

Horizontal Directional Drill TERRA-JET DJ 13

Swiss made



TERRA-JET DJ 13

Horizontal Directional Drill

75 HP STRONG HATZ DIESEL ENGINE

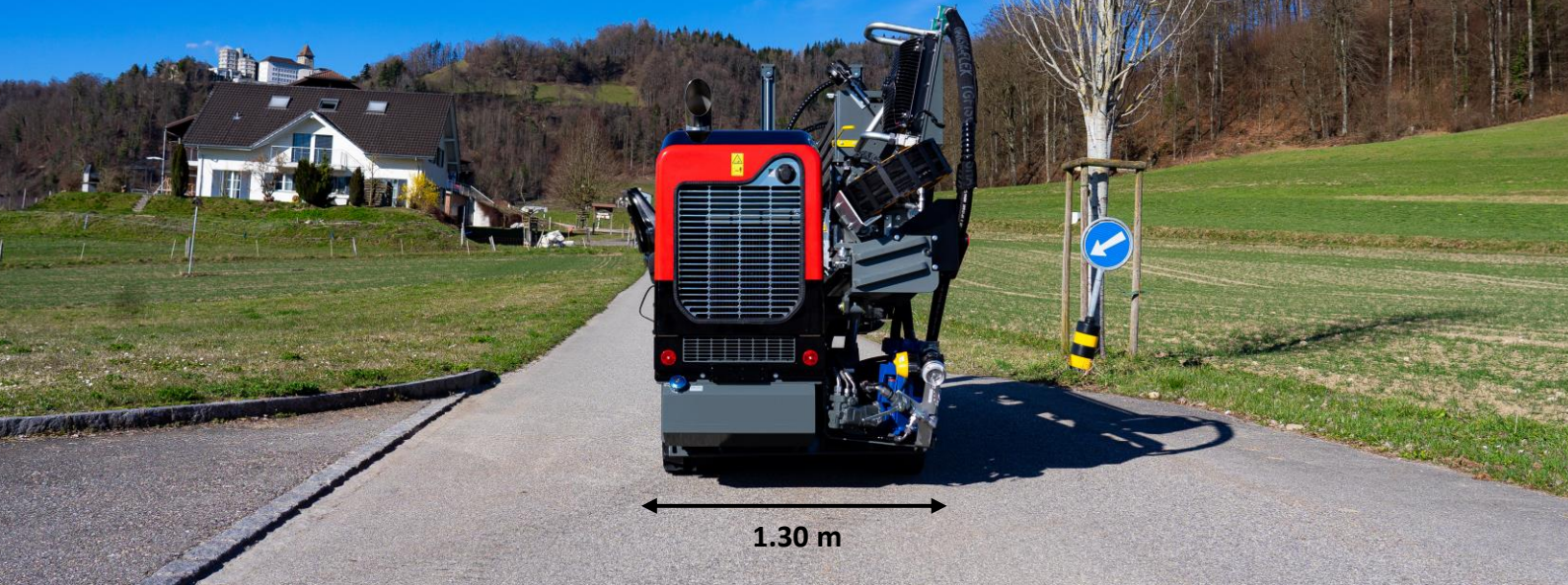
Powered by a proven 75 HP strong HATZ Diesel engine (Stage 5) the **TERRA-JET DJ 13** offers up to **6 tons** of thrust and pullback force, **2'300 Nm** of torque and a maximum spindle speed of **225 rpm**.

The small footprint and the reduced noise level at the operator's ear make the **TERRA-JET DJ 13** user friendly and sustainable. The fast set up time and the increased movability helps you to operate your machine also in urban areas or family's backyard.



SMALL AND COMPACT

With its compact design and increased movability the **DJ 13** can drive through a 1.30 m wide entrance. The machine is steered by a remote control, fast and safely.



INDUSTRY-LEADING 95 L/min OF DRILLING VOLUME

The high-pressure FMC pump is on board. With an increased drilling volume of **95 L/min** contractors can face challenging ground conditions. The **DJ 13** can optionally be equipped by a 160 L/min FMC-pump.



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DOUBLE CYLINDER DRIVE (PATENTED)

Thrust and backreaming of the driving saddle happens by a direct double cylinder drive. This is free of losses, strong and reliable. This new idea from TERRA allows maximum drilling and backreaming forces. The double cylinder operates in both directions with **6 tons**. In the quick gear the driving saddle reaches **40 m/min**.



UNIQUE CONTROL STATION

Ergonomical Operator's Stand



Drill speed control

Automatic drilling at the push of a button



Carve mode

Ideal for hard ground



Thrust Control

Adjustment of speed and thrust force

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HIGH QUALITY DRILL RODS

The drill rods of the **TERRA-JET DJ 13** are 2.0 meters long which means less drill rod changing and faster operation. With a bending radius of 28 m you can easily steer around existing pipes in the ground. The magazine is equipped with 90 m of drill rods.



LED LIGHTS

Integrated LED lights make it easier to work at nightfall or darkness. They illuminate the complete control station and the break-apart system.



OIL COOLER OUTSIDE

The **TERRA-JET DJ 13** has its oil cooler outside behind the drill ramp. Consequently the oil cooler is always surrounded by fresh and cool air. The oil cooler starts with a thermostat by a temperature over 50° C (120° F).

CONNECTION PIT LAUNCH MACHINE

The **DJ 13** is standardly equipped with a connection for the pit launched machine **TERRA MINI-JET**. It simply uses the engine and mixing system of the crawler machine **DJ 13**.



SWINGING DRILL RAMP

TERRA has developed a new swinging drill ramp for the **DJ 13**. It has two rotation points with two cylinders. With this unique system, the drill ramp can move from 18% up to 40% (10° - 22°). The rubber crawler stays at the ground up to 36% for a good stability.

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Technical Specifications

	METRIC	IMPERIAL (U.S.)
Thrust force	60 kN (6 to)	13,000 lbs
Pullback force	60 kN (6 to)	13,000 lbs
DIESEL engine HATZ Stage 5 *	55 kW (75 HP)	55 kW (75 HP)
Spindle torque, max.	2'300 Nm	1,700 ft.lb
Spindle speed, max.	225 rpm	225 rpm
Drilling fluid volume, max. optional	95 L/min (opt. 160 L/min)	25 gpm (40 gpm)
Drilling fluid pressure, max.	75 bar	1,000 psi
Carriage thrust travel speed, quick gear	40 m/min	120 ft/min
Carriage thrust travel speed, at full load	variable	variable
Carriage pullback travel speed, quick gear	40 m/min	120 ft/min
Carriage pullback travel speed, at full load	variable	variable
ø pilot bore	60 – 110 mm	3" – 4.5"
Minimum inclination of the drill ramp	10° (18 %)**	10° (18 %)**
Maximum inclination of the drill ramp	22° (40 %)**	22° (40 %)**
Backreamer diameter, max. **	300 mm	12"
Maximum drilling length **	100 m	330 ft
Drill rods, length	2.00 m	6.6 ft
Drill rods, diameter	ø 50/42 mm	ø 2"/1.7"
Bending radius, min.	28 m	75 ft
Driving speed	2.2 km/h	1.1 miles/h
Operator sound pressure	85 dB (A)	85 dB (A)
Exterior sound power	104 dB (A)	104 dB (A)
Dimension L x W x H (driving position)	4.25 x 1.28 x 2.40 m	14.0 x 4.2 x 7.9 ft
Dimension L x W x H (transportation position)	4.30 x 1.28 x 1.90 m	14.2 x 4.2 x 6.2 ft
Dimension L x W x H (working position)	4.15 x 1.52 x 2.40 m	13.7 x 5.0 x 7.9 ft
Weight including rear blade and 45 drill rods	4'200 kg	9,250 lbs
Weight including rear blade, without drill rods	3'570 kg	7,850 lbs

* Engine Stage 5 with integrated Diesel particulate filter

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

*** At 10-20° (18-36%) the crawler always remains on the ground.

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.



DCI LOCATING EQUIPMENT

TERRA is an official dealer of DCI. With the new Falcon system even challenging ground conditions with high interferences can be successfully done.



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!