

TERRA
Trenchless Technologies

Horizontal Directional Drill (e-Line) TERRA-JET DJ 66e

SWISS MADE



TERRA-JET DJ 66e

Horizontal Directional Drill (e-Line)

THE FIRST 30 T FULLY ELECTRIC HORIZONTAL DIRECTIONAL DRILL

Developed based on direct customer feedback, the **DJ 66e** represents the next generation of high-performance electrical horizontal directional drilling technology from TERRA.

Equipped with **fully electric motors**, the **TERRA-JET DJ 66e** delivers up to **300 kN (30 t)** of thrust and pullback force, **12,500 Nm** of rotational torque and a maximum spindle speed of **230 rpm**. All electric motors work at highest efficiency.

This powerful combination ensures **outstanding productivity** for large-scale installation projects—enabling faster, more efficient work with minimal downtime.

In addition, the **DJ 66e** operates quietly and meets the growing demand for **environmentally friendly** and low-noise jobsite solutions.



SUSTAINABLE POWER SUPPLY

The DJ 66e is powered by a **fully electric drive system**. It consists of a rechargeable battery with a capacity of **100 kWh**, multiple onboard chargers and inverters that regulate voltage and current. No fuel is needed. This significantly **reduces CO₂ emissions**.



OSCILLATING DRILL RAMP (PATENTED)

The DJ 66e is equipped with a patented self-aligning drill ramp. It enables ground-breaking entry angles of **19% - 58% (11° - 30°)**. This means that pre-bent pipes can also be pulled in.



TERRA-JET DJ 66e

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EXTERNAL POWER SUPPLY

The DJ 66e can be powered directly from the **public grid**, a **generator**, or a **mobile battery unit**. The integrated power distribution unit requires three phases each 400 V (AC) at 50 Hz and a current of 125 A. All components are earthed via an **integrated safety system**.





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DJ 66e

POWERLOCK SYSTEM

The DJ 66e uses a high-performance **PowerLock connector system** for safe and efficient energy transfer between the external power source and the machine's power distribution unit. This industrial-grade plug-in interface allows for **quick and reliable connection** of high-voltage electrical supply, ensuring minimal setup time and maximum safety.



BROWNLINe GyRO SYSTEM

As an option TERRA offers an **electrical cable drum** for the Brownline Gyro system. This allows drilling with **cable guided steering tools**. The cable is directly connected to the monitor of the cabin for user friendly operation.

TERRA-JET DJ 66e

Technical Specification

	METRIC	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	300 kN (30 t)	66,000 lbs
Spindle torque, max.	12.500 Nm	9,220 ft.lbs
Spindle speed, max.	230 rpm	230 rpm
Carriage travel speed, max.	45 m/min	150 ft/min
Bore diameter, min.	160 mm	6"
Ground travel speed	2.7 km/h	1.7 miles/h
POWER		
Rated power	88 kW	118 hp
On board battery capacity (rechargeable)	100 kWh	100 kWh
External power supply, voltage	3x 400 V (AC), 50 Hz	3x 400 V (AC), 50 Hz
External power supply, current	125 A	125 A
DRILLING FLUID SYSTEM (external)		
Drilling fluid volume, max.	1.000 l/min	265 gpm
Drilling fluid pressure, max.	80 bar	1,150 psi
DRILL PIPE		
Drill rod, length	4.57 m	15 ft
Drill rod, diameter	ø 92/89 mm	ø 3.1"/2.6"
Bend radius, min.	60 m	195 ft
Onboard capacity	146 m	480 ft
DIMENSIONS		
Dimension L x W x H (transportation position)	9.5 x 2.3 x 3.1 m	31 x 7.5 x 10 ft
Drill rack entry angle	11 - 30°	19 - 58 %
Weight (incl. drill rods)	19 t	42,000 lbs
Weight (w/o drill rods)	16 t	35,000 lbs
NOISE LEVEL		
Operator sound	65 dB (A)	65 dB (A)
Exterior sound power	65 dB (A)	65 dB (A)

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

TERRA – we drill the future!



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!