

# Sandvik Eris Control Panel

## WHAT

### PROJECT MANAGER:

Alastair Komus, Composites Innovation Centre

### INDUSTRY PARTNER:

Sandvik Mining

### MAJOR CONTRIBUTORS:

Eastside Industrial Coatings and Composites

## VISION

- To design a low-cost composite enclosure for the Eris Control Panel system that is used to remotely operate mining equipment

## SUCCESS

- A durable, leak-proof fibreglass enclosure prototype was developed.
- The cost of the new design is 20% of the original.
- There was a weight reduction of 12% from the original enclosure.
- The enclosure was made to house the current computer model as well as previous models, making it easy to replace damaged enclosures.

## PROJECT HIGHLIGHTS

- The enclosure is manufactured using RTM Lite processing, which allows for a smooth surface finish.
- The joints and fasteners were designed to create a waterproof enclosure, protecting the computer inside.
- The material selection was based on impact test results to ensure durability in the harsh mining environment.
- Rubber corners were included to increase impact resistance and the lifespan of the enclosure.
- A handle was incorporated to give the operator a sturdy way to carry the controller, reducing the amount of maintenance and repairs.

## VALUE

- The Sandvik Eris Control Panel is built and assembled by Manitoba companies including Eastside Industrial Coatings and Composites, Hi-Tec Industries, Dragan Technologies Inc. and State Industries.
- The reduced manufacturing cost allows the product to remain cost-competitive and increases profit margins.
- The waterproof and impact resistant design will give the computer system and the enclosure a longer lifespan, reducing future maintenance and repair costs.

