IBSCO

MEDICAL | DENTAL

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FREQUENTLY ASKED QUESTIONS:

1. WHAT ARE THE BENEFITS OF RADIAL AND ANGULAR CONTACT BALL BEARINGS? RADIAL BALL BEARINGS ARE MORE CONVENIENT TO USE BECAUSE THEY MAY BE INSTALLED AND AXIALLY LOADED FROM EITHER SIDE. ANGULAR CONTACT BALL BEARINGS PERFORM BETTER AT HIGHER SPEEDS AND OPERATE LONGER, ON AVERAGE, THAN RADIAL BEARINGS. ANGULAR CONTACT BEARINGS CAN ONLY BE AXIALLY LOADED FROM ONE SIDE.

2. WHAT IS THE ADVANTAGE OF USING A HYBRID CERAMIC BALL BEARING(INCLUDES HARDENED STEEL RINGS AND CERAMIC BALLS)? HYBRID CERAMIC BALL BEARING RUN COOLER AND EXTEND BEARING LIFE.

CERAMIC BALLS ARE APPROXIMATELY 60% LIGHTER THAN STEEL BALLS. THE LIGHTER CERAMIC BALL-SET GENERATES LESS CENTRIFUGAL FORCE WHEN OPERATING AT SUPER-HIGH SPEEDS, WHICH MINIMIZES WEAR.

CERAMIC BALLS ARE HARDER THAN STEEL BALLS, EXTERNAL CONTAMINANTS WILL NOT DAMAGE THEM CAUSING FAILURE. ALSO, A HYBRID CERAMIC IS BETTER IN LOW-LUBRICATION CONDITIONS.

3.HOW DO YOU CLEAN AND LUBRICATE DENTAL HANDPIECES? IBSCO SUGGEST THAT YOUR CUSTOMERS FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR CLEANING AND LUBRICATING THEIR DENTAL HANDPIECES AFTER EACH PATIENT-USE AND AUTOCLAVING.

4. WHAT IS A "LUBE-FREE/MAINTENANCE-FREE" BEARING"? A "LUBE-FREE" BEARING HAS BEEN PRE-LUBRICATED WITH A SPECIFIED AMOUNT OF SPECIAL GREASE; IT DOES NOT REQUIRE INTERMITTENT LUBRICATION WITH OIL.

5. ABEC IS THE ACRONYM FOR "ANNULAR BEARING ENGINEERS' COMMITTEE". THEY DETERMINE STANDARDS FOR BEARINGS. ABEC IS THE ACRONYM FOR "ANNULAR BEARING ENGINEERS' COMMITTEE". THEY DETERMINES STANDARDS FOR BEARINGS.

AN ABEC SCALE CLASSIFIES THE ACCURACY AND TOLERANCES FOR BEARINGS. ABEC RATING SCALES ARE: ABEC 1, 3, 5, 7 AND 9.

A LARGER ABEC NUMBER DENOTES A HIGHER PRECISION LEVEL.

IBSCO'S HIGH-SPEED DENTAL BEARINGS ALL MEET A MINIMUM TOLERANCE OF ABEC 7.

IBSCO SUGGESTS THAT YOU FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR CLEANING AND LUBRICATING THEIR DENTAL HANDPIECES AFTER EACH PATIENT USE AND AUTOCLAVING.

