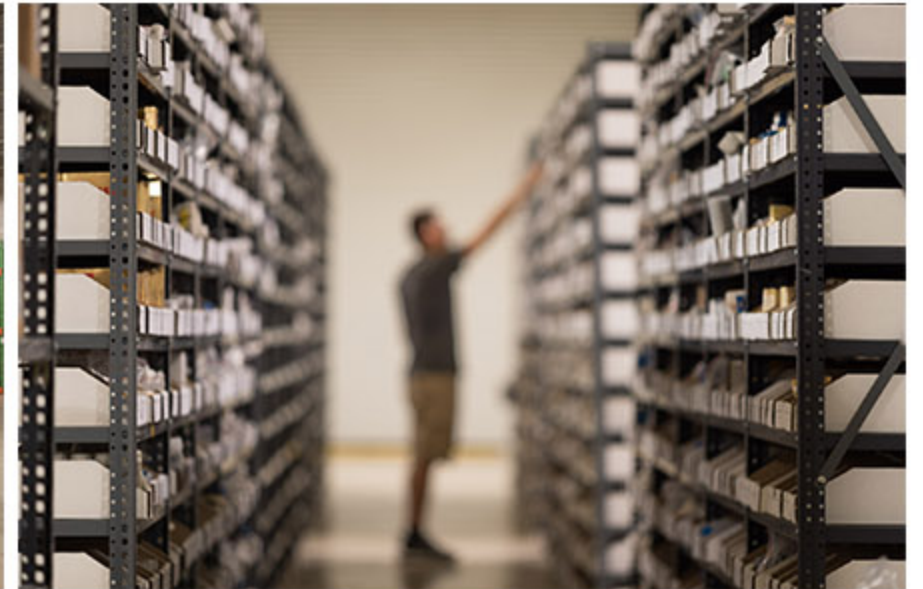


ABOUT BOCA BEARING COMPANY

- ***FOUNDED IN 1987 BY ALLEN BAUM***
- ***SPECIALTY INVENTORY OF MINIATURE AND HARD TO FIND BEARINGS***
- ***DEEP GROOVE, ONE WAY, NEEDLE, MACHINE TOOL, EMQ, MOUNTED UNITS***
- ***CERAMIC HYBRID, FULL CERAMIC, STAINLESS STEEL, THERMOPLASTIC***
- ***9000 DIFFERENT BEARING SIZES, OVER 15 MILLION ITEMS IN STOCK***



CERAMIC HYBRID BEARINGS

Steel Races and Ceramic Balls

BALL MATERIAL

- Silicon Nitride (SiN_4)
- Alumina Oxide (Al_2O_3)
- Zirconia Oxide (ZrO_2)
- Silicon Carbide (SiC)

BENEFITS

- High loads, high speeds and extreme temperatures are factors
- Increased bearing life and decreased down time
- Minimal need for lubrication
- No cold welding between ceramic balls and races

APPLICATIONS

- Any application that requires higher speeds, lower friction and longer life are ideal for ceramic hybrid bearings.
- Electric motors, aerospace applications, performance racing vehicles, laboratory equipment, under water



