

GRUNDOMAT achieves more.

Almost 30 years of experience and know-how have made the GRUNDOMAT mole what it is today: Proven over thousands upon thousands of times and admired by pipe and cable laying companies world-wide - with many features and distinct advantages in its favour.



1 Reciprocating chisel head

suitable for most soil types, no need to exchange head profile. The air-driven piston of the hammer propels the reciprocating chisel head, acting like a jack-hammer, which destroys and displaces possible obstacles in the bore path. Advantage: due to the two-stroke action of the chisel head, the GRUNDOMAT will remain accurate on target, even in the most difficult soil types including those with stone inclusions.



2 Interchangeable heads for pipe ramming

By using a slip-on cone steel pipes from DN 80 mm upwards can be rammed directly into the ground. Advantage: pipes with larger diameters than the Grundomat itself can be installed.



3 Expander sleeve

An expander sleeve can be used for laying larger pipe diameters including specialist pipe-cracking operations. Advantage: the pilot bore hole can be enlarged, old pipes replaced and up-sized resulting in huge cost savings.



5 Piston

Solid construction piston with extended life expectancy, due to special hardening and surface plating, characteristic high impact and performance, due to excellent internal seals ensuring low air consumption. The piston has wide and strong Teflon slide tapes, therefore avoiding metal to metal contact, and minimal internal wearing on all moving parts. Advantage: extremely stout and wear resistant.



6 Telescopic Aiming Frame Grundoscope

A water level and telescopic sight integrated in the horizontal aiming frame indicates the alignment and possible corrections required to the bore course. The aiming frame is made from light weight corrosion-free aluminium and is available in two height sizes. Advantage: Easy alignment of the Grundomat to the exit pit, stepless corrections possible by adjustment screws on the starting cradle.



9 Direct connections for installing

PE-, PVC- and steel pipes. Our pull sleeves are independent accessory parts which can be easily screwed onto the rear of Grundomat and are not a fixed part of the reversing control mechanism. Therefore, it is easy to exchange the rear end cone to a pull sleeve on the job-site. Advantage: direct towed pipe-installation, saves time and avoids the risks of bore hole collapse.



10 Control stud mechanism

for forward and reverse boring directions, very easy to use. A quick pull on the air-hose coupled with a 1/4 turn is all that is required to switch the GRUNDOMAT hammer from forward to reverse action if it is necessary to reverse it back when penetrating insurmountable boring obstacles or for blind bore applications. Advantage: Easily actuated, no need for numerous turns of the air hose, or disconnection from the compressor or lubricator, no trailing reverse cables.



11 Casing

The casing is chromium plated to resist against corrosion. The internal surface is perfectly honed. Advantage: solid, durable, long life, low air consumption, efficient.



4 Two-stroke action

The pilot bore is established using the reciprocating chisel head, driving the GRUNDOMAT forward with each stroke of the piston. Advantage: always accurate, as initially only the chisel head works and the machine body remains static within the bore. The impacting force is concentrated on the chisel first to overcome the high initial ground resistance and secondly on the GRUNDOMAT outer casing to overcome the surface friction resistance



7 Starting cradle

adjustment screw for stepless adjustment for the launch direction of the Grundomat in all elevations. A pinch-roller absorbs the Grundomat's recoil when first entering the ground. Advantage: facilitates accurate launching and alignment of the larger machines.



Regular certified **free training courses** available from our own trained technicians.



12 Compressed air hose

either 25 m or 15 m in length. Constructed from successive layers of corrosion and rupture resistant rubber, interwoven with either a strong steel mesh and/or textile cladding. Quick couplings for lubricator or air heater with safety coupling adapter for moody couplings. Advantage: long life good durability, no hose kinking or flattening, oil and abrasion proof.

The unmistakable.



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for a perfect
pipe installation.