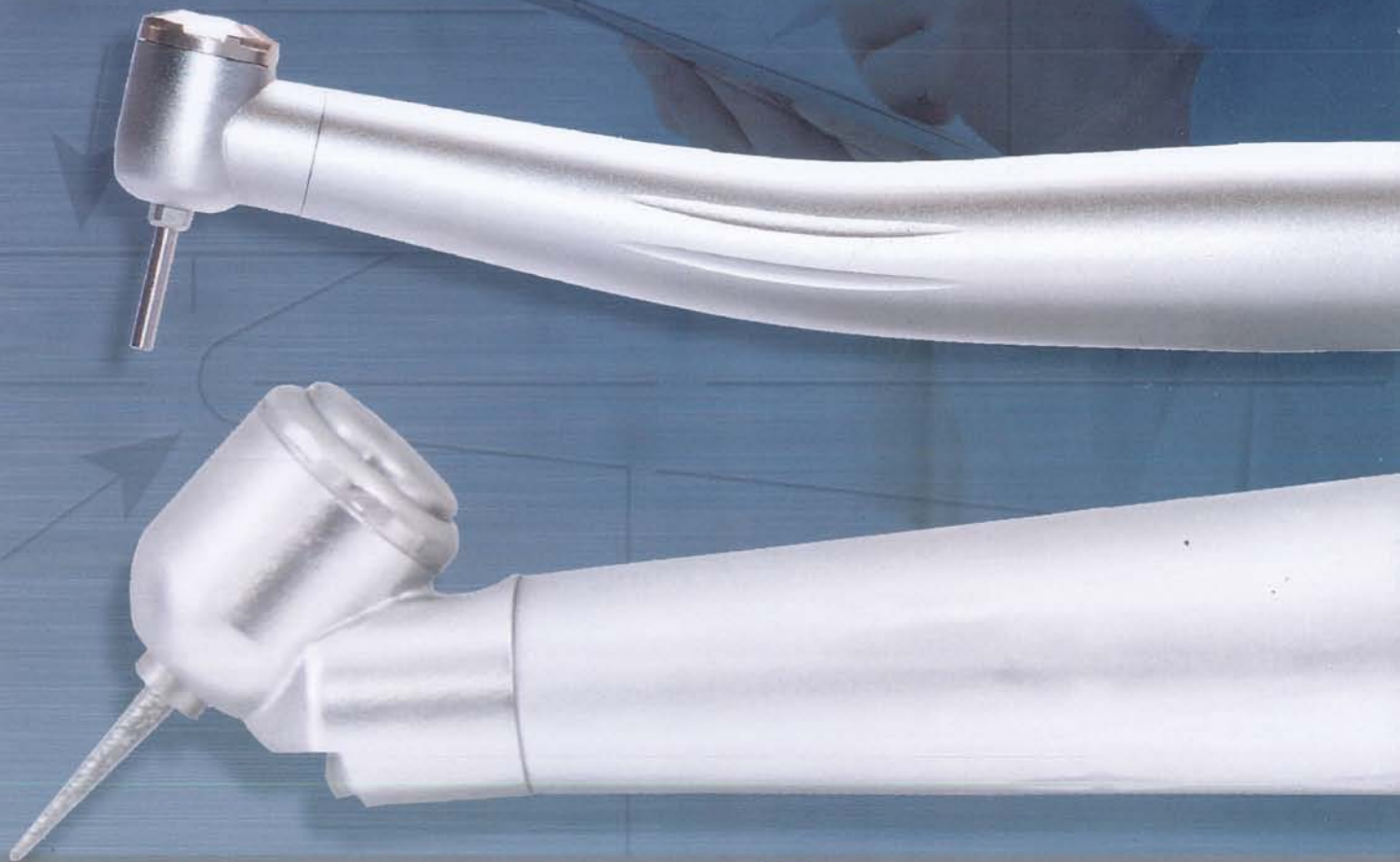


# IBSCO

## Medical & Dental

Custom Solutions for Advanced Applications



(800) 231-6480 | [www.IBSCO.com](http://www.IBSCO.com)

# Medical & Dental

## WE SUPPORT THE FOLLOWING DEVICE & HANDPIECE BRANDS:

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, Delrin<sup>®</sup>, Meldin<sup>®</sup>
- Turbine assemblies

Delrin<sup>®</sup> is a registered trademark of DuPont  
Meldin<sup>®</sup> is a trademark of Saint-Gobain



## PRODUCT FEATURES & CAPABILITIES

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







INTERCONTINENTAL BEARING SUPPLY COMPANY

MEDICAL | DENTAL

(800) 231-6480 | [www.IBSCO.com](http://www.IBSCO.com) | 17711 Telge Road • Cypress, TX 77429

## 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 BEARINGS 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, THUS REDUCING BEARING FAILURE. ALSO, A HYBRID CERAMIC IS BETTER IN LOW-LUBRICATION CONDITIONS.

### 3. HOW DO YOU CLEAN AND LUBRICATE DENTAL HANDPIECES?

IBSCO SUGGESTS FOLLOWING THE HANDPIECE MANUFACTURER'S RECOMMENDATIONS FOR CLEANING AND LUBRICATING 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. WHAT DOES "ABEC RATING" MEAN?

ABEC IS THE ACRONYM FOR "ANNULAR BEARING ENGINEERS' COMMITTEE". THEY DETERMINE 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.

### 6. WHAT IS THE BENEFIT TO CUSTOMERS WHO BUY FROM AUTHORIZED DISTRIBUTORS OF NHBB/MYONIC?

CUSTOMERS WHO BUY FROM AN AUTHORIZED DISTRIBUTOR WILL RECEIVE TOP-NOTCH TECHNICAL SUPPORT ALONG WITH A PASS THROUGH OF THE MANUFACTURER'S WARRANTY. IBSCO EMPLOYS THEIR OWN TECHNICAL EXPERTS, PLUS THEY HAVE DIRECT ACCESS TO THE MANUFACTURER'S ENGINEERING STAFF.