CME

Bearing Head Continuous Sample Tube System

Rod to cap adapter

Drill rod

Adjustment Rod

Hollow-stem auger
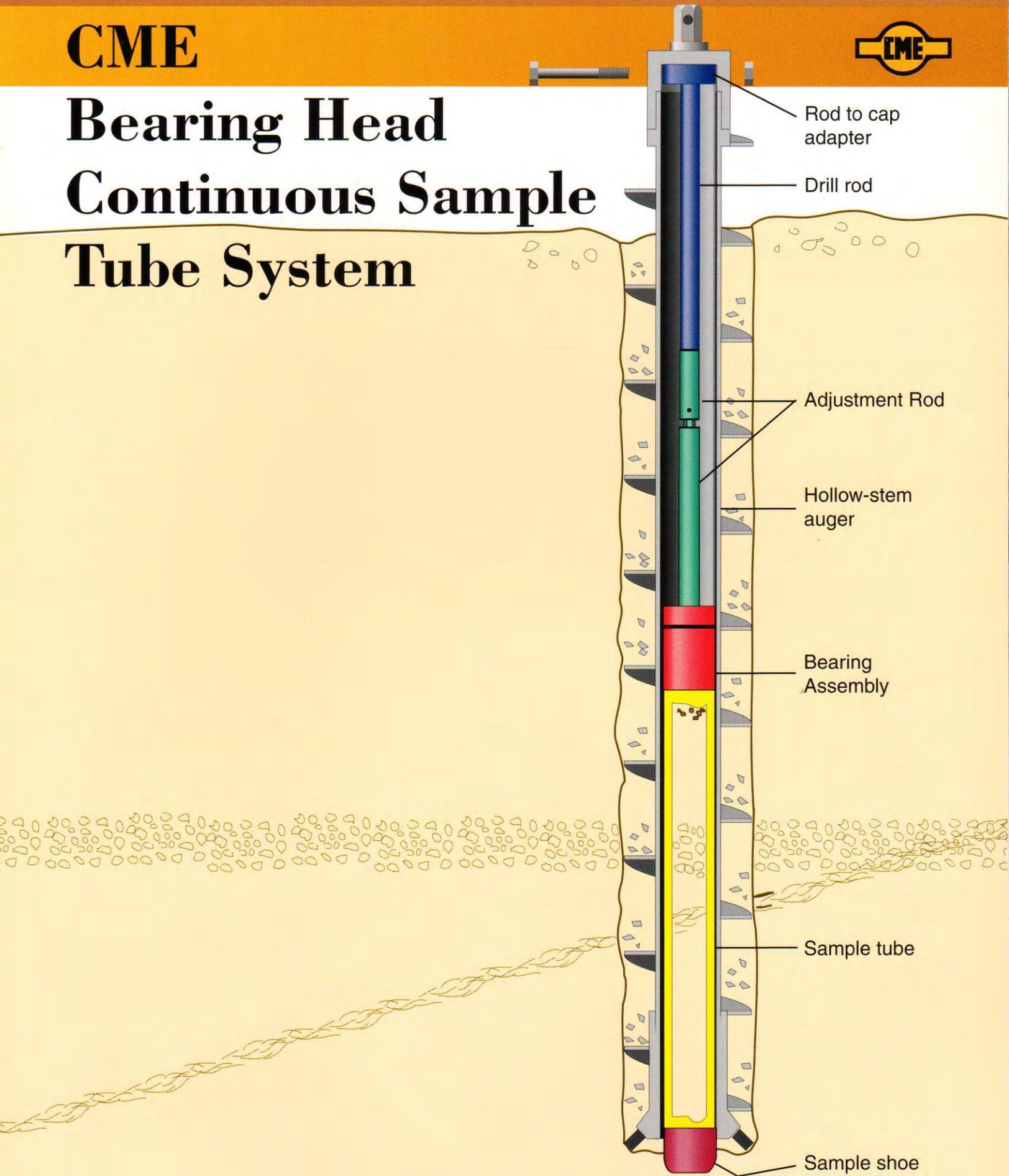
Bearing Assembly

Sample tube

Sample shoe

The CME Bearing Head

Continuous Sample Tube System provides an efficient method for sampling soil and weak rock simultaneously while drilling with hollow augers.

High quality samples

This system consistently recovers high quality samples in many augerable materials such as glacial till, hard clays, shales, mine tailings, lignite, peat and loess. The sealed bearing assembly conveys thrust during drilling to the tube and sampler shoe while isolating them from rotation of the center stem and augers. The undisturbed specimen enters the sample barrel as the augers are advanced. No drilling fluid or air is required.

A bearing head sampler system is available for 2 1/4", 2 3/4", 3 1/4", 3 3/4", 4 1/4" and 6 1/4" I.D. CME hollow-stem augers. System components include a drill rod to drive cap adapter and 5 foot sections of AW or NW threaded drill rod. An adjustment rod connects the drill rod to the bearing assembly and 5 foot capacity sample tube. This center stem string positions a solid or spit-tube sampler within the lead auger.
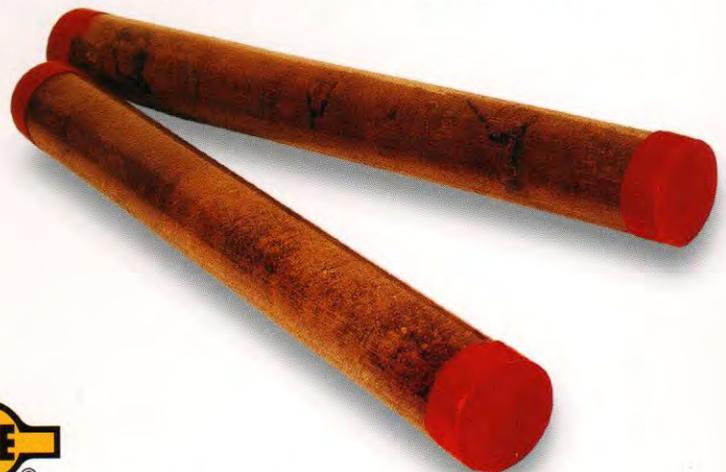
Adjustable sample tube extension

The adjustment rod allows you to adjust the extension of the sample tube. For sampling soft materials, the tube can be positioned beyond the auger teeth. In harder materials, such as shales, it can be positioned behind the auger teeth.

Sampler retracted for hard material

Sampler extended for soft material

Clear plastic liners available

Clear plastic liners can be run inside split tube samplers. Upon removal from the sample tube, the liners containing samples can be sealed with plastic end-caps. These liners allow visual inspection of the sample in the field, while keeping it intact for transport to a lab for further analysis.

Sample shoe with basket retainer

A sample shoe with basket retainer is also available. The basket helps contain the specimen within the sampler as it is withdrawn from the borehole.

CENTRAL MINE EQUIPMENT COMPANY