This newsletter highlights Rockland Scientific's Mircropods S, T, and EM. These include essential pressure case components manufactured by Rainhouse for high precision mechanical elements embedded in the ocean sensor instrumentation.

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<u>Rockland Scientific</u> specializes in designing and manufacturing sensors and software to study large bodies of water. Their mission is to help scientists understand climate change by creating tools to measure, research and analyze ocean mixing.

Ocean mixing is a significant factor in climate change. This has led Rockland Scientific to develop tools to assess characteristics such as temperature, flow speed, salt, and sound on oceans, lakes, and reservoirs. Measuring these characteristics is critical given that our oceans take billions of tonnes of CO2 from the atmosphere every year. To establish a comparison, this is is even more than what trees take.



Oceans' heat sequestration helps buffer the emissions from human activities. As CO2 concentration in the atmosphere increases, more of it gets dissolved on the water surface. Once in the water, the CO2 mixes down and starts to sink in cold waters when entering the deep sea. Here, the CO2 can stay held up for hundreds of years and slowly move back into the atmosphere.

Another consequence of this phenomenon is the creation of limestone. When oceans sequester CO2 and the carbon dioxide turns into calcite rocks, these can stay for millions of years and contribute to harming coral reefs and the ocean's ecosystem. Much like Rainhouse, Rockland Scientific works to strengthen the supply chain. They operate from Vancouver Island, and most of their products and processes happen locally. We share the same values of collaboration, and we are both on a mission to continue to grow locally and within the industry.

Rockland has also been re-investing in the company resulting in the commercialization of new products that take advantage of emerging technology. Now, Rockland's catalog of products, like the MicroPod, are integrated on a variety of autonomous ocean observation robots, which empower scientists to gather an unprecedented amount of information in previously inaccessible places.

At Rainhouse, we are proud to satisfy Rocklands Scientific's particular needs for parts and products that require high quality, specific tolerances, and high precision.

The following pages highlight Rockland Scientific's S, T, and EM MicroPod ocean sensor instruments, built with high precision pressure case components manufactured by Rainhouse.