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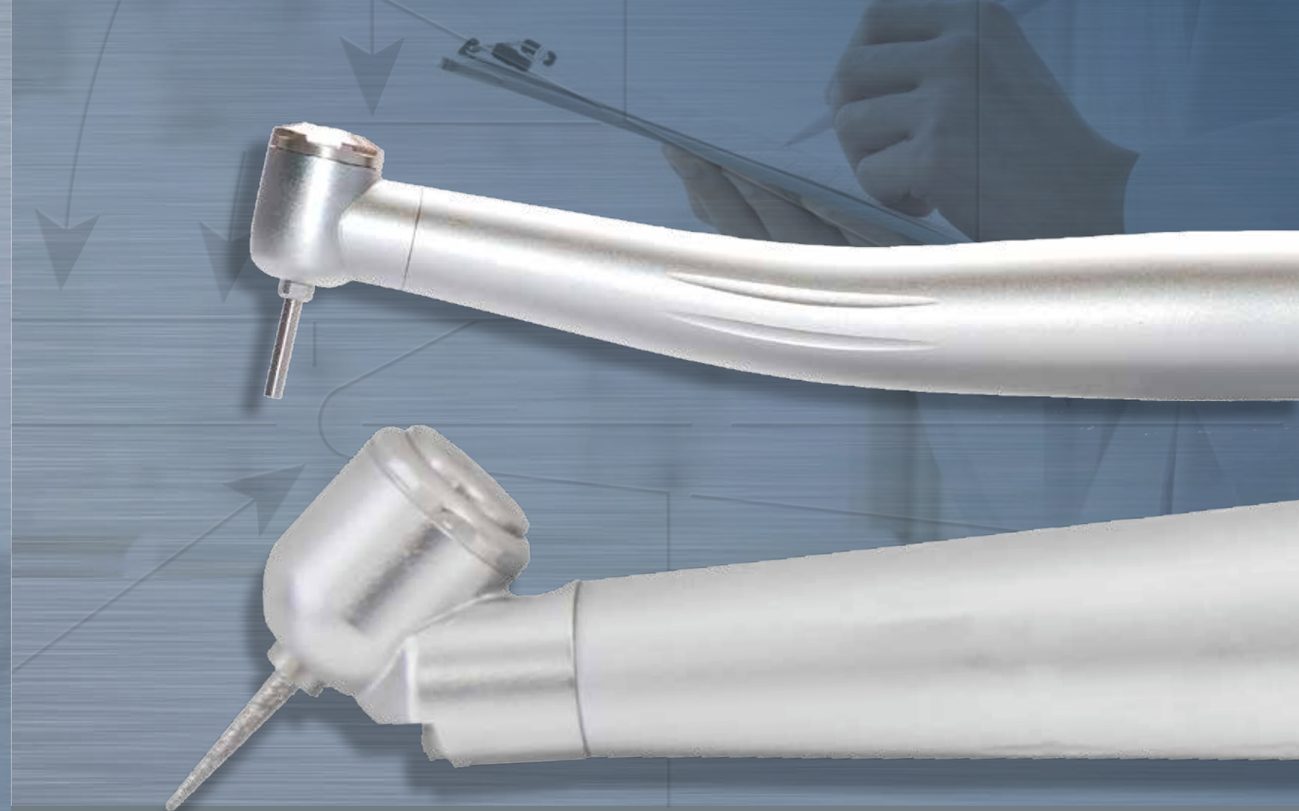
Medical & Dental

Custom Solutions for Advanced Applications



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BIEN AIR	CASTELLINI	DABI ATLANTE	KAVO
LARES	MICRO-AIRE	MIDWEST	MORITA
NSK	PALISADE	SIEMENS	SIRONA
STAR DENTAL	STRYKER	W&H	YOSHIDA

IBSCO Product Characteristics:

High quality, unmatched performance and precise fit

High-performance specialty ball bearings and assemblies to meet virtually any unique and demanding requirement

Precise internal geometries, optimized roundness and ultra smooth surface finishes

Smooth, fast, quiet and long-lasting

IBSCO Speciality Bearings & Assemblies

- Angular-contact and radial-contact types
- Extended life and performance
- Economical ceramic components - Balls & Rings
- High-Speed up to - 500K rpm
- Spindle assemblies
- Many support repeated exposure to an autoclave
- Highly finished ABEC 7/P4 precision rings, rolling elements, raceways and cage materials.
- Machined cages - Phenolic, Polyamide-imide, Silver coated, Full type, Slug, Torlon®, Delrin®, Meldin®
- Turbine assemblies

Delrin® is a registered trademark of DuPont
Meldin® is a trademark of Saint-Gobain
Torlon® is a registered trademark of Solvay Advanced Polymers

PRODUCT FEATURES & CAPABILITIES

- High-speed steel and hybrid ceramic ball alloys
- AISI 440C stainless steel
- Custom Ball Materials & Coatings
- Ball materials and coatings
- Silicon Nitride (ceramic) balls - 60% lighter than Stainless Steel
- Silver coated balls
- Machined retainer designs using high-performance materials
- Phenolic, Torlon®, linen, paper and polyamide-imides
- Surface hardening coatings
- Diamond-Like Carbon (DLC)
- Tungsten Carbon Carbide (tungsten-DLC or WCC)
- Integral Shields and Seals

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