

## Value engineering to optimize operational cost and time

### Customer Case Study – Power Generation

#### Customer

A world leader in high technology, diversified manufacturer and marketer of advanced power systems. The company employs over 190,700 people with yearly revenue accounting over \$53 billion and has a global presence.

#### Requirements

- To design and development a manually operated hydraulically controlled jig and fixture to overcome cost and time.
- The product to meet and match the accuracy levels specified in microns
- Architect the product ensuring setting time and skill levels requirement are minimal

#### QuEST approach

- Build a cross functional team to understand the operational requirement in detail
- Analyze and study the jig and fixture in operation
- Design to build activity that includes concept and detailed design, engineering analysis, manufacturing engineering support, vendor identification and program management

#### Results

- ~30% cost reduction on development
- Average setting time optimized to 7 minutes over 45 minutes
- Machined component within the specified levels of tolerance
- Minimized manual intervention

#### Impact

- Internal operational cost reduced by 50%

#### About QuEST

QuEST is a leading provider of outsourced engineering services and manufacturing. We provide support across the entire product life cycle from design and modeling through analysis, prototyping, automation, data documentation, manufacturing support, vendor management, and in-house precision machining. Through our Global Product Development framework leveraging our local presence and global reach, we enable companies in the aerospace, civil structures, industrial products, oil & gas, power generation, and transportation markets to cut product development costs, shorten lead times, extend capacity, and maximize engineering resources. QuEST has delivery centers in India, USA, and Italy, and a footprint in UK, Germany, China and Japan. For more information, please visit [www.quest-global.com](http://www.quest-global.com).