

HDD Pit Launch Machine
TERRA-PIT DJ 18 + DJ 18L

Swissmade



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COMPACT, POWERFUL, PRODUCTIVE

The **TERRA-PIT DJ 18** is the most powerful and productive HDD pit launch machine that is available on the world market. Powered by a proven 75 HP HATZ Diesel engine the **DJ 18 PIT** offers up to 8 tons of thrust and pullback force and 3.000 Nm of torque. With its 95 ltr/min of drilling volume and a maximum drilling pressure of 70 bar you can backream up to 420 mm over lengths of 150 (depending on ground conditions).

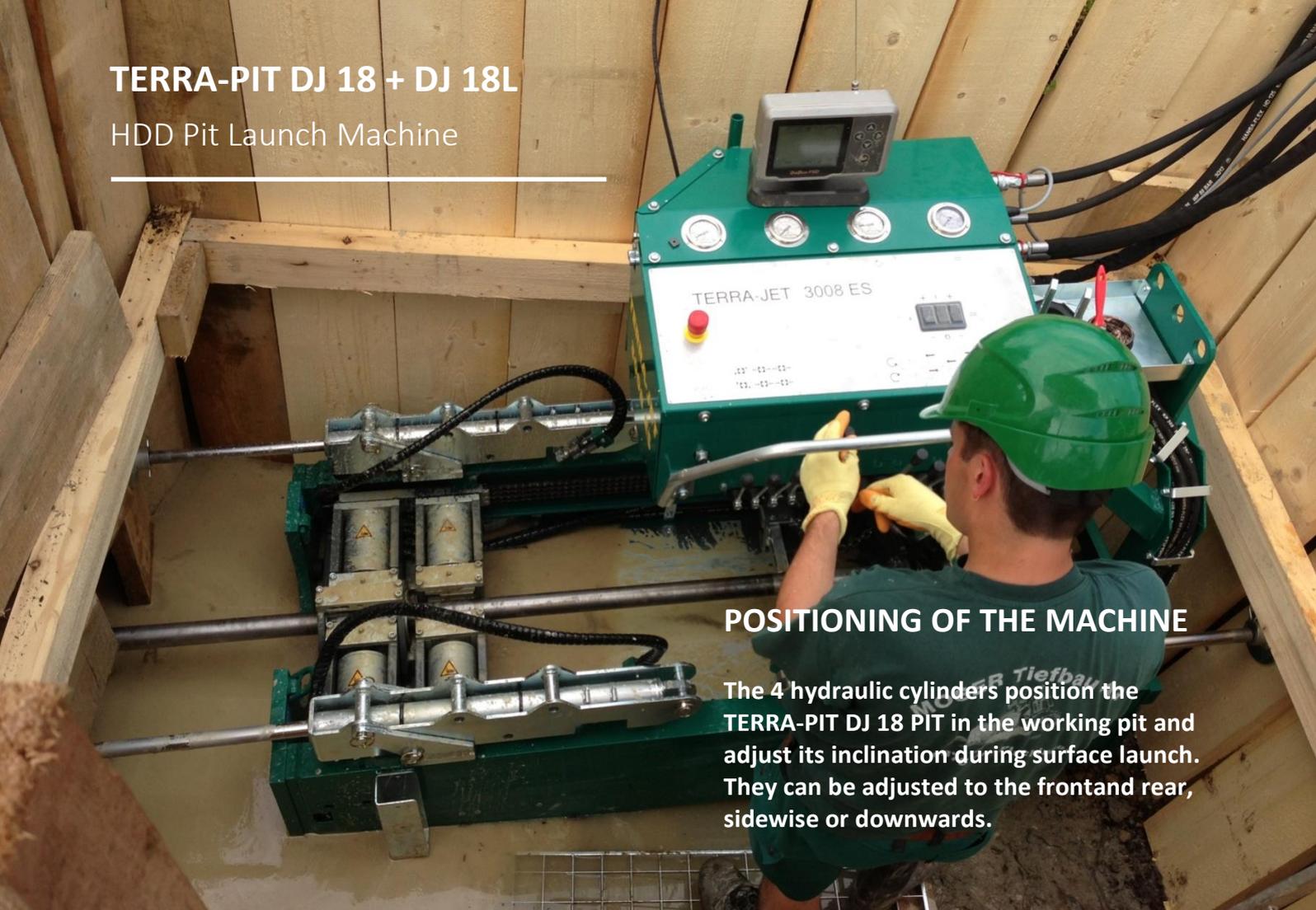
AVAILABLE AS A SHORT AND LONG VERSION

