



BEARINGS

RMT Specializes in analysis, design, and manufacture of precision engineered fluid film bearings for high performance turbomachinery. Our design and manufacturing facility is ISO 9001 Certified and our inspectors are SNT-TC-1A level II certified for Non-Destructive Testing. Our bearings are 100% Visual, Ultrasonic and Dye Penetrant inspected. This ensures that our Babbitt quality is second to none.

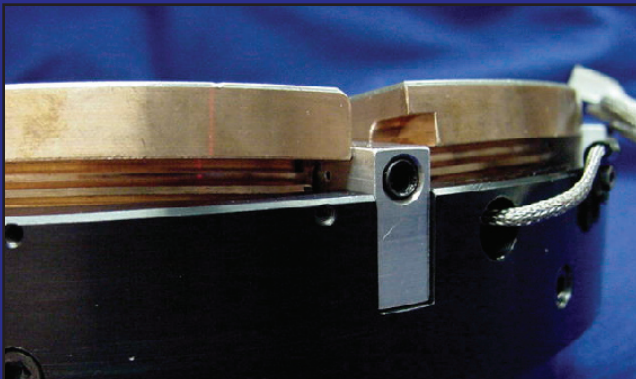
Standard & Custom Built Tilting Pad Bearings

- ▶ Custom designs for any application, as small as 1/4" diameter to 15" diameter bearing bore.
- ▶ Base materials include steel, bronze and copper.
- ▶ Precision ground and hand lapped spherical pivots—
 - ▷ Ensure perfect pad-to-journal alignment, preventing pad edge loading due to misalignment.
 - ▷ Maintain high pivot stiffness.
 - ▷ Provide low pivot stresses for minimal pivot wear and prevention of fretting.
- ▶ Thin babbitted bronze pads—
 - ▷ Offer greater babbitt strength for higher dynamic loads and longer life.
- ▶ Precision machined pad bores for accurate pad preload— achieve specified bearing dynamic stiffness and damping properties for improved rotordynamics.
- ▶ Tilting Pad Journal and Thrust Bearings - Reduced Temperature Design with RMT Patented Spray-Bar Blockers[®] and Patented Behind-the-Pad By-Pass Cooling[®] with Chrome Copper Pads.
 - ▷ Reduce bearing operating temperatures by as much as 20%.

RMT'S REDUCED TEMPERATURE TILTING PAD THRUST BEARING WITH PATENTED BY-PASS COOLING[®]

RMT is at the leading edge of Thrust bearing design and manufacturing. Our double spherically pivoted load leveling system in conjunction with By-Pass Cooling[®] and with Chrome Copper pads offers unsurpassed load and speed capability. The spherically pivoted design allows unparalleled pivot stiffness and eliminates fretting wear. The result: no more machinery shut downs due to high axial travel and no need to replace bearings at short intervals.

Our patented By-Pass Cooling[®] design uses inlet oil to cool the back and sides of our Chrome Copper pads. This reduces bearing temperatures, allowing higher loads and higher speeds than anyone in the industry. The result: higher performance turbomachinery.



RMT Thrust Bearing With Patented By-Pass Cooling[®]



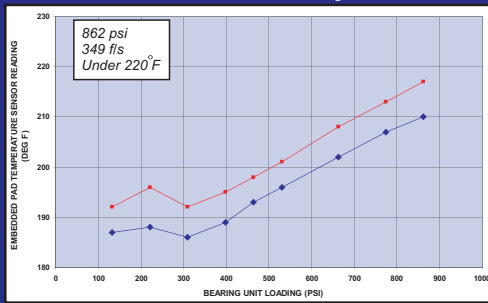
RMT Double Spherically Pivoted Design

Experience ▲ Precision ▲ Quality

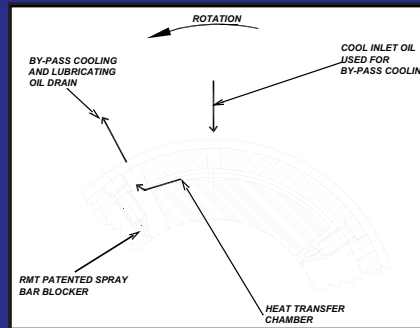
Standard & Custom Built Tilting Pad Journal Bearings

RMT's PATENTED BEHIND-THE-PAD BY-PASS COOLING[®] DESIGN

RMT's 5.0" Ultra Bearing Test

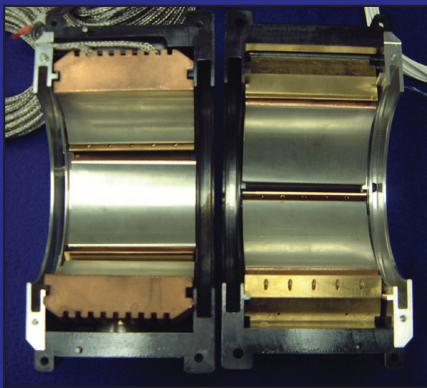


Journal Bearing Unit Loads up to 860 psi and surface velocities up to 350 f/s.



By-Pass Cooling[®] oil removes heat from the copper pads and is directed to the drain by the Spray-Bar Blocker[®]

RMT's ULTRA-BEARING[®] FOR CENTRIFUGAL COMPRESSOR APPLICATIONS



With Chrome Copper pads, Spray-Bar Blockers[®] and By-Pass Cooling[®], RMT can design high speed centrifugal compressor bearings to operate under 190°F for surface velocities over 300 f/s. This allows the compressor manufacturer to design larger journal diameters for increased overhang stiffness. The result: higher second and third rotor critical speeds for API rotordynamic specification compliance.

FLUID FILM JOURNAL BEARINGS

Babbitted plain journal, multi-lobe, multi-taper, pressure dam, and tilting pad spherically pivoted type bearings.

THRUST BEARINGS

Taper land and self equalizing tilting pad thrust bearings.

ULTRA-BEARINGS[®] FOR HIGH LOAD, HIGH-SPEED CRITICAL APPLICATIONS
patented designs to reduce temperature, increase life and reduce losses.

ROTORDYNAMIC ANALYSES

SQUEEZE FILM DAMPERS, LABYRINTH SEALS, FLOATING RING SEALS, CARBON SEALS, AND BRUSH SEALS FOR ANY APPLICATION.

Rotating Machinery Technology Inc.
4181 Bolivar Rd
Wellsville, NY 14895
585-593-3700 | Fax 585-593-2693
www.rmt-inc.com

