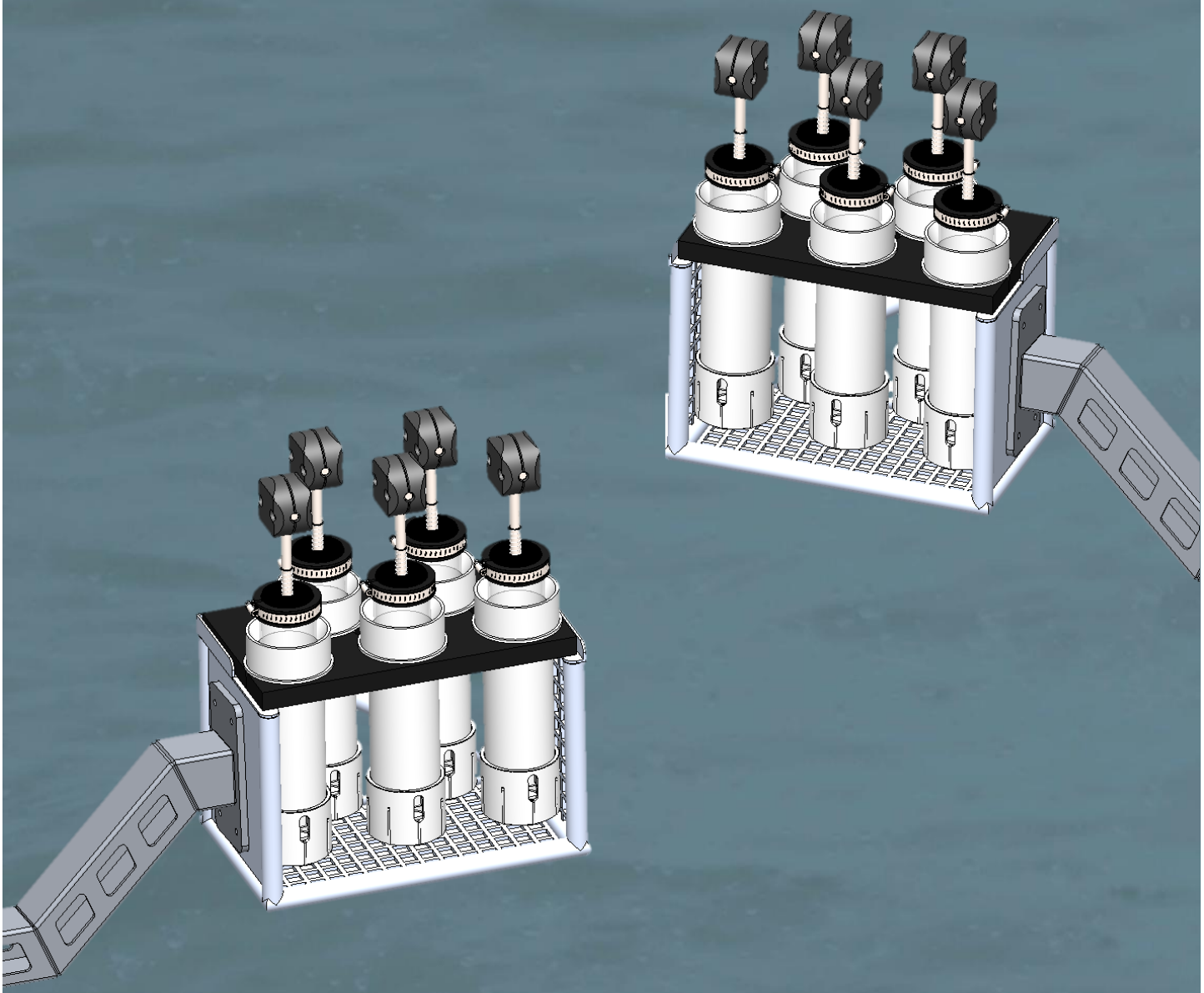
ROPOS

CANADIAN SCIENTIFIC SUBMERSIBLE FACILITY



Push Cores

ROPOS.COM

ROPOS
CANADIAN SCIENTIFIC
SUBMERSIBLE FACILITY

110-9865 West Saanich Road | P: 250.655.5096
North Saanich, BC, V8L 5Y8 | F: 250.655.5097
E: operations@ropos.com

Summary

The Push Core Sampler is a sampling tool designed for precise collection of undisturbed seabed cores. The system uses a clear tube that is driven into the sediment using an ROV manipulator, allowing stratified sediment and infauna to be preserved for laboratory analysis. A one-way check valve allows displaced water to escape while retaining the sample. Once extracted, the core is secured within a holster with a bottom sealing plug and returned to the surface for recovery and processing.

The ROV system is configured to carry a maximum of two push core "baskets," each mounted on dedicated port and starboard swing arms. Each basket holds five core tubes, providing a total capacity of ten push cores per dive. This configuration enables high-density, targeted sampling across multiple seabed locations within a single deployment.

Key Features

- ROV-manipulator compatible handle (fits multiple jaw types)
- One-way valve retains sediment, allows water escape
- Transparent tube enables visual inspection of samples
- Total capacity of up to 10 cores per dive
- Custom core lengths available
- Preserves sediment layering and infauna structure

Specifications

Sampling	
Core Inner Diameter (ID)	2-5/8" (67mm)
Standard Core Length*	14" (330mm)
Sampling Volume	0.26 gal (1L)
Extendable Range	Titan-4 Manipulator Range (see below)
Environmental	
Depth Rating	Full Ocean Depth
Mechanical	
Tube Material	Cellulose Acetate Butyrate (CAB)
Valve Body/Handle Material	Stainless Steel
Weight in Air	4.3 lbs (2.0 kg)
Weight in Water	3 lbs (1.4 kg)

*Other lengths available upon request