

Seal & Bearing Components

Engineered Repairs & Services

Hydraulic Control Components

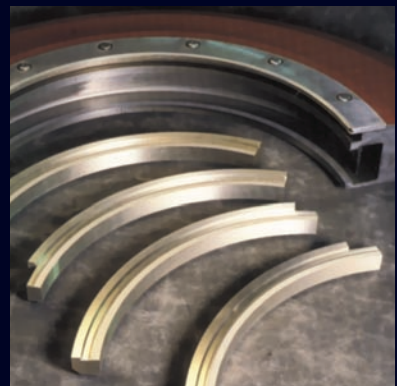
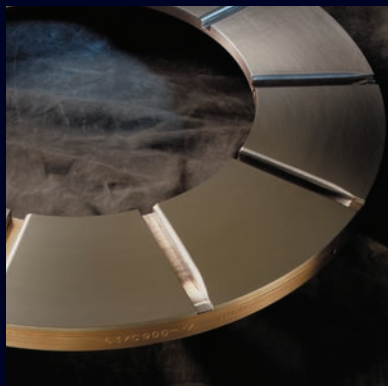
Critical Alloy Inventories

Premium Quality & Reliability



RENEWAL PARTS MAINTENANCE

One Call One Source Powerful Solutions





Manufacturing & Refurbishment Demand Attention to Detail

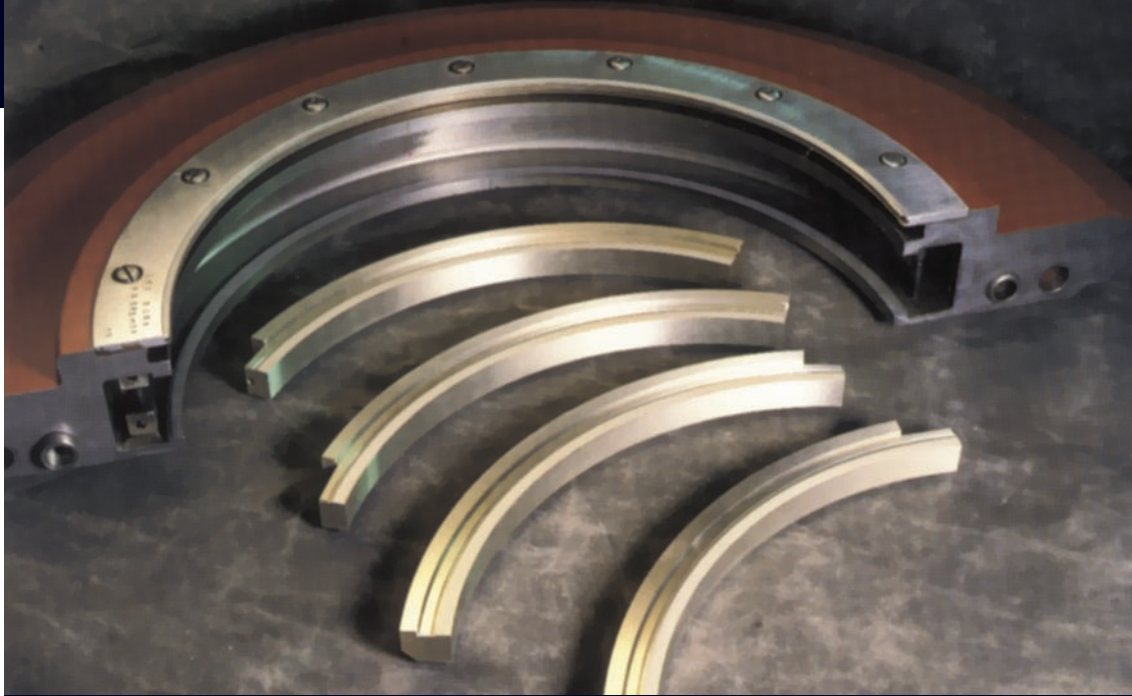
Turbine-generator hydrogen gas leaks, seal oil leaks and rub-induced synchronous shaft vibrations can affect the integrity of the hydrogen seal assembly.

