Ulterra

Extend Part Life & Reduce Costs with Additive Manufacturing

S4 abrasion resistance dramatically exceeds wear of conventional 4145 steel

Customer Challenge
Ulterra sought to extend the life of rotors and stators for down hole applications.

The Solution
ExOne’s 3D metal printing technology was used to print the components in an S4 stainless/bronze matrix.

ExOne’s Competitive Advantage
Additive manufacturing offers the ability to produce more wear-resistant parts at a lower cost than traditional methods.

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**: Ulterra
- **Part Name**: Stator
- **Batch Size**: 10
- **Part Size**: 3-5 inch

**Traditional Method**
- **Method**: Conventional machining
- **Cost**: $400-$500 each

**ExOne Metal Printing Method**
- **Cost**: $75-$150 each