

PRINCIPLE

The hollow-stem auger (HSA) system is used to drill and case a borehole simultaneously in gravelly or heterogeneous soil such as sand or gravel.

The principle of this method is to use a string of rods with a pilot bit inside the auger string. The hollow-stem auger can also be positioned using lost tools instead of internal rods. Soil should not enter the auger regardless of the method used. This is an ideal method for piezometer installation, well monitoring, geotechnics, micro-piles, tubing for SPT tests and pressuremeter tests.

In a standard configuration (auger+rod), when the desired depth is reached, the inner rods are removed to free the inside of the auger. Coring or sampling is subsequently possible beyond this depth.

We offer a range of four standard dimensions identified by their inside and outside diameters:

($\varnothing$ inside x $\varnothing$ outside)

- 66 x 140 mm ($\varnothing$ int x $\varnothing$ ext)
- 82 x 175 mm ($\varnothing$ int x $\varnothing$ ext)
- 111 x 194 mm ($\varnothing$ int x $\varnothing$ ext)
- 159 x 254 mm ($\varnothing$ int x $\varnothing$ ext)

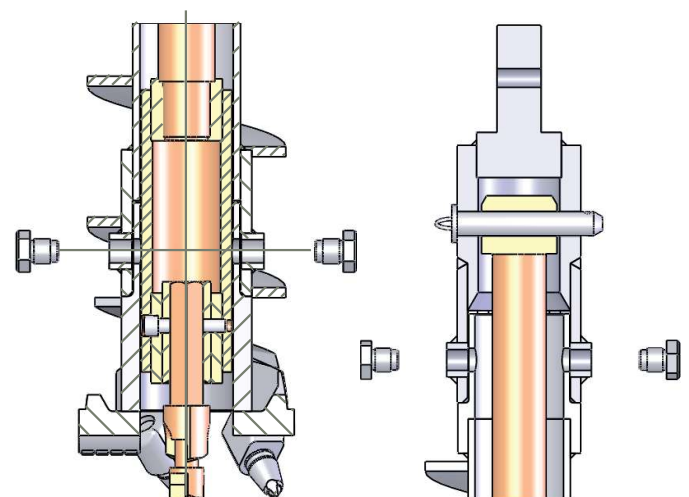
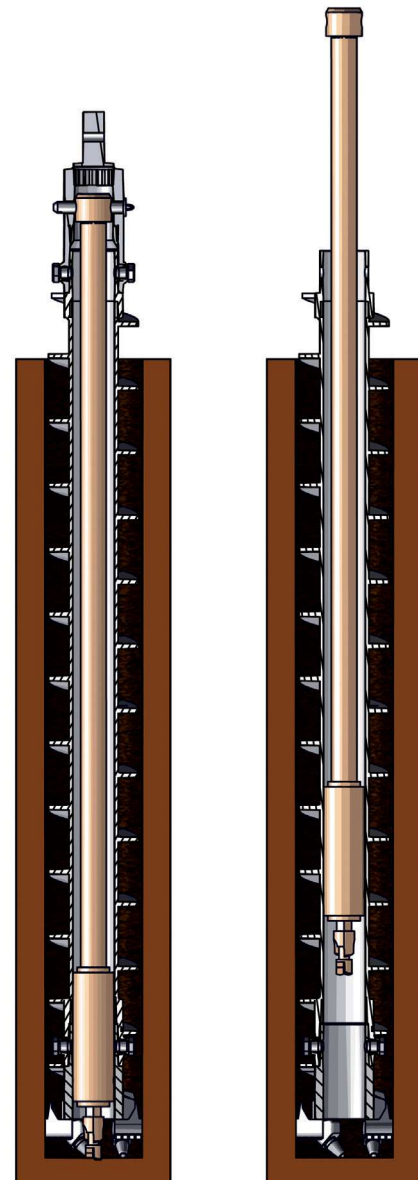
DESCRIPTION

The top of the equipment consists of a dual head leading both the auger string and the inner rod string. The augers are fixed to the driving head with nuts and bolts, whilst the top rod is fixed to the head using an adapter secured with a locking pin.

The augers and inner rods are added in 1.5 m lengths (or others lengths on request) until the target drilling depth is reached. The rods are threaded and screwed, whilst the augers are secured using nuts and bolts.

The first (bottom) rod is equipped with a plug adapter connecting the rod to the pilot bit. The bottom auger is fitted with a tungsten carbide cutter head bit including both self-sharpening bullets for chipping action and blades for cleaning.

When the inner rods are removed, the stem of the auger is completely emptied to its full inner diameter.