RPM's recognizes the significance of axial, parallel, perpendicular and flatness tolerances required for efficient hydrogen seal operation. Complete housing reconditioning at RPM will assure the proper fit of assembly components and greatly reduce the man hours traditionally associated with fitting the components while in the field.



During the manufacturing of bearing and seal components, precision design parameters that account for friction, expansion and heat dissipation necessitate the use of custom alloys. RPM maintains an extensive inventory of these aluminum, bronze and copper alloys in a wide range of sizes. Our goal is to address your need for high-quality, time-critical components in rapid and cost-effective manner. RPM is your single-source provider for bearing and seal components.

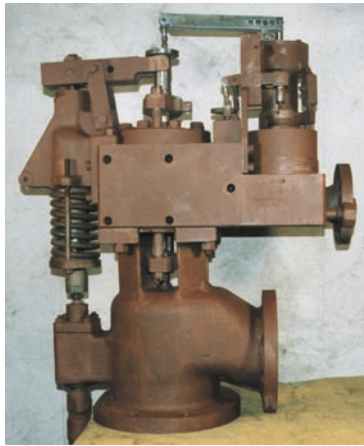
**Parts Services Repairs
Phone: 440-946-0082**





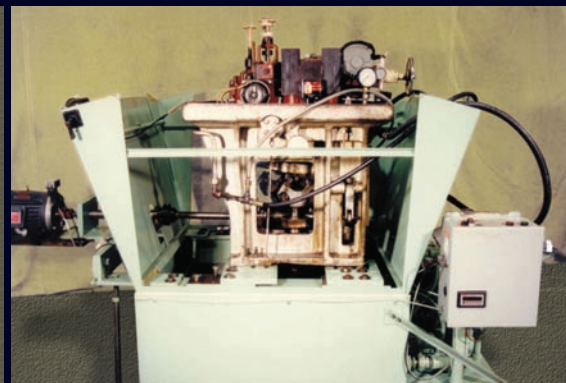
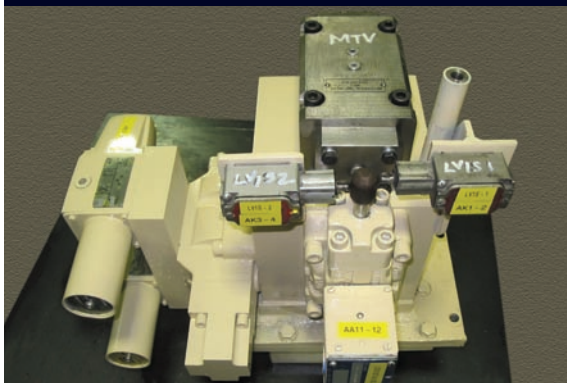
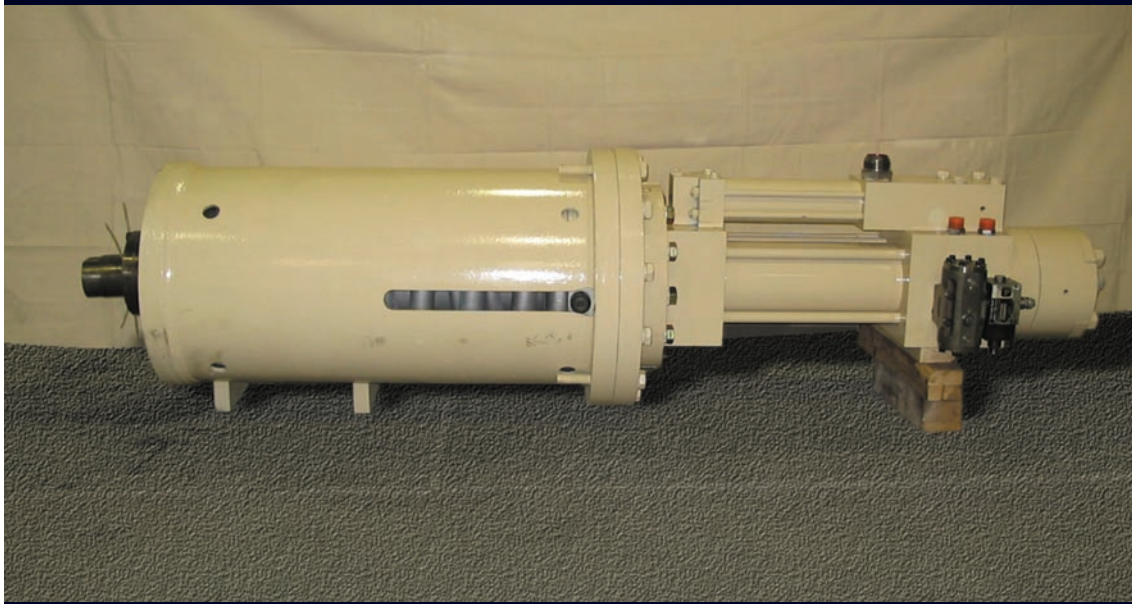
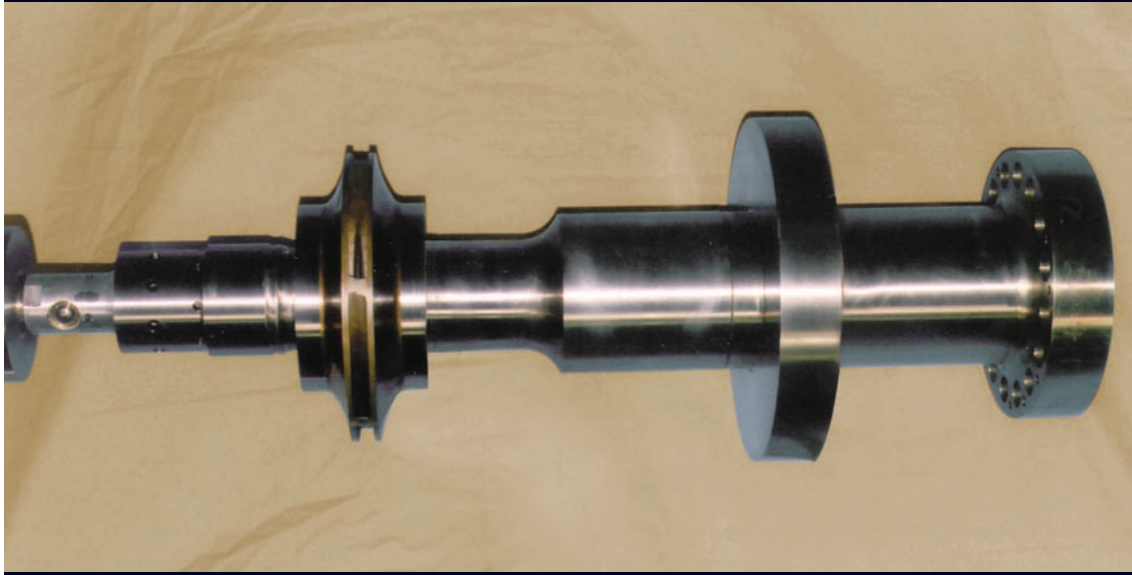
“Hydraulic Test Verification Assures Minimal Field Adjustments”

Field adjustment of a mechanical overspeed governor can be a risky and costly exercise. Sending an overspeed governor to RPM for bench testing is considered a cost effective form of risk management by many repeat customers. RPM also offers complete extension shaft service which includes dynamic balancing and the repair or replacement of pump and seal ring components.



Central load dispatch centers and modern DCS plant controls have placed new demands on turbine MHC governor and ancillary component response.

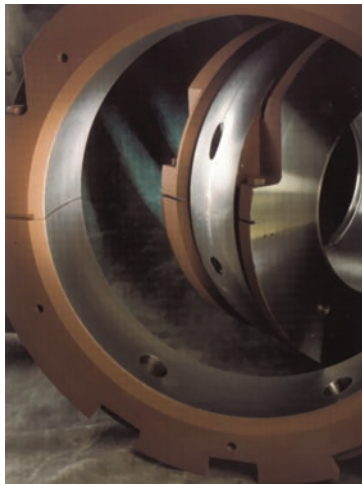
RPM provides performance test verification of hydraulic control components to greatly reduce the need for field adjustments during start up.





