

Fluid management
Mixing system MS 1400e

Swiss made





BENTONITE AND FRESH WATER TANK

The **MS 1400e** has a very compact design. It can be installed easily on a truck without taking too much space. The mixing station can be equipped with one or two tanks. The first tank is for the bentonite. The second tank is for fresh water. TERRA offers 1x or 2x 4,000 l tanks.



ELECTRICAL PUMP

The **MS 1400e** is equipped with an electrical mixing and feeding pump. A special switch allows starting of the electrical engine smooth and silent.

HIGHEST EFFICIENCY AND PERFORMANCE

The **MS 1400e** fluid mixing system is designed to provide highest performance and efficiency at low costs. Powered by a proven mixing pump with special seals for the Bentonite, it offers up to 1.400 l/min of drilling fluid. The **MS 1400e** supports horizontal directional drills of all sizes.

ELECTRICAL DRIVEN PUMP

The **MS 1400e** is electrical driven. The pump requires 10 hp (7.5 kW), 3x 400 V and 15 Hz (14 A). TERRA recommends an external power source with 10-15 kVA. Alternatively, the power connection can be made via a battery container or to the public grid. The electrical pump is quiet and environmentally friendly.

FUNNEL WITH UNDERPRESSURE (VENTURI SYSTEM)

The big funnel with cutting knife makes your HDD live easier on the jobsite. The cutting knife in the funnel opens the Bentonite bags. A 25 kg bag of Bentonite can be placed besides the funnel. Due to the venturi pipe, there is an under pressure in the whole system. The Bentonite is sucked into the mixing unit which provides a reliable mixing.



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Technical Specifications

	METRIC	IMPERIAL (U.S.)
OPERATING		
Pump discharge rate	1400 l/min	370 gpm
Fluid pressure	35 m (3.5 bar)	50 psi
Typical tank mixing time	5 min for 1.000 l	5 min for 528 gal
Drilling fluid tank capacity	4,000 l / 2x 4,000 l	1,056 gal / 2x 1,056 gal
PERFORMANCE ELECTRONICS *		
Rated power	7.5 kW	10 hp
Feed-in	3 x 400 V (AC), 50 Hz	3 x 400 V (AC), 50 Hz
Current	16 A	16 A
External power source	10-15 kVA	10-15 kVA
DIMENSIONS / WEIGHT (EMPTY)		
with 1x 4.000 l Tank	2.5 x 1.9 x 2.1 m	8.2 x 6.2 x 6.9 ft
with 2x 4.000 l Tank	2.5 x 3.0 x 2.1 m	8.2 x 9.8 x 6.9 ft
with 1x 4.000 l Tank	820 kg	1,810 lbs
with 2x 4.000 l Tank	1,370 kg	3,020 lbs

* This applies to Europe. Different voltages and frequencies apply on other continents.
Subject to technical changes.

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!