)

The carriage is advanced and retracted by a telescoping 4-stage cylinder drive. The robust hydraulic system provides the full driving force of 6 t (60 kN) in both directions of movement. This eliminates the need for a high-wear chain hoist, as is used in many comparable machines.

TERRA MINI-JE MJ 1600

HDD Pit Launch Machine



MIXING AND PUMPING STATION WITH ONE OR TWO 1,100-L TANK

The mixing and pumping station supplies the pit launch machine with drilling fluid quickly and reliably. A total of 52 l/min is available to the drilling rig, with an optional capacity of up to 95 l/min. The high-performance mixing pump circulates the drilling fluid in the 1,100-liter tank, while the high-pressure pump reliably delivers it to the drill head of the TERRA pit launch machine. A second 1,100-liter fresh water tank can be added as an option.

Thanks to their compact design, the mixing pump stations can be transported and installed on a truck in a space-saving manner. The tank can also be lifted using a forklift or, via four upper lifting points, by an excavator or crane.



HATZ 57 HP DIESEL GENERATOR

The Hatz diesel generator with **57 hp (42 kW)** is the heart of the system and reliably supplies power to both the pit carriage and the mixing pump station. Thanks to its robust design and high power reserve, it ensures trouble-free operation even under demanding construction site conditions. The combination of cost-effectiveness, durability, and high operational reliability makes the generator the ideal power unit for demanding horizontal drilling operations.

TERRA MINI-JET MJ 1600

Technical Specification

	METRIC	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	60 kN (6 t)	13,000 lbs
Spindle torque	1.600 Nm	1,180 ft.lbs
Spindle speed	150 rpm	150 rpm
Carriage travel speed	14 m/min	46 ft/min
POWER		
Engine	Hatz 3H50TICD	Hatz 3H50TICD
Gross horsepower	42 kW	57 PS
Fuel type	Diesel	Diesel
Engine rpm	2.300 rpm	2,300 rpm
DRILLING FLUID SYSTEM		
Drilling fluid volume	52 l/min	14 gpm
Drilling fluid pressure	55 bar	800 psi
Mixing volume	800 l/min	210 gpm
DRILL PIPE		
Length	0.5 m	1.6 ft
Diameter	ø 40/30 mm	ø 1.6"/1.2"
Bending radius	15 m	49 ft
Weight	3 kg	6.6 lbs
DIMENSIONS		
Launching cradle	1.2 x 0.6 x 1.3 m	4.0 x 2.0 x 4.0 ft
Power pack	1.4 x 0.9 x 1.6 m	4.5 x 3.0 x 5.0 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	390 kg	860 lbs
Power pack	490 kg	1,080 lbs
Mixing and pumping station	210 kg	463 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.



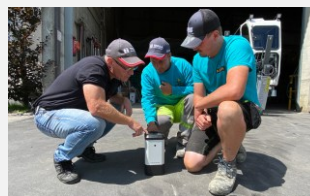
UMAG LOCATING EQUIPMENT

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!