Trouble shooting the source of differential thrust bearing temperatures can be frustrating and costly especially if load reduction action is required. RPM has earned the trust of many customers to perform precise and correct tapered land thrust bearing repairs.

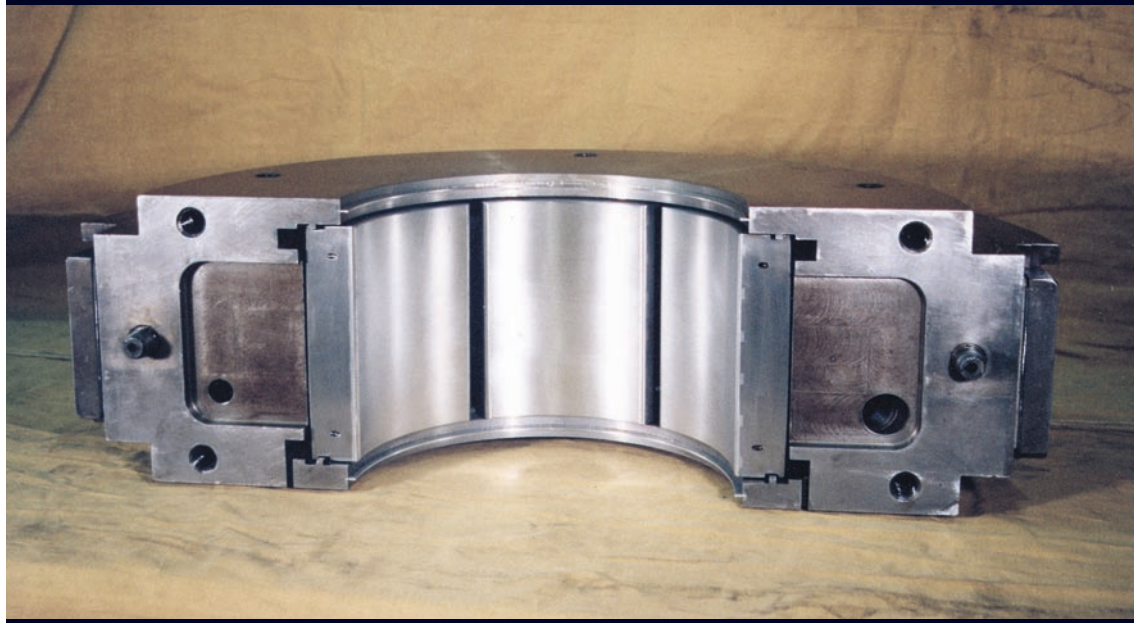
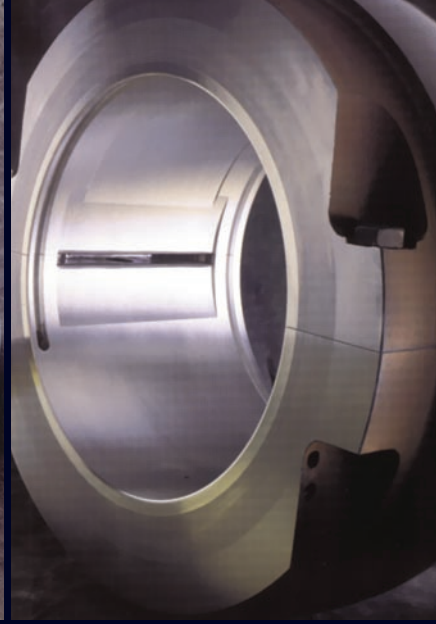
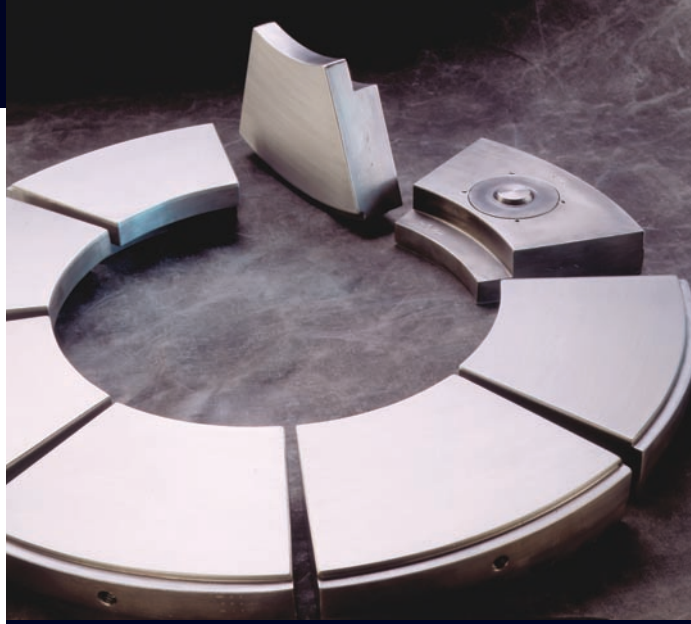
Loyal repeat RPM customers have expressed the need to shorten outage durations and reduce overall outage costs. In response RPM has developed a level of service design to substantially reduce the manpower traditionally associated with the field fitting of tilt pad journal and thrust bearings. RPM's "Attention to Detail" focuses beyond the primary babbitt wear surface to the secondary support components.



