

HDD Rock Drilling Machine TERRA-JET DJ 23 AT

SWISS MADE



TERRA-JET DJ 23 AT

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ROCK DRILLING MADE EASY

With the **TERRA-JET DJ 23 AT**, the Swiss engineers have developed a compact yet powerful rock drilling rig for directional rock drilling up to 100 metres in length. Equipped with a 101 HP strong Deutz diesel engine (Euro Stage 5), the **DJ 23 AT** delivers up to 11 tonnes of pulling and thrust force. The **DJ 23 AT** is equipped with a total of 36x dual rods, resulting in a total length of **103 metres** on board capacity. The bending radius is 44 metres for aggressive steering in the ground.

COMPACT AND POWERFUL

With a width of just **1.80 m**, the **DJ 23 AT** has a compact design and is easy to position and transport on the construction site. This makes the system ideal even in confined spaces.



HYDRAULICALLY ROTATABLE CABIN

The **DJ 23 AT** elevates drilling performance with its hydraulically rotatable cabin, allowing the driller to effortlessly adjust their position from **0°-60°** - making sure they are always in optimal control of each job.



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INTEGRATED CAMERA

Enjoy **unparalleled visibility** with our integrated camera that provides a direct view of the drill rod connector right in your cabin. With images streamed directly to you on its high-definition **12" display**, it's the safest & fastest drill in its class.

DUAL ROD WITH INNER SHAFT

The dual rod of the **DJ 23 AT** consists of an outer rod and an inner shaft. It is centred and guided via a hexagon. For the pilot bore, a roller cutter is installed at the front of the inner. It rotates at a top speed of **330 rpm** and generates a spindle torque of up to **1,100 Nm**. This enables the roller cutter to drill out even difficult soils with ease. During the backreaming process, the roller cutter is uninstalled and the hole opener is mounted on the outer rod. The outer rod reaches a spindle speed of up to **220 rpm**. The carriage enables a maximum torque of **4,000 Nm** for maximum productivity.

RACK AND PINION

Get **reliable** and **powerful performance** with the thrust and pullback of your driving saddle, ensured by a rack and pinion drive. Two hydraulic motors combined with gearboxes move the driving saddle for maximum efficiency. The bent axis variable displacement motor creates high torque (AUTO TORK) that gives you **extra high torque when needed**.

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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 through the 12" **Screen** for onboard diagnostics.

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ROCK DRILLING TOOLS ARE A MATTER OF TRUST

TERRA offers various **rock drilling tools**. For pilot drilling, the inner shaft is connected to the **Rockmaster**. It can be equipped with a **roller cutter** or a **PDC chisel**, depending on the subsoil. Special **hole openers** or conventional **rock reamers** are used for the widening process. This enables efficient working.



HIGH DRILLING VOLUME (FMC)

The **DJ 23 AT** is a powerful rig capable of providing superior drilling performance with **185 l/min** flow rate - ideal for those who need more out of their production and efficiency.



OSCILLATING DRILL RAMP

TERRA has developed a patented oscillating drill ramp for the DJ 23. It has two rotation points with two separate cylinders. With this unique system, the drill ramp can achieve a drilling angle from **19 % up to 40 %** (11° - 22°). The rubber crawler stays firm on the ground up to a gradient of 36%.

TERRA-JET DJ 23 AT

Technical Specifications

	METRIC	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	110 kN (11 tonnes)	23,000 lbs
Spindle torque, outer rod	4,000 Nm	2,950 ft.lbs
Spindle speed, outer rod	220 rpm	220 rpm
Spindle torque, inner shaft	1,100 Nm	810 ft.lbs
Spindle speed, inner shaft	330 rpm	330 rpm
Carriage travel speed, max.	43 m/min	141 ft/min
POWER		
Motor type	Deutz TCD 3.6L4	Deutz TCD 3.6L4
Engine power (EU Stage 5)	75 kW	101 HP
Fuel	Diesel	Diesel
Motor speed	2,400 rpm	2,400 rpm
DRILLING FLUID SYSTEM (on board)		
Drilling fluid volume, max.	185 l/min	50 gpm
Drilling fluid pressure, max.	80 bar	1,160 psi
DRILL PIPE		
Drill rod, length	2.85 m	9.3 ft
Drill rod, diameter	ø 83/57 mm	ø 3.3"/2.3"
Bend radius, min.	44 m (6.4 %)	145 ft
On board capacity	103 m	400 ft
DIMENSIONS		
Dimension L x W x H (transport position)	6.40 x 1.85 x 2.53 m	21,0 x 6,1 x 8,3 ft
Drill rack entry angle	11 - 22°	19 - 40 %
Weight (incl. drill rods)	8.5 t	18,700 lbs
Weight (w/o drill rods)	7.4 t	16,300 lbs
NOISE LEVEL		
Operator sound	75 dB (A)	75 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.



LOCATING EQUIPMENT

TERRA is an official dealer of Underground Magnetics. With the Geo system even challenging drills 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!