FULL CERAMIC BEARINGS

Races and balls that are made entirely of ceramic material

BEARING MATERIAL

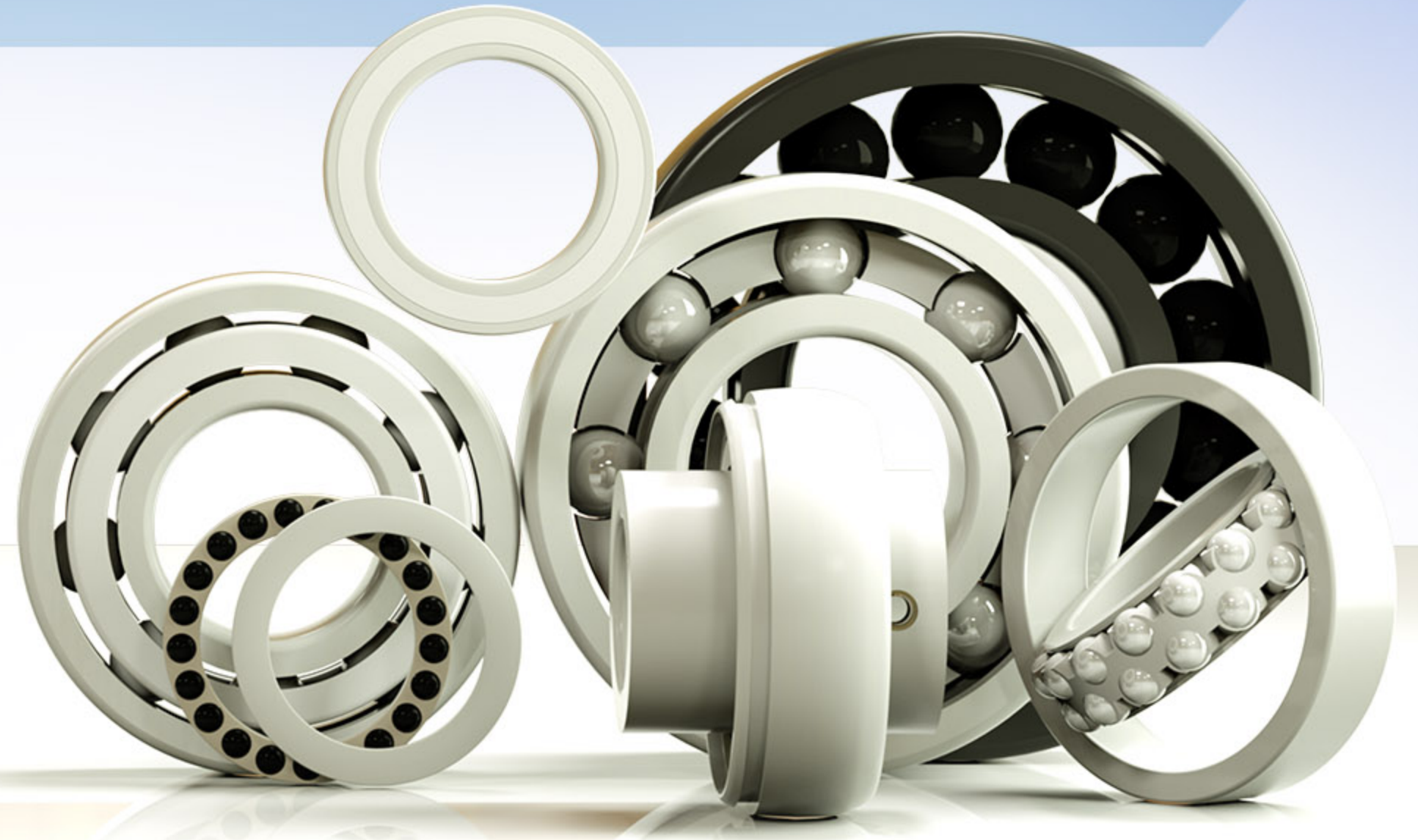
- Silicon Nitride (SiN_4)
- Alumina Oxide (Al_2O_3)
- Zirconia Oxide (ZrO_2)
- Silicon Carbide (SiC)

BENEFITS

- Will not corrode or rust
- 2/3 the weight of steel
- Resistant to resist acids, alkali, blood, salt and water
- Extremely low coefficient of friction and thermal expansion
- Lower friction results in less energy consumed
- Operating Temperature from as low as $(-85^{\circ}C)$ up to $(+ 900^{\circ}C)$

APPLICATIONS

- Any extreme environment that requires non-corrosive, non-conductive or non-magnetic bearings is ideal for full ceramic bearings
- Chemical baths, vacuum environments, semiconductor manufacturing, food processing industries, radiotherapy, MRI, patient positioning systems



