

WE KNOW



THE DRILL

**MINIATURE & INSTRUMENT
BEARINGS FOR
DENTAL APPLICATIONS**



BEHIND THE EIGHT BALL



When it comes to ball bearings you want to get behind our 8-ball—it carries a higher load and lasts longer than 7-ball designs.

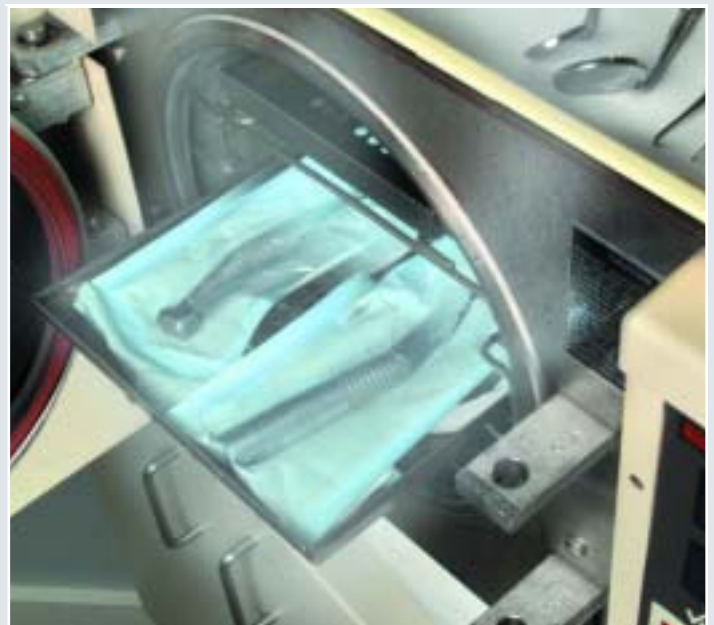
New Hampshire Ball Bearings, Inc., has been a pioneer in developing sophisticated miniature & instrument bearings for dental applications for over 50 years. Our 8-ball design, with its superior stability and balance characteristics, minimizes misalignment and can carry a higher load. We also were the first to offer the dental industry an inner-ring cutaway design (in which the retainer is outer-ring land piloted) combined with an autoclavable retainer. This has become the industry standard. Plus, we continue to meet exacting specifications for precision internal geometry, which translates into optimal running accuracy and longer life.

ROUNDNESS CONTROL TO .000008"

BRING ON THE HEAT

Using a proprietary polyamideimide material, NHBB developed the first fully autoclavable retainer.

Ask dentists what they're looking for in a handpiece, and most of them will emphasize smooth operation and long life. So the high heat generated by autoclave sterilization presents an ongoing challenge to bearing manufacturers. Our proprietary polyamideimide retainer—the first of its kind—has been autoclaved over 1,000 times in lab tests without significant performance degradation. We also offer other advanced retainer material options, including phenolic and TEFLON®/phenolic combinations. And, using the advanced R&D capabilities of our new test lab, we are continually researching new materials such as PDS and PDE that could further extend bearing life.



SMOOTH OPERATOR

Better steel, ultra-smooth raceway surface finish, and exacting geometric control keep our bearings quiet at speeds up to 500,000 RPM.

No single specification can ensure a quiet, smooth-running dental bearing. Only by ensuring that NHBB bearings meet all the characteristics above (and more) are we able to pass our 100% dynamic noise and vibration testing. In addition, we offer a 440C HIP (Micro Melt®) steel alloy with fine grain structure, uniform distribution, and good dispersion of primary carbides to deliver high strength and low noise. Ongoing improvements in finishes and materials promise even smoother operation in the years ahead.



MINIMUM BALL STANDARD *Grade 3*

OPEN WIDE



We have a super-precision bearing for every dental application.

NHBB offers you an extensive selection of miniature & instrument bearings. We are part of the world's largest M&I bearing manufacturer, and work closely with our business partners, providing design assistance and prototype development for special applications. In this way, we are able to focus on accommodating your particular size, design, and performance specifications. This includes choosing the optimum bearing design in order to meet your unique operating parameters. Please feel free to consult with us early in your design phase to learn about our latest developments in bearing technology.

WORLD CLASS



We just completed a new facility, built exclusively for M&I bearings, that features a Class 1000 Clean Room.

Our newly renovated facility in Chatsworth, CA reflects an ongoing commitment to the dental bearing market. It features the latest bearing-manufacturing technology—including a Class 1000 Clean Room (Class 10 at the bench)—which is 10 times better than the current industry standard. NHBB's custom-designed machines deliver high volumes at very competitive prices while maintaining strict quality controls. In fact, our bearings have been specified in more FDA-approved applications than any other company's bearings. The Precision Division's ISO-9002 approval and our new facility ensure we will maintain our competitive edge.

OPERATIONAL TOLERANCES EXCEEDING **ABEC 9**

FORGET ABOUT IT

Our Lube-No-More™ grease pack minimizes maintenance while still ensuring long life.

Bearing lubrication is essential for long life—but presents challenges all its own. Traditional lubrication methods are cumbersome, and take time away from more productive work. That's why we offer our custom Lube-No-More grease pack. It can stand up to hundreds of sterilizations before any relubrication is necessary. This ongoing, steady lubrication also reduces noise and extends bearing life and operating comfort by minimizing vibration. We offer an extensive array of lubrication options and are continually working with industry leaders to develop even better ones.



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