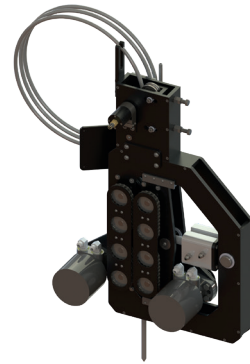


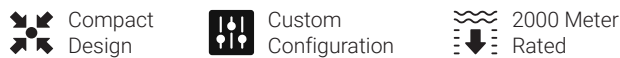
CR-CPT System

Coiled·Rod·Cone·Penetration·Test

The Wassoc CR-CPT system is a compact and efficient tool for subsea soft sediment characterization. Available as a 2cm² or 5cm² system, it can be delivered as a fully integrated subsea asset complete with power, telemetry, and handling system or as a discrete tool for installation onto an existing subsea vehicle.



Features



- Coiled rod facilitates constant penetration rate
- Compact design for integration on a small subsea vehicle
- Power efficient with low pressure and low flow design
- Maximum thrust of 10kN
- Maximum penetration depth of 10m

How It Works

During penetration, the coiled rod with attached cone is at once straightened and driven into the seabed by a proprietary high-friction feed roller system. The rod and cone are driven at a constant rate of 2cm/s. The cone senses tip force and sleeve friction resistance (other cone sensors available) and transmits the digital information through the rod via RS-485.

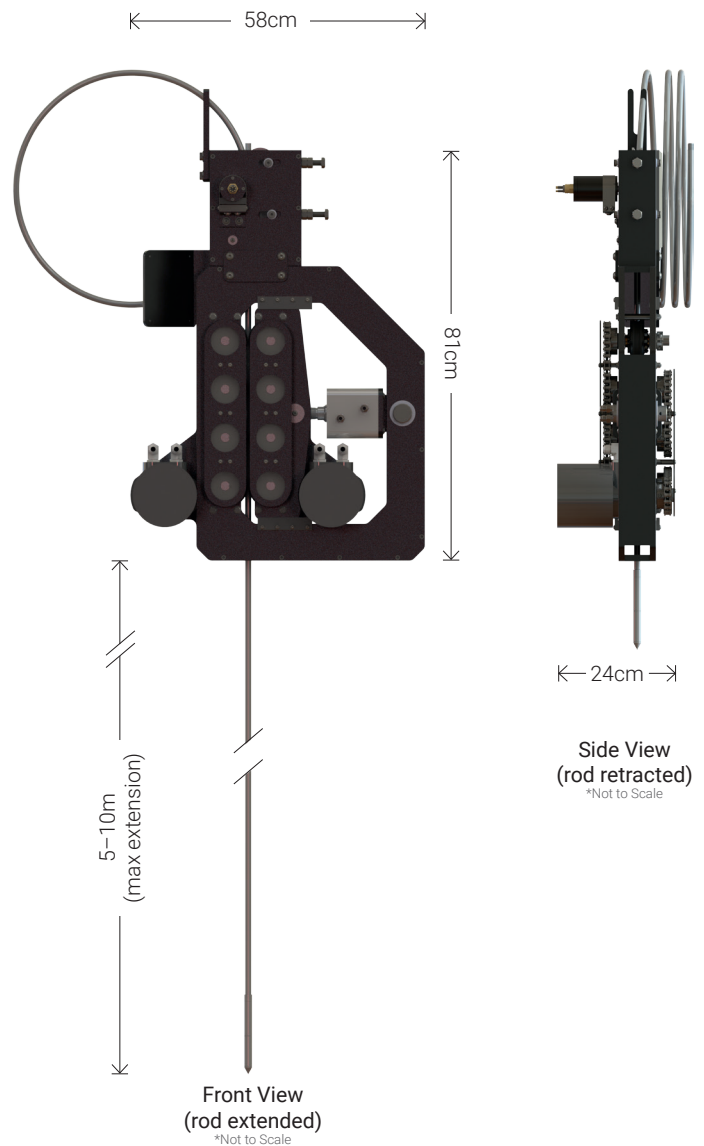
Fully Integrated Solution

The CR-CPT System can be delivered as a complete, compact, and powerful vehicle customized to your needs. Complete systems include frame, HPU, power and telemetry system, and topside control suite. Additionally, Wassoc can provide the handling system including winch, umbilical, and A-frame/LARS. A fully integrated vehicle is perfect for deployment from Ships Of Opportunity.

Host Vehicle Requirements

The CR-CPT system is ready to be integrated onto any subsea vehicle that meets the following minimum specifications:

Reactive Force.....	1000kg
Hydraulic Power.....	~5gpm at 1000psi
	(*Directional and flow control required)
Power Supply.....	12VDC
Comms.....	RS-485



Typical 2cm² Digital Cone
with tip and sleeve sense
*Not to Scale

600-10021-1.0