Complete Restoration is the Key to Avoiding Issues Associated with Mounting

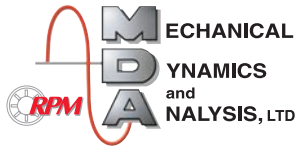
The list of potential conditions contributing to unstable vibration trends can be endless. RPM has helped many customers eliminate the variable of bearing mounting mechanical looseness by performing complete restoration of the spherical ball – ring fit.

Parts Services Repairs
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Renewal Parts Maintenance Has Proudly Served the Power Generation Industry for More than Two Decades. Our Dedication to Quality Has Earned RPM the Reputation as "The Industry's Leading Tapered Land Thrust Bearing Specialists."

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Renewal Parts Maintenance was founded in 1984 on a firm foundation of turbine generator maintenance technical competency. This competency and the constructive input of loyal repeat customers provide the basis for insightful questions and answers which ultimately define a customized level of service beyond the norm.

RPM is a proud division of Mechanical Dynamics and Analysis, a company committed to providing a single source service solution for turbine-generator owners. The employees of RPM would like to extend a sincere thank you to all repeat customers for their loyal patronage and constructive input over the years.

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BEARINGS & SEALS

Manufacture/Repair

- Thrust Bearings
 Tapered Land, Tilting Pad
- Hydrogen Seals
- Journal Bearings
 Fixed Bore, Tilting Pad
- Oil Deflectors
- Water Seals
- Oil Seals

Spherical Mounting Restoration

- Journal bearings up to a 60" outside diameter

Centrifugal Casting

- Journal bearings to 80" outside diameter

Quality Control Program

- ISO 9000 Guidelines
- Ultrasonic Testing
- Dye Penetration Testing
- Mag Particle Testing
- Megger Testing
- Babbitt Certification

HYDRAULIC CONTROL COMPONENTS

Functional Test / Repair / Manufacture

- Complete Mechanical Governor Table
 Speed / Load Changer
 Load Limiter
 Speed Relay
 Flyweight Governor
 Initial Pressure Regulator
 Pilot Valve & Bushing
 Worm Gear & Wheel

Mechanical Overspeed Governor

Steam Seal Regulator

Vacuum Trip

Master Trip Valve

Power Actuators

Servos

Spring Cans

Extension Shaft

INSTANT INFORMATION RESOURCE

RPM understands the VALUE OF TIME, especially when critical decisions must be made without the luxury of time to research historical data. RPM maintains an electronic document storage library of customer service records dating back to 1984. Repeat customers rely heavily on this information resource when trouble shooting problems, tracking performance trends and planning preventative maintenance. Feel free to call us anytime, the answer to your question is normally obtained with a few key strokes.



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