

## TUBE CORE



**APPLICATION:** Tube corers are used for obtaining sediment sample cores using a multi-function manipulator arm such as those used on manned submersibles and large remotely operated vehicles.

**DESCRIPTION:** The core barrel is constructed of 1/8" Lexan polycarbonate available in varying lengths and two diameters (6.4 cm and 8.3 cm I.D.) The barrel is split on one end for tight clamping onto the core top and beveled on the other end for easy insertion into sediment. The core top is constructed of PVC and vented to allow water to escape during insertion. A spring loaded, variable tension gasket seals the vents during retrieval to prevent sample loss. The tube core is easily grasped with the manipulator arm via a "T" shaped handle on top. The assembled tube core is stored in a PVC quiver, which has removable stoppers in the bottom to seal the sample in the core and facilitate easy removal of the sealed sample from the quiver on the surface. The weight of a 38-cm x 6.4-cm core with quiver in air/water is 3.2 kg (7 lbs.) and nearly 0 kg, respectively.