APPLICATIONS FOR CERAMIC

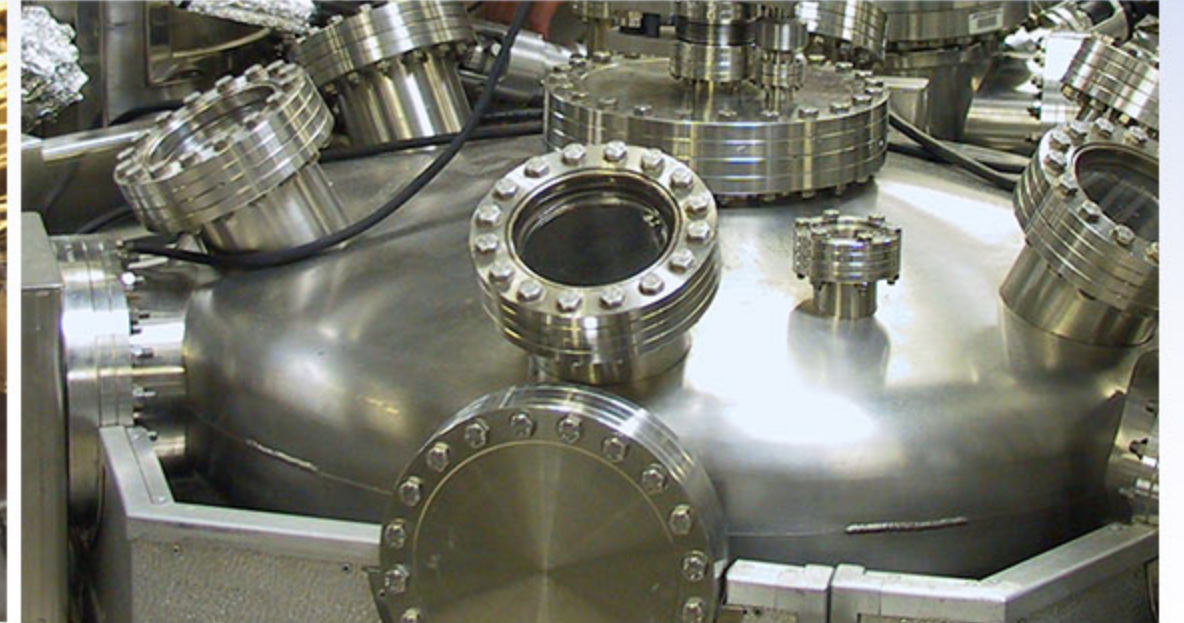
*Semiconductors/
Advanced Manufacturing*



Photonics



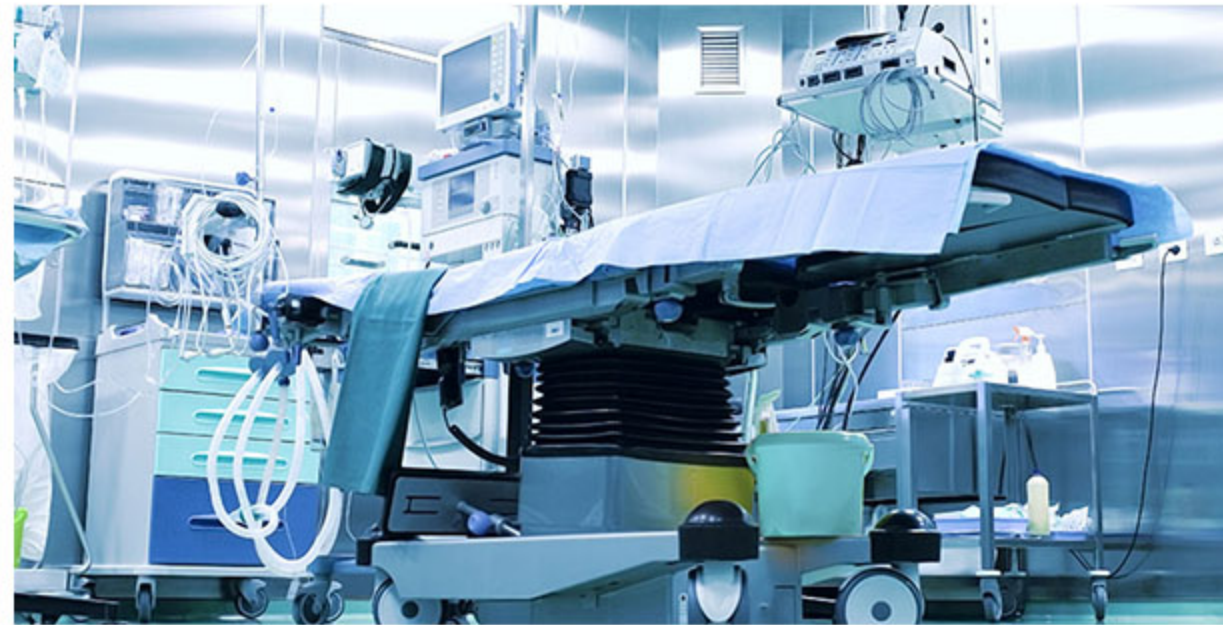
Ultra High Vacuum



Water/Fluid Handling



Medical Device



Food Processing

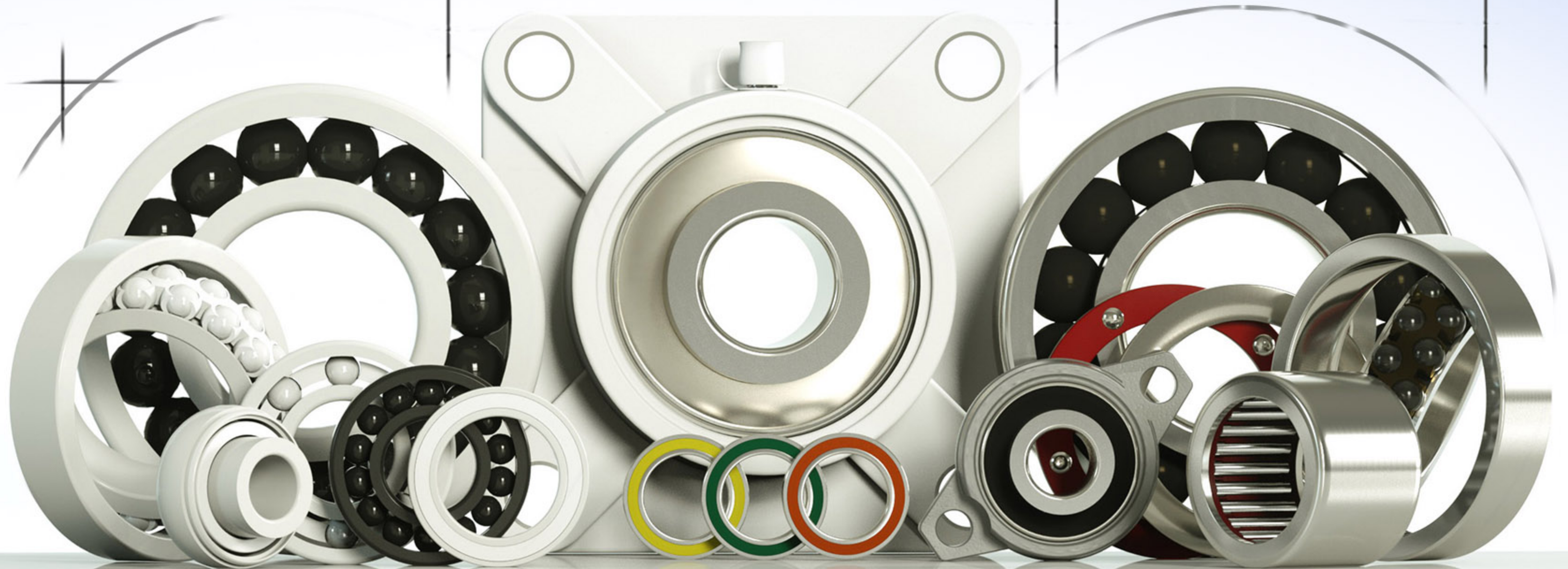


INDUSTRIAL LUBRICATION

- *Kyodo Yushi, Molykote, Krytox Lubricants*
- *LSL Solid Graphite Lubricant*
- *FDA approved*
- *Ultra Dry Lubricant coating*



FROM CONCEPT ▶ TO DESIGN ▶ TO DEVELOPMENT



SHORT RUN

SAMPLE ORDERS

QUICK TURNAROUND