



The most successful soil displacement hammer of all times

GRUNDOMAT "P"-Generation





GRUNDOMAT - the number 1



The GRUNDOMAT soil displacement hammers have been around since the 70's. The idea for the development came with the disruption of a freshly asphalted road just to install a small water pipe. Since then the "mole" has been used worldwide on countless occasions. Over the years it has been technically improved to perfection. The precise target accuracy is the main reason for its success which is achieved with the unique two-stroke impact moving head method.





The two-stroke impact method - often copied but never equalled

The precise target accuracy as well as the exact alignment and adjustment are achieved through the two stroke impact method. On the first stroke **a)** the whole moving head assembly is propelled forward as the piston accelerates and impacts against the rear of the chisel driving it forward to create a pilot borehole. As the piston then returns, the second stroke **b)** the compressed spring in the head further pulls the long cylindrical casing into the previously made pilot borehole.

Should an "obstacle" be encountered and forward propulsion hindered, the chisel/multicutter cone in the reciprocating head will continue "chiselling" independently until the obstruction is fragmented and displaced.

The stepped head, which is fastened on to the chisel by lock pins, can easily be exchanged for other types of head profiles.



Producing a service connection.



Advantages:

- Maximum aimimg accuracy
- High penetrating power even in stony soils
- Stepped head with cutting edges
- Maximum directional and running stability even in soft soils due to partly grooved casing
- Approved worldwide
- Low air consumption
- Simple and safe handling
- Operator training courses



Control stud

The GRUNDOMAT-P has a forward and a reverse gear. The reverse gear is used, for example, for vertical or blind bores (dead-end bores).



From GRUNDOMAT types 130 to 180 -Servo control stud (Switch over with simple lever operation)

Driven with compressed air (compressor 7 bar)



From GRUNDOMAT types 45 to 110 -Thrust control stud (Switch over with a 1/4 turn of the air hose)

You can rely on this displacement hammer

The GRUNDOMAT is especially corrosion resistant and low on wear because:

- head and piston are heat-treated,
- the casing is hard-chrome plated inside and outside,
 - the piston is positioned on slide tapes,
 - seal rings provide an economical air consumption and prevent the penetration of water/dirt.



Teflon slide tapes on the phosphated piston prevent any metal to metal friction.

Made in Germany



Lock pins







For undercrossings

The GRUNDOMAT soil displacement hammer is used for • road, railway and river undercrossings. From type 130 > it is also suitable for • steel pipe ramming and for • pipe cracking. • sewage house connections • blind bores, mini piling etc. are also possible. PE and PVC pipes up to ND 160 can be installed.





For property service connections...

There are shorter K type Grundomats, which can be started directly out of the basement or confined spaces. Applicable for • gas • water • power • telecom (FTTX). Old steel pipes can even be driven out using a slip-on cone.



Confined space property connection directly out of the basement.



For the environment

Using the soil displacement hammer means: no disturbance to gardens, flora and fauna, no objections from the general public, minimal excavation, less construction plant equipment, prevention of traffic jams, diversions and subsequent road repair work as well as low noise emissions, reduced dust particles and CO_2 outputs.



Safety is the main concern

Before each application the bore path must be examined for any adjacent pipes and cables and a safe working distance must be maintained.

Location of adjacent service pipes/cables.

new Safety package



A **non-conductive compressed air hose**, the **insulation adapter**, as well as the **safety launch equipment** for the operator provide a high level of security against accidental damage from power cables within distance of the soil displacement hammer.

Direct pipe installation



PE or PVC pipes are directly pulled in by the GRUNDOMAT. Subsequent installations in reverse mode are also possible.

Practical, small profile, quick couplings simplify the connection and disconnection of the compressed air hoses and allow for a trouble free direct installation of pipes.



Grooved casing

The optional partially grooved casing increases the friction in softer soils and stabilises the soil displacement hammer.





³ Model 2500G **GRUNDOBURST** - Static pipe bursting

Models: 400G + S, 800G, 1250G und 2500G Pipe renewal up to Ø 1000 mm

GEODRILL 20V



GEODRILL 4R

PRIME DRILLING - Large HDD rigs Up to 600 t pulling force, bores up to Ø 2000 mm



THE ONLY CHOICE FOR PERFECT PIPE INSTALLATIONS

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