The machine is available as a short version (L=2.0 m) and a long version (L=2.5 m). With a width of only 0.9 m it fits perfectly in any compact pit. The small footprint and the reduced noise level at the operator's ear make the **TERRA-PIT DJ 18** user friendly and sustainable. The fast set up time and the increased movability helps you to operate your machine also in urban area. The machine can be equipped with an optional rubber crawler.



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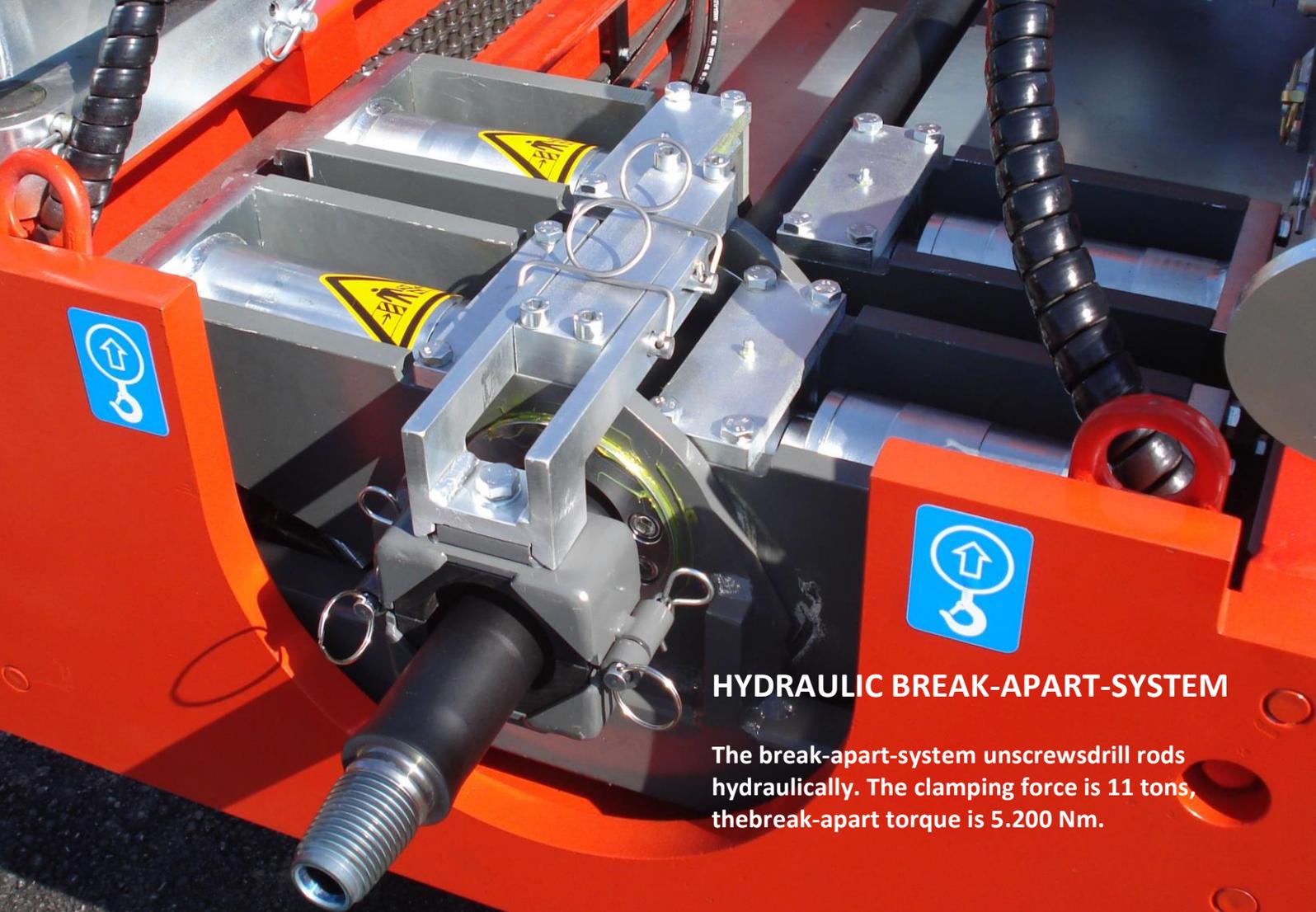
POSITIONING OF THE MACHINE

The 4 hydraulic cylinders position the TERRA-PIT DJ 18 PIT in the working pit and adjust its inclination during surface launch. They can be adjusted to the front and rear, sidewise or downwards.



