

# Mining

## Improve Quality Control and Extend Part Life with Additive Manufacturing

Design more efficient parts with consistent output and improved wear resistance.

### Customer Challenge

Abrasive solutions were shortening the life of metallic parts used in mining, and traditional welded assembly method made quality control difficult.

### The Solution

ExOne's 3D metal printing technology was used to print single-piece strainer plates.

### ExOne's Competitive Advantage

Additive manufacturing offers the ability to optimize part design; there is no cost for complexity. ExOne's material is extremely wear resistant and extends part life.

### About ExOne

ExOne offers digital part materialization using three-dimensional printing to create full-form parts directly from CAD data for a variety of applications. The technology is capable of a geometric complexity unachievable with conventional manufacturing methods.

Components produced by ExOne can reduce weight, integrate multi-piece assemblies, enhance product functionality and significantly reduce lead times for prototype and short-run production.

*ExOne operates facilities across the Americas, Europe and Asia.*



### Specifications

Customer: Withheld

Part Name: Strainer plates for decanter centrifuges

Batch Size: 24

Part Size: 4 x 6 inches

### Traditional Method

Imported welded multi-piece assemblies

### ExOne® Metal Printing Method

Total batch of single piece designs printed in one production run



CAD Design

To learn more, contact: [www.exone.com](http://www.exone.com)