

MINI ROCK DRILL

HAUSANSCHLUSS. GRABENLOS. GESTEUERT.

 **DWL**
Baumaschinen



MiniRockDrill

House connection. Trenchless. Steered.

MiniRockDrill

Trenchless house connection redefined!



- ▶ With the development of our compact mini drill, we are opening up new possibilities and providing an answer to the increasingly large pipe diameters required in the house connection area in difficult geologies such as gravel, sandstone, soft and hard rock. The MiniRockDrill can be installed quickly and easily in the basement or as a drilling rig, including the pit frame, in the pit. Whether from the basement or from the pit, with the MiniRockDrill you can lay pipes in challenging ground conditions, where a static expanding with a push rod system is no longer possible.

Short description

We have deliberately designed the MiniRockDrill concept to be large-scaled so that no compromises have to be made when drilling in difficult geologies up to 50m* with 200mm** reamers.

The 56hp hydraulic power pack, with three separate hydraulic circuits and an integrated high-pressure bentonite pump, provides enough power to operate the rig and bentonite pump at maximum load without losing torque, pulling force or bentonite flow.

With proportional hydraulic valves and a remote control, the MiniRockDrill can be controlled comfortably and accurately. Especially in difficult geologies, which require a carve move to make a change of direction, our system can be used to work precisely and directly.

* Depending on geology up to 100m

** Depending on geology up to 350mm reamers

MiniRockDrill

Basement operation



- ▶ The MiniRockDrill can be easily and quickly placed in the house/cellar/garage to the P20 wall bracket or to a core hole wall bracket. As the unit consists of two main parts, a simple and quick installation is guaranteed, even in confined spaces and with minimum component weights. With our optional DN200 core-hole wall bracket, the installation is even faster directly in the core hole.

Specifications

DIMENSIONS FOR BASEMENT OPERATION

LENGTH	1570 mm
WIDTH	670 mm
HEIGHT	720 mm

WEIGHT OF THE HEAVIEST UNIT

DRILLFRAME WITH CARRIAGE	74 kg
---------------------------------	-------

POWER SPECIFICATIONS

THRUST AND PULLBACK FORCE	28 kN
TORQUE	895 Nm
SPINDLE SPEED	170 U/min

HYDRAULIC POWERPACK

ENGINE	Kohler Stage V, 3 cylinders, 56 hp
HYDRAULIC PRESSURE, MAX.	210 bar
HYDRAULIC FLOW RATE	90 l/min
BENTONITE PUMP, FLOW, MAX.	34 l/min
BENTONITE PUMP, PRESSURE, MAX.	50 bar

DRILL PIPE

LENGTH	740 mm
BENDRADIUS	21 m

TRANSPORT WEIGHT

COMPLETE WITH ALL COMPONENTS	265 kg
-------------------------------------	--------



MiniRockDrill

Pit operation



- ▶ For use in the excavation pit, the MiniRockDrill, including pit frame, can be quickly placed as a complete drilling rig with an excavator. If no lifting gear is available, the pit frame, the drill frame and the rotation gearbox can be installed individually by hand. With the integrated hydraulic hand pump and the two cylinders on the pit frame, a quick fixation is guaranteed and it can be quickly retensioned during operation if the frame becomes unstable.

Specifications

DIMENSIONS FOR PIT OPERATION

LENGTH	1500 mm
WIDTH	670 mm
HEIGHT	650 mm

WEIGHT OF THE HEAVIEST UNIT

PIT FRAME	118 kg
------------------	--------

POWER SPECIFICATIONS

THRUST AND PULLBACK FORCE	28 kN
TORQUE	895 Nm
SPINDLE SPEED	170 U/min

HYDRAULIC POWERPACK

ENGINE	Kohler Stage V, 3 cylinders, 56 hp
HYDRAULIC PRESSURE, MAX.	210 bar
HYDRAULIC FLOW RATE	90 l/min
BENTONITE PUMP, FLOW, MAX.	34 l/min
BENTONITE PUMP, PRESSURE, MAX.	50 bar

DRILL PIPE

LENGTH	740 mm
BENDRADIUS	21 m

TRANSPORT WEIGHT

COMPLETE WITH ALL COMPONENTS	265 kg
-------------------------------------	--------





DWL Baumaschinen AG
Schützenstrasse 6
6234 Triengen
Switzerland

+41 (0)62 775 00 01

office@dwl.ch
dwl.ch