

Global Aerospace Products Manufacturing