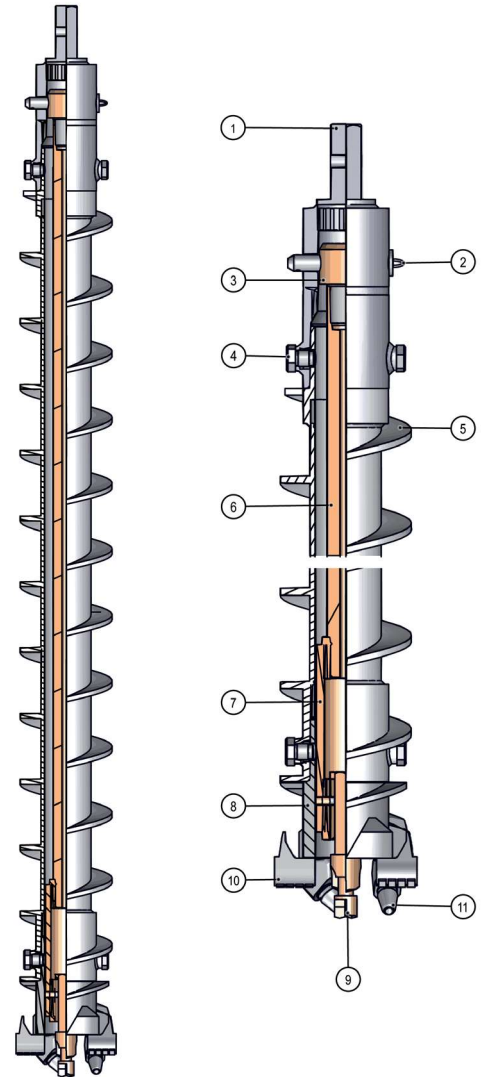
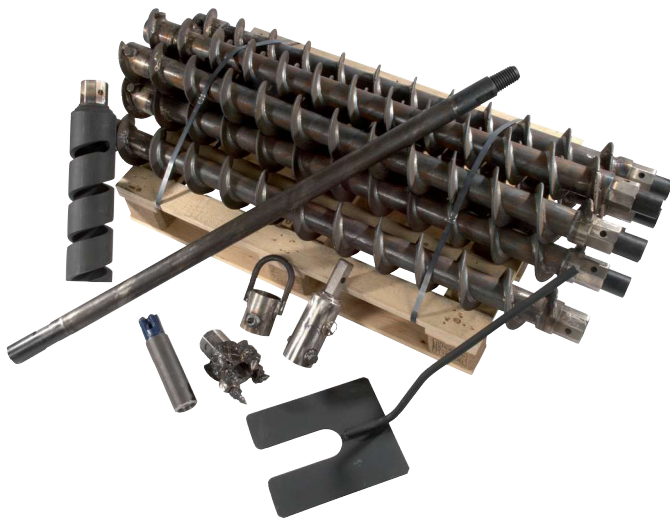




See instructions for
using the augers, p 83

OCTAGONAL CONNECTION

BEST REPARTITION OF DRILLING TORQUE AND
REDUCTION OF THE RISKS OF DAMAGE



COMPOSITION OF THE SYSTEM

Description	Dimensions in mm (Ø inside x Ø outside)			
	Ø 66 x 140	Ø 82 x 175	Ø 111 x 194	Ø 159 x 254
1 Driving head	F6 06614001	F6 08217501	F6 11119401	F6 15925401
2 Rod bolt	*	*	*	*
3 Rod x head adapter	F6 06614004	F6 08217504	F6 11119404	F6 15925404
4 Auger locking bolt	F6 06614010	F6 08217510	F6 11119410	F6 15925410
5 Hollow auger 1,5 m long	F6 06614002	F6 08217502	F6 11119402	F6 15925402
6 Rod Ø60 x 1.5m	K2 010006005	K2 010006005	K2 010006005	
6 Rod Ø76 x 2"3/8 Reg x 1.5m				K2 010237505
7 Plug adapter for pilot bit	F6 06614005	F6 08217505	F6 11119405	F6 15925405
8 Heavy duty cutter head bit	F6 06614003	F6 08217503	F6 11119403	F6 15925403
9 Pilot bit	Drag bit ø63,5 mm ID 01025001	Drag bit ø76 mm I5 010030001	Drag bit ø108 mm I5 010042501	Drag bit ø156 mm I5 010061251
10 Plug adapter for pilot bit	*	*	*	*
11 Finger bit	*	*	*	*
Left in hole bit (Option)	F6 06614007	F6 08217507	F6 11119407	F6 15925407

ACCESSORIES

Hoisting plug	F6 06614009	F6 08217509	F6 11119409	F6 15925409
Auger holder	F6 06614008	F6 08217508	F6 11119408	F6 15925408
Auger retriever	F6 06614011	F6 08217511	F6 11119411	F6 15925412

*Please, consult us.