

TERRA

Trenchless Technologies

Steel Pipe Ram TERRA-HAMMER TR 360

SWISS MADE



TERRA-HAMMER TR 360

Steel Pipe Ramming Systems



840 TONNES OF IMPACT FORCE. ONLY 1.75 METRES IN LENGTH.

The **TERRA-HAMMER TR 360** combines maximum power with impressive efficiency. With an impact force of **840 tonnes**, it is one of the most powerful steel pipe rams on the market. At the same time, with an overall length of just **1.75 metres**, it is extremely compact and, thanks to its acceleration ports, consumes only **12 m³/min** at 7 bar. It is therefore shorter and requires significantly less air than comparable rams of this size.

STEEL PIPES UP TO 1,000 MM IN DIAMETER

The **TR 360** enables steel pipes **with a diameter of up to 1,000 mm** to be laid precisely, cost-effectively and reliably. The steel pipes are driven horizontally into the ground in segments of 6 m or 12 m in length. The pile driver positioned behind the steel pipe ensures continuous advancement. Depending on ground conditions and pipe dimensions, drive lengths of over **80 m** can be achieved. This method is particularly suitable for trenchless crossings beneath roads, watercourses and other obstacles.



START-UP AND SAFETY ACCESSORIES

To ensure a safe start-up procedure, the TERRA pile driver is secured to the steel pipe using specially designed **fastening accessories**. The tension chain provides a reliable connection between the steel pipe and the tensioning strap, ensuring safe force transmission during the driving process.



RAMMING RINGS (UP TO Ø 800 MM)

For pipe diameters up to Ø 800 mm, **ramming rings** are used as a **plug-in system**. These can be flexibly combined with the next larger ramming ring in the TERRA plug-in system.





RAMMING PLATES (FROM $\varnothing$ 800 MM)

Specially developed **ramming plates** are available for pipe diameters from $\varnothing$ 800 mm. Thanks to their matched external cone, they can be inserted directly into the steel pipe to be driven, enabling simple and efficient force transmission.

TERRA-HAMMER TR 360

Steel pipe rams



LUBRICATOR WITH 10 L CAPACITY

A lubricator with a **10-litre capacity** is provided to ensure a constant and **optimum oil supply**. This ensures reliable lubrication of the pile driver throughout its operation and helps to maximise the machine's performance and service life. A **biodegradable**, synthetic high-viscosity oil is used to ensure optimum operation of the pile drivers.

LOW AIR CONSUMPTION

Thanks to the innovative acceleration ports in the main piston, the pile driver requires up to 40% less compressed air than comparable systems. It operates extremely efficiently with an air flow of just **12 m³/min at 7 bar**. Depending on site requirements, it can be operated flexibly with **one or two compressors**. The internal air flow has been continuously developed, optimised and perfected over decades. The result is a highly efficient system offering **maximum impact performance with minimal energy consumption**.

ALSO SUITABLE FOR VERTICAL USE

Thanks to its compact design, the **TR 360** can also be used **vertically**, making it ideal for applications in specialised civil engineering, pipe jacking and foundation work. It delivers reliable performance, high efficiency and precise results – even under demanding operating conditions. The steel pipes serve as foundations for utility poles, as foundation piles, as bollards for port facilities or as supports for jetties.



TERRA-HAMMER TR 360

Steel Pipe Ramming Systems

	METRIC	IMPERIAL (U.S.)
DIMENSIONS		
Diameter	360 mm	14"
Length	1.75 m	5.7 ft
Weight	663 kg	1,460 lbs
Piston weight	352 kg	775 lbs
OPERATION		
Impact rate	280 1/min	280 1/min
Air consumption	12 m ³ /min	3.170 gpm
Air pressure	6 – 7 bar	85–100 psi
Impact energy	11,000 J	11,000 J
FOR STEEL PIPES		
Diameter DN	200 – 1,000 mm	8 – 40"
Driving lengths	80 m	265 ft

* These figures are subject to ground conditions. Subject to technical changes.

TERRA steel pipe rams – a colossus of steel!



TERRA LUBRICATOR AND OIL

TERRA has developed a special driving oil for its steel pipe rams. The synthetic high-viscosity oil prevents freezing down to -25°C (antifreeze).



FASTENING ACCESSORIES

During the start-up process, the TERRA steel pipe ram is securely clamped to the steel pipe using the fastening accessories.



RAMMING RINGS & PLATES

TERRA ramming rings and ramming plates transfer the impact energy into the steel pipe. All TERRA ramming rings feature a slight taper and a stop.



CUSTOMER SUPPORT

Satisfied customers worldwide and a service-friendly design make the TERRA pile driver a must-have for every civil engineer. Customer service that inspires!