

6 MICROPILE DRILLING SYSTEM

D 244.5 mm – 508 mm (9-5/8" – 20")

with double head unit (rotary / rotary)



Small diameter piles are designed for different applications. They transfer their loads over skin friction to the load-bearing subsoil / stratum. For their realisation, even small drilling rigs can be used in confined conditions.

In many cases double-head drilling rigs are chosen.

When drilling in mixed soils with rock deposits, often a DTH Hammer together with augers as internal drill string are utilised for the better discharge of the drilled cuttings. If the soil conditions permit it, an internal drill string consisting only of auger drill rods and a rotary drill bit may be used.

MICROPILE DRILLING SYSTEM

with double head unit (rotary / rotary)

DIAMETERS OF
244.5 mm TO 508 mm
(9-5/8" TO 20")



COMPLETE FLEXIBILITY

Each of our drilling systems are custom-made – 100 % adapted to the project needs and the ground conditions encountered at the construction site.

All drill bits are available in a plethora of designs and borehole diameters, project and / or customer specific

- 1 Flange to suit the rear rotary head unit
- 2 Balancing rod with length adapted to machine and double head
- 3 Ejection bell to suit front rotary head unit equipped with splash protection
- 4 Drive flange to suit outer casings
- 5 Rotary casing (outer drill string) – in lengths of 500 mm (approx. 1-5/8") to 6000 mm (approx. 20')
- 6 Adaptor-sub (thread-saver) to balancing rod and inner drill string / drill rods or auger drill rods
- 7 Auger drill rods (inner drill string) to match outer drill string – in lengths of 500 mm (approx. 1-5/8") to 6000 mm (approx. 20')
- 8 Adaptor-sub (thread-saver, starter casing, grout injection pipe)
- 9 DTH shock absorber
- 10 DTH hammer
- 11 Auger drill bit
- 12 DTH percussion bit
- 13 Casing bit

The thread profiles are available in right-hand (RHT) and left-hand (LHT), as well as conical and cylindrical versions. All supplied casings are realised through various manufacturing methods and are application specific.

THE SYSTEM IN ACTION



PRECISION ENGINEERED DRILLING SOLUTIONS FROM INITIAL CONCEPT TO FINAL TOOL SYSTEMS – EVERYTHING UNDER ONE UMBRELLA!



Sysbohr's highly qualified team develop custom tooling and economically efficient solutions for all drilling projects in the special civil engineering and geothermal energy sectors.

THE ADDED ADVANTAGE

Project planning including: Support and guidance of drilling personnel over the entire duration of the project at hand. Quick and on-track customer results mirrored by Sysbohr's quick turn around times from order to final delivery.

We look forward to being your partner of choice on your next projects and challenges.

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Sysbohr's offering includes the development and production of tools and accessories for the entire range of applications in diameters from 51 mm (2") to 610 mm (24").

The systems shown in this product catalogue show standard system variants and can be combined together to form unique systems if required.

Non-off-the-shelf products for complex drilling applications and extreme drilling conditions can be tailor-made to meet customer needs and expectations.

Sysbohr's sales team look forward to guiding customers through a detailed in-house consulting process, whereby a comprehensive drilling solution is identified and generated.