



SonicCPT

Combine Sonic drilling with Cone Penetration Testing



SonicCPT

Eijkelpamp SonicSampDrill presents SonicCPT. With SonicCPT two technologies are combined to create the ultimate geotechnical testing method for overburden formations; sonic drilling with Cone Penetration Testing.

With SonicCPT it is possible to add sonic vibrations to the CPT process when needed. This will make it possible to push through layers that provide too much friction for conventional CPT. The electrical cone can even measure tip pressure and sleeve friction while sonic vibrations are engaged! After using a software programme the sonic influence will be filtered out.

SonicCPT and CPT with a Sonic Rig

SonicCPT will make CPT jobs easier, cheaper and more successful! Abandoning job sites due to refusal will be something from the past in many cases!

The combination of CPT and a sonic rig will take away most uncertainty of using CPT in all alluvial ground. In worst case scenario it is possible to predrill through real hard layers, set a casing and continue with CPT.

A Sonic rig with the SonicCPT option can be used for multiple jobs. This will save on mobilization and extra overhead costs when both are needed at the same job. SonicCPT also makes it possible to reduce the rig size. A lighter rig for CPT can be used till depths where a big CPT rig has refusal and even make it possible to get to greater depths.

As a result of the integration of both systems, you now have an efficient tool for obtaining both geotechnical and environmentally technical data as well as the possibility to take soil or groundwater samples.

The simple plug-and-play system contains a SonicCPT cone, rods and cable. For logging there is a logging box and depth encoder. All data can be real time registered at a laptop.

Available products for Cone Penetration Testing and SonicCPT:

- SonicCPT electrical cone, measuring:
 - Tip resistance (qc)
 - Sleeve friction (fs)
 - Deviation in two directions
- CPT Logging equipment, data logger, depth encoder
- Cables
- Electrical cones available for static CPT:
 - CPT cone
 - CPTu Pore pressure cone (u1-u3)
 - Electric Conductivity cone
 - Video cone
 - Magnetic field detection cone
- Ground anchors for light drill rigs
- Software
- Training

Contact

Do you want to know more about our products and possibilities, or do you want to have a practical demonstration? Please feel free to contact us!

