Mining

Improve Quality Control and Extend Part Life with Additive Manufacturing

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

Customer Challenge
A 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