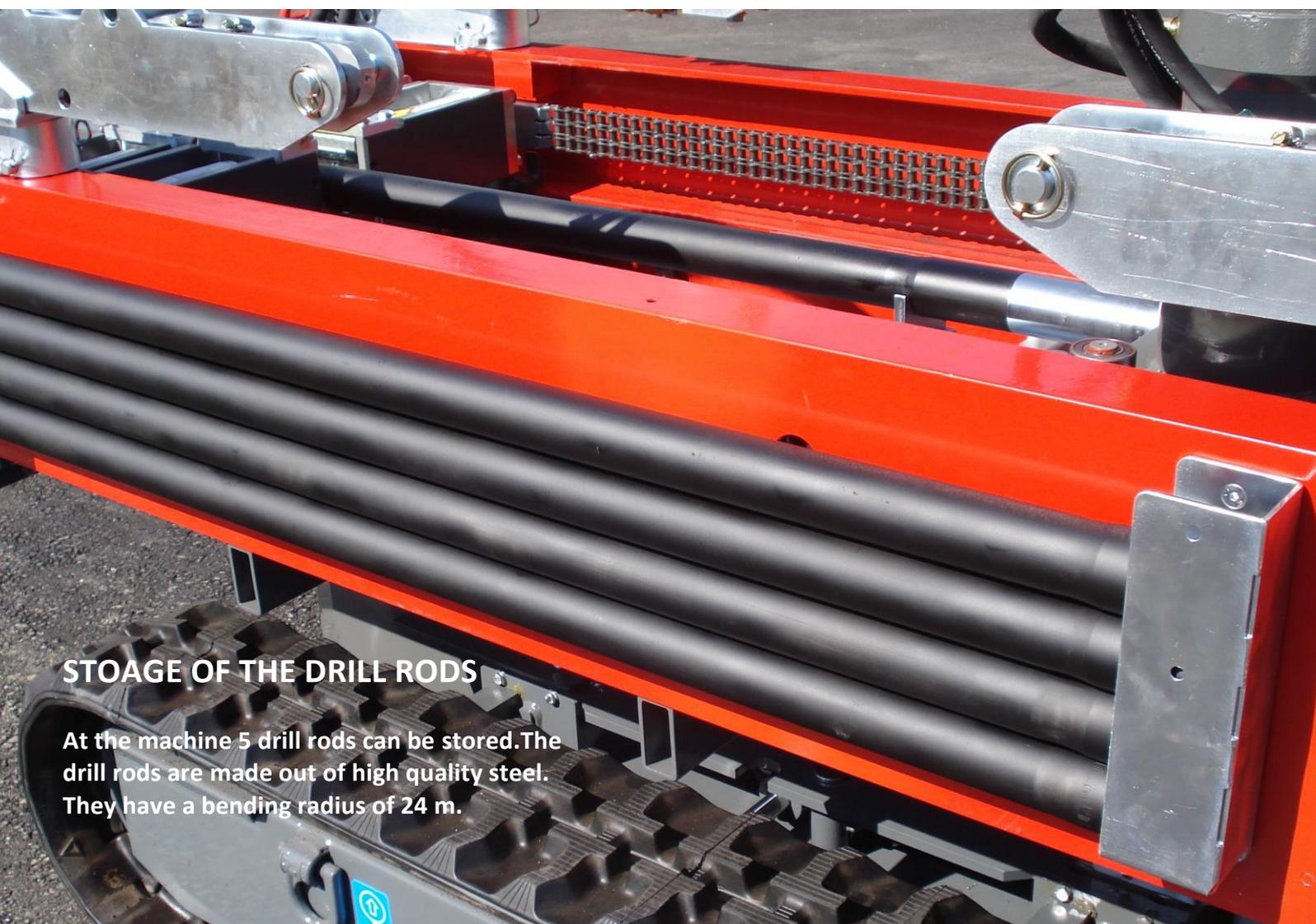
PULLING OF THE PIPE RIGHT INTO THE PIT

The break-apart-system can be moved backwards. Now the backreamer and the new pipe can be pulled into the working pit. All tools can be disassembled in the machine.



HYDRAULIC BREAK-APART-SYSTEM

The break-apart-system unscrews drill rods hydraulically. The clamping force is 11 tons, the break-apart torque is 5.200 Nm.



STORAGE OF THE DRILL RODS

At the machine 5 drill rods can be stored. The drill rods are made out of high quality steel. They have a bending radius of 24 m.



CLEAR CONTROL PANEL

All components of the TERRA-PIT are clearly arranged. The integrated electrical control of the drilling volume takes place by the control panel. For the locating monitor there is a 12 voltage connection. The launching cradle is equipped with a grounding stake and an electrical strike alarm.

FLUID ROCK DRILLING

The **DJ 18 PIT** can be equipped with a fluid rock drilling hammer. With this hammer even rock drilling or drilling in mixed ground conditions is no problem. The control panel has an optional integrated connection for the air compressor.

HYDRO-CHAIN-DRIVE

Thrust and pullback of the driving saddle is done by a hydro-chain-drive. The two static chains are mounted on the launching cradle. The two engines move along the chain. This is powerful and sustainable. The hydro-chain-drive operates in both directions with 8 tons. Highest efficiency can be reached.



Level indicators for the diesel and hydraulic oil level.

HATZ POWER PACK

The DJ 18 PIT is equipped with a 75 HP strong HATZ Diesel engine. The engine speed can be adjusted between low and full speed.

With two independent hydraulic circuits for thrust and rotation the operator can work with maximum pulling force and maximum spindle torque at the same time.

Large oil cooler with 21 kW cooling capacity.

The Power Pack can be lifted with a forklift or at the four yellow lifting eyes.



Mixing and pumping system

The tank with ground flushing allows to mix the bentonite continuously. Tanks are available in 2.000 ltr, 4.000 ltr or even 8.000 ltr.

TERRA-PIT DJ 18 + DJ 18L

Technical Specifications

LAUNCHING CRADLE	Short version (DJ 18 PIT)	Long version (DJ 18L PIT)
Thrust and pullback force	80 kN (8 to)	80 kN (8 to)
Spindle torque, max.	3'000 Nm	3'000 Nm
Spindle speed, 1. gear	135 U/min @ 2'000 Nm	135 U/min @ 2'000 Nm
Spindle speed, 2. gear	90 U/min @ 3'000 Nm	90 U/min @ 3'000 Nm
Carriage thrust travel speed, quick gear	17.5 m/min	17.5 m/min
Carriage thrust travel speed, at full load	8 m/min	8 m/min
Backreamer diameter, max. *	420 mm	420 mm
Maximum drilling length *	100 m	150 m
Drill rods, length	1.0 m	1.5 m
Drill rods, diameter	ø 57/54 mm	ø 57/54 mm
Bending radius, min.	24 m	24 m
Dimensions L x W x H	2.00 x 0.90 x 1.25 m	2.50 x 0.90 x 1.25 m
Weight	1'300 kg	1'400 kg

POWER PACK	
DIESEL engine HATZ Stage 5 **	55 kW (75 PS)
1. hydraulic circuit: rotation	90 ltr/min @ 210 bar
2. hydraulic circuit: thrust	29 ltr/min @ 215 bar
3. hydraulic circuit: mixing and pumping	39 ltr/min @ 145 bar
Diesel tank	70 ltr
Hydraulic oil tank	90 ltr
Dimensions L x W x H	2.10 m x 1.10 m x 1.65 m
Weight	850 kg

MIXING AND PUMPING SYSTEM	
Mixing capacity	800 ltr/min
Drilling fluid volume, max.	95 ltr/min
Drilling fluid pressure, max.	70 bar
Tank volume	2'000 ltr
Dimensions (without tank) L x W x H	1.45 m x 0.75 m x 1.00 m
Weight (with empty tank)	205 kg

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

** Engine with integrated Diesel particulate filter (Stage 5)

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 in house 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!