



Tailored engineering solutions to enhance equipment reliability and effectiveness

## Mobile Service Center – Reverse Engineering Capabilities

Sulzer is a global partner delivering reliable sustainable solutions for key applications. We offer repair and maintenance services from a single access point for turbines, compressors, pumps, generators and motors. By operating one of the largest service networks in the industry, we are close to our customers with more than 100 service locations worldwide.

### Resources and Facilities

Sulzer's comprehensive workshop facility in Mobile, Alabama is fully equipped to overhaul, repair and reverse-engineer all types of rotating machinery. The Reverse Engineering team utilize portable Coordinate Measuring Machine (CMM) along with the state of the art 3D solid modeling software for component geometry data acquisition to ensure timely onsite precision measurements for all types of pumps and components. Projects are completed by a highly experienced staff of engineers, project managers, sales managers, and technicians combined with a crew of dedicated craftsmen. We are qualified to measure pump parts and create drawings needed for production. This is carried out on both horizontal and vertical pumps under approved quality programs and procedures. The Reverse Engineering Department works closely with Sulzer Engineering where before and after drawings are submitted to ensure 100% accuracy.



### Before



66" Impeller for Dewatering Service

### After



25,000 lb. Volute Casing for Dry dock Service



Circulating Water Pump Impeller for Power Station



Fabricated Stainless Steel Suction Bell



### Reverse Engineering Procedures

- Create take-off drawings from customer supplied parts as a direct replacement (Like-in- Kind) of "as found" data using portable CMM and 3D software with accuracy to +/- 0.001".
- Pattern Construction or Prototype modeling: provide one use patterns and printed sand cores which can save money on low volume casting requirements, or provide wood patterns needed for multiple casting requirements.
- Casting: Work closely with the foundry to ensure a dimensionally correct casting. Inspect the first article casting for adequate machine stock and casting defects.
- Machining: Provide drawings with applicable finishes and tolerances from Engineering and Sulzer Quality standards.

### Benefit from our comprehensive service offering:

- Machine shop repair services (manufacture and repair)
- Welding services (buildup and fabrication)
- Reverse Engineering
- Qualified vendors in support of new and used parts
- Turnkey field services and field testing
- Complete inventory of bearings, wear rings, shafting and raw material to manufacture pump repair parts



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### About Sulzer

Sulzer provides cutting-edge services and solutions for rotating equipment dedicated to improving customers' processes and business performances. When pumps, turbines, compressors, generators, and motors are essential to operations, customers need a service partner they can trust. With our technically advanced and innovative solutions, we give our customers the assurance they need to focus on their operations. Customized solutions help to reduce maintenance time and cost. Our partners' business demands are ever increasing and changing but they can rely on our experts to provide the optimal solution to improve operational efficiency and reliability. We provide high-quality services at competitive prices and delivery times.