

HDD Rock Drilling Machine TERRA-JET DJ 40 AT

SWISS MADE



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ROCK DRILLING MADE EASY

With the **TERRA-JET DJ 40 AT**, Swiss engineers have developed a compact yet powerful rock drilling rig capable of performing drills in hard rock up to **200 m** in length. Equipped with a **189 hp** Perkins Diesel engine (Euro Stage 5), the **DJ 40 AT** delivers up to **18 tonnes** of thrust and pulling force and has a rotational torque of **8,000 Nm**.

MODERN DESIGN

The modern and powerful design of the **DJ 40 AT** impresses both users and clients on site.



OSCILLATING DRILL RAMP (PATENTED)

The **DJ 40 AT** is equipped with a patented oscillating drill ramp. It allows entry angles of **19% - 36%** (11° - 20°). The steel tracks with vulcanised rubber inserts always remain on the ground.



DUAL DRILL RODS

The **DJ 40 AT** is equipped with a total of **32 dual drill rods**, giving a total length of **146 m**. If longer drilling is required, individual rods can be automatically refilled using the reloading system. The bending radius is **52 m**, allowing it to navigate even tight corners.

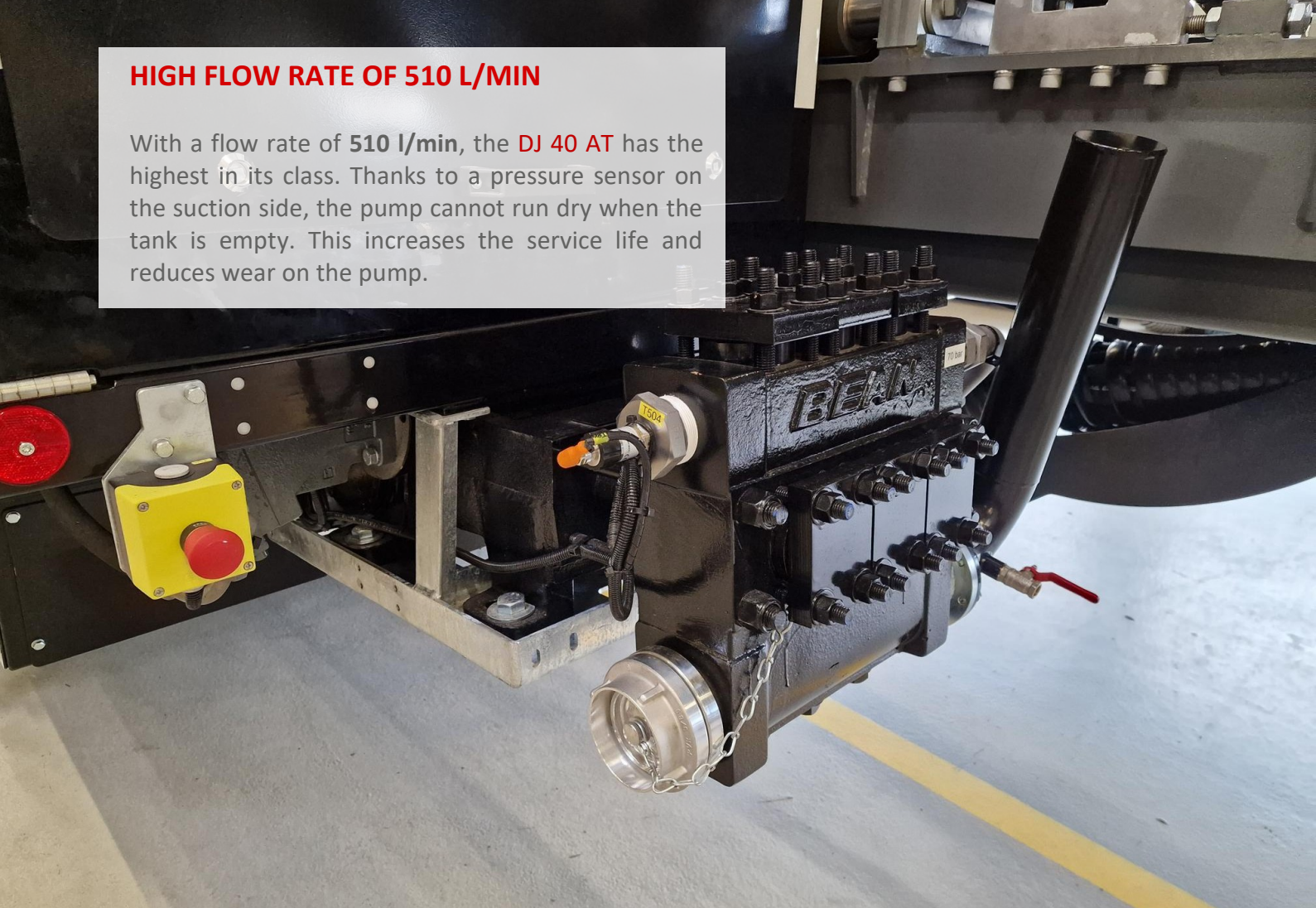
ROBUST RACK AND PINION DRIVE

The **DJ 40 AT** is equipped with two feed motors that transmit a thrust and pullback force of **18 tonnes** via a rack and pinion. The rotary drive carriage has an external torque of **8,000 Nm** and an internal torque of **2,400 Nm**.



HIGH FLOW RATE OF 510 L/MIN

With a flow rate of **510 l/min**, the **DJ 40 AT** has the highest in its class. Thanks to a pressure sensor on the suction side, the pump cannot run dry when the tank is empty. This increases the service life and reduces wear on the pump.



ROCK DRILLING TOOLS ARE A MATTER OF TRUST

TERRA offers a range of rock drilling tools. For pilot bores, the inner shaft is connected to the **Rockmaster**. Depending on the ground conditions, it can be equipped with a **roller bit** or a **PDC bit**.

