



PRO Services®

Professional Babbitting Services

Centrifugal Casting up to 100" O.D. Largest Capability
in the Industry



Engineered for life



PRO Services®

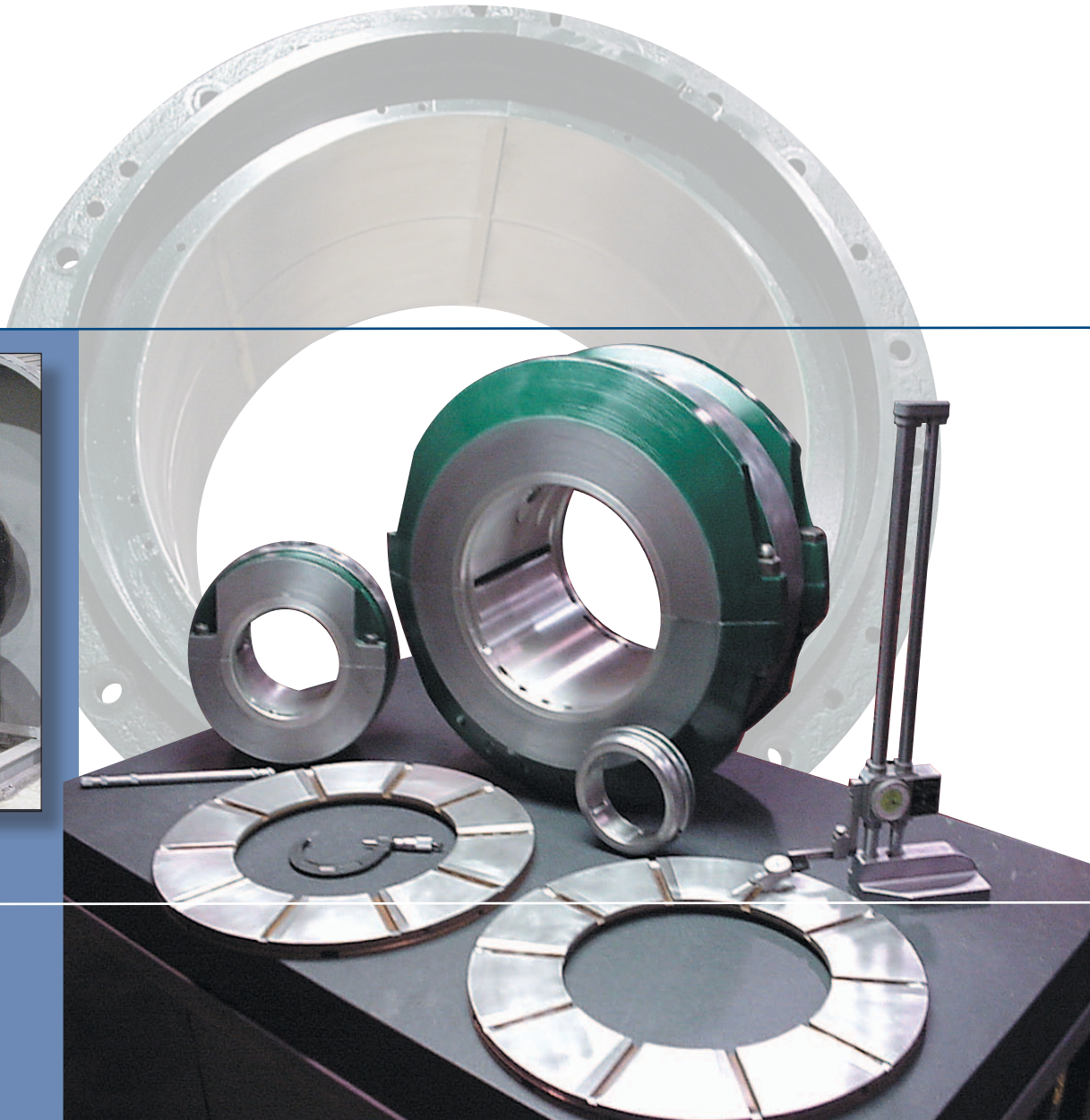
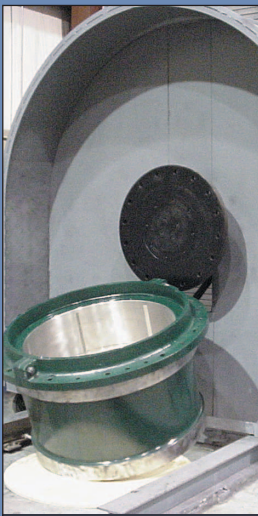
Professional Babbitting Services

