TERRA
Trenchless Technologies

Horizontal Directional Drill
TERRA-JET DJ 20

SWISS MADE

TERRA-JET DJ 20

Horizontal Directional Drill

75 HP STRONG HATZ DIESEL ENGINE

The TERRA-JET DJ 20 Horizontal Directional Drill is the perfect choice for those who need power and performance in a compact, user-friendly package. Featuring a **75 HP** HATZ (Euro Stage 5) diesel engine, this powerful machine delivers up to **9 tons** of thrust and pullback force, **2.840 Nm** of torque and a maximum spindle speed of **228 rpm**.

EASY MANEUVERABILITY

Its small footprint ensures **easy maneuverability** when operating in tight spaces, while its low noise levels keep the workplace quiet – making it a great drill to use in both urban and rural jobsites. Its **fast setup time** allows it to be highly productive and easy transportation between job sites.

COMPACT AND POWERFUL

The DJ 20 offers improved maneuverability in tight spaces, with a sleek design designed to fit through entrances as narrow as 1.70 m. Controlled by remote for optimum speed and safety, this machine is ideal for projects that require precise navigation in small areas.

MOVEABLE COMFORT CAB WITH INTEGRATED LED LIGHTS

The TERRA-JET DJ 20 offers the operator complete control and comfort. Its spacious cabin can be **rotated up to 60°** – offering ultimate comfort and convenience throughout your workday. It also incorporates LED lighting so you can keep working even when conditions are darker.

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OIL COOLER OUTSIDE

The TERRA-JET DJ 20 features an innovative external oil cooler design behind the drill ramp. This unique placement ensures that it is constantly surrounded by fresh, cool air and the thermostat activates at temperatures of over 50° C (120° F).

RUBBER TRACKS

Thanks to its rubber tracks, this equipment offers **unyielding stability** and is able to handle the toughest of terrains - no challenge too great for contractors.

UNIQUE OPERATORS PLATFORM

High Visibility Cab

INTELLIGENT DRILLING ASSISTANT SYSTEMS

The **Intelligent Drilling Assistant** systems, like **Thrust Mode**, **Carve Mode** and **Drill Speed Control** ensures an efficient and stress-free drilling process. The advanced **CLP Control System** enables all drilling assistant systems to gain an understanding of their underground environment, ensuring peak productivity and performance.

HIGH QUALITY STANDARDS SWISS MADE

All components of the TERRA-JET fulfill the highest Quality standards in the industry. They are easily accessible. The bearings can be changed quickly on the jobsite. The DJ 20 is equipped with a swing-out cover for easy access for machine maintenance and serviceability. This ensures a long lifetime of your drill rig.

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MADE FOR PRODUCTIVITY

The TERRA-JET DJ 20 provides a swift and efficient performance thanks to the **3 m** drill rods, combined with its **119 m of rod capacity** ensuring uninterrupted operations. Its **34 m** bending radius allows for easy navigation around existing utility infrastructure beneath the surface.

RACK AND PINION DRIVE

An efficient and strong drive system is powered by **two hydraulic motors** with gearboxes, allowing for reliable thrusting from the driving saddle. The pair of rotating motors also generate substantial torque to effectively propel movement forward.

INCREASED FLUID MUD

Swiss Made Quality

HIGH DRILLING VOLUME WITH BOOST MODE (FMC)

The TERRA-JET DJ 20 is equipped with an FMC high-pressure pump with a flow rate of 95 l/min, which delivers the bentonite from the mixing tank through the drill rods to the drill head nozzles at a maximum pressure of 70 bar. The frost protection tank mounted on top prevents internal icing at low temperatures.

TERRA-JET DJ 20

Technical Specifications

	METRIC	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	87 kN (9 t)	20,000 lbs
Spindle torque, max.	2.840 Nm	2,100 ft.lb
Spindle speed, max.	228 rpm	228 rpm
Carriage travel speed, max.	40 m/min	120 ft/min
Bore diameter, min.	60 – 110 mm	3“ – 4.5“
Ground travel speed	4.5 km/h	3 miles/h
POWER		
Engine	HATZ 4H50TICD	HATZ 4H50TICD
Gross horsepower (Tier 4 final)	55 kW	75 HP
Fuel type	Diesel	Diesel
Engine rpm, max.	2.700 rpm	2,700 rpm
DRILLING FLUID SYSTEM (onboard)		
Drilling fluid volume, max.	95 l/min	26 gpm
Drilling fluid pressure, max.	70 bar	1,015 psi
DRILL PIPE		
Drill rod, length	3.05 m	10 ft
Drill rod, diameter	ø 60/54 mm	ø 2.4“/2.1“
Bending radius, min.	34 m	120 ft
Onboard capacity	119 m	400 ft
DIMENSIONS		
Dimension L x W x H (transportation position)	6.00 x 1.65 x 1.90 m	19.5 x 5.5 x 6.3 ft
Drill rack entry angle	16 - 22°	29 – 40 %
Weight (incl. 40x drill rods)	6.4 t	14,100 lbs
Weight (w/o drill rods)	5.3 t	11,500 lbs
NOISE LEVEL		
Operator sound	85 dB (A)	85 dB (A)
Exterior sound power	104 dB (A)	104 dB (A)

* 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.

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!