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HYDRAULICALLY SWIVELLING COMFORT CAB

TERRA offers the largest and most comfortable cab for HDD drilling rigs. The **DJ 40 AT** cabin offers perfect all-round visibility. It is equipped with fully glazed, tinted windows and can be hydraulically swivelled up to **45°**, even when the operator is sitting in the cabin. This allows the drilling supervisor to choose the best seating position for them.



EXCHANGEABLE HALF MAGAZINES

The **DJ 40 AT** can also be optionally equipped with exchangeable half magazines. These can be conveniently replaced on site.



AUTOTORK – MAXIMUM PRODUCTIVITY

The carriage is equipped with an axial piston variable displacement motor, which allows for continuous regulation of torque and speed. This results in maximum productivity.



TERRA-JET DJ 40 AT

Technical data

	METRIC	IMPERIAL (U.S.)
OPERATION		
Thrust/Pullback force	181 kN (18 tonnes)	40,000 lbs
Spindle torque, outer rod	8,000 Nm	5,900 ft.lbs
Spindle speed, outer rod	255 rpm	255 rpm
Spindle torque, inner shaft	2,400 Nm	1,770 ft.lbs
Spindle speed, inner shaft	255 rpm	255 rpm
Carriage travel speed, max.	44 m/min	145 ft/min
POWER		
Motor type	Perkins-904J	Perkins-1204J
Engine power (EU Stage 5)	139 kW	189 HP
Fuel	Diesel	Diesel
Motor speed	1,800 rpm	1,800 rpm
DRILLING FLUID SYSTEM (on board)		
Drilling fluid volume, max.	510 l/min	135 gpm
Drilling fluid pressure, max.	60 bar	870 psi
DRILL PIPE		
Drill rod, length	4.57 m	15 ft
Drill rod, diameter	ø 95/78 mm	ø 3.7"/3.1"
Bend radius, min.	52 m	170 ft
On board capacity	146 m	480 ft
DIMENSIONS		
Dimension L x W x H (transport position)	8.6 x 2.2 x 2.8 m	28.0 x 7.2 x 6.6 ft
Drill rack entry angle	11 - 20°	19 - 36 %
Weight (incl. drill rods)	17 t	37,500 lbs
Weight (w/o drill rods)	14 t	30,800 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.



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!