Centrifugal Casting up to 100" O.D.; Largest Capability in the Industry

The most highly recommended repair procedure for large steam and hydro turbine generator equipment. Centrifugal casting is the method used to obtain maximum bond strength in the recasting process of Babbitt bearings. Other casting methods (Static casting, TIG and Puddling, and Metalizing) are available for:

- | | | |
|---------------------|------------------|----------------------|
| ■ Fan Bearings | ■ Motor Bearings | ■ Ball Mill Bearings |
| ■ Tilt Pad Bearings | ■ Thrust Shoes | ■ Pillow Blocks |
| ■ Hydrogen Seals | | |

We can manufacture new bearings, as well, to OEM specifications.



Re-Babbitting Services

Located in Rayong, our Thailand PRO Services® Center is able to provide unparalleled re-Babbitting services.

Capabilities include:

- Experienced engineering and production staff.
- Equipped with the newest, precision equipment.
- Upgrades that enhance performance and service life.
- Rapid turnaround. Repairs are performed quickly and professionally.

Superior Methods of Repair

We use leading technology and repair practices. We will not only repair your equipment but also ***increase the average life of your Babbitted bearing.***

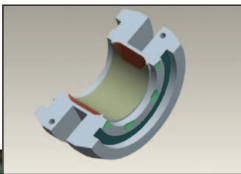
The following repair methods are available:

- Conversions from lead to tin based alloys for bonding and increased life.
- Centrifugal casting as opposed to static pour for better bonding.
- Improved machining practice to help eliminate the need for hand scraping.

Total Quality

After Babbitt bearings have been reconditioned, they are quality checked for:

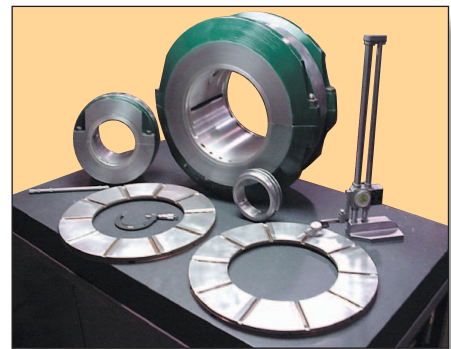
- Proper shaft clearances.
- Oil relief and oil holes sized per specifications.
- Concentricity.
- Ultrasonic testing of Babbitt bond to housing.



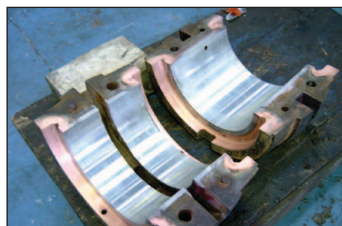
Experienced Engineering



Spin Fixture to handle 120" O.D. up to 10,000 lbs.



Large steam turbine bearings re-Babbitted per OEM specifications



Conversion from lead to tin based alloys



Ultrasonic Testing



PRO Services®

Extending Equipment Life...

Product Repair

- Service Center Repair
- Turnkey Repair / Installation
- Field Service
- Emergency Service

Reliability Improvement

- Predictive Condition Monitoring
- Root Cause Failure Analysis
- Machine and System Assessment
- Engineered Upgrades
- Training

Optimization of Assets

- Inventory Management
- Replacement / Exchange
- Maintenance Management
- Contract Management



PumpSmart®

Improving Plant Profitability

Our products leverage over 150 years of process machinery knowledge and provide enhanced control and continuous monitoring yielding increased UPTIME and decreased MAINTENANCE and ENERGY cost. The ProSmart predictive monitoring system identifies and solves problems before they impact production. Our PumpSmart control products provide advanced process control, valuable process knowledge without the need for additional sensors, enhanced reliability through failure prevention, and significantly lower energy costs - up to 65%. The 3196 *i-FRAME™* provides early warning of improper operation before catastrophic failure through daily monitoring of thrust bearing vibration and temperature. LED's provide operators a visual indicator of equipment health.

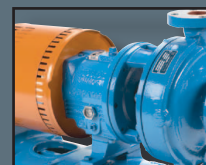
Plant Performance Services (PPS)

ITT PPS can typically return savings of up to 25% annually by realizing some of the following:

- Longer equipment life
- Lower maintenance costs
- Lower energy costs
- Improved technical support
- Improved quality of repairs
- Reduced turnaround time
- Better trained in-house staff
- Improved safety
- Increased equipment efficiency
- Reduced parts / inventory costs



ProSmart®



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