

Steel Pipe Ram TERRA-HAMMER TR 220

SWISS MADE



TERRA-HAMMER TR 220

Steel Pipe Ramming Systems



370 TONNES OF IMPACT FORCE. COMPACT. COST-EFFECTIVE.

The **TERRA-HAMMER TR 220** impresses with an optimal combination of performance, compact design and high efficiency. With an impact force of **370 tonnes** and an overall length of just **1.60 m**, it is the ideal solution for trenchless steel pipe driving in the medium-capacity range. Its low air consumption of just **7 m³/min at 7 bar** ensures economical operation and reduces energy requirements on site.

FOR STEEL PIPES UP TO Ø 600 MM IN DIAMETER

The **TR 220** is designed for the precise and reliable installation of steel pipes up to **Ø 600 mm**. Depending on ground conditions and pipe dimensions, driving lengths of **up to 60 m** can be achieved. The tried-and-tested ramming method enables the trenchless crossing of roads, railway tracks, watercourses and other obstacles – quickly, cost-effectively and with minimal disruption to the surface.





START-UP AND SAFETY ACCESSORIES

To ensure a safe start to the driving process, the TERRA driver is secured to the steel pipe using specially designed fastening accessories. The tension chain reliably connects the tension strap to the steel pipe and ensures safe and even force transmission throughout the entire driving process.



RAMMING RINGS (UP TO $\varnothing$ 600 MM)

For pipe diameters up to $\varnothing$ 600 mm, ramming rings in the **TERRA plug-in system** are used. Thanks to their modular design, they can be flexibly combined with the next larger driving ring, thus allowing easy adaptation to different pipe diameters.



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SUITABLE FOR VERTICAL USE

Thanks to its compact design, the **TR 220** is suitable for both horizontal and vertical use. Steel pipes can be used as foundations for utility poles, foundation piles, harbour bollards or piers for jetties.

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LUBRICATOR WITH 10 L CAPACITY

A lubricator with a capacity of **10 litres** ensures consistent and reliable lubrication of the pile driver throughout its operation. This guarantees trouble-free operation and contributes to the machine's long service life. For optimum performance, a biodegradable, high-viscosity synthetic HD oil is used, which is specially formulated to meet the requirements of TERRA pile drivers.

LOW AIR CONSUMPTION

The acceleration ports integrated into the main piston ensure particularly efficient use of compressed air. With an air consumption of just **7 m³/min at 7 bar**, the **TR 220** operates extremely economically and requires significantly less energy than comparable systems. The airflow, which has been continuously optimised over many years, ensures high impact performance with minimal air consumption and enables efficient use on a wide variety of construction sites.

3-YEAR WARRANTY ON THE MAIN PISTON

The main pistons of **the TR 220** account for up to 35 % of the machine's total weight. All main pistons are machined from a single piece of material, thereby eliminating critical joints. In combination with the tried-and-tested hollow-head design, the impact energy is transferred directly to the pipe end, ensuring a particularly high impact force. TERRA provides a **3-year warranty** on all main pistons.



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	METRIC	IMPERIAL (U.S.)
DIMENSIONS		
Diameter	220 mm	8.7"
Length	1.6 m	5.2 ft
Weight	315 kg	695 lbs
Piston weight	121 kg	267 lbs
OPERATION		
Impact rate	320 1/min	320 1/min
Air consumption	7 m ³ /min	1,850 gpm
Air pressure	6 – 7 bar	85 – 100 psi
Impact energy	4,400 J	4,400 J
FOR STEEL PIPES		
Diameter DN	100 – 600 mm	4 – 24"
Driving lengths	60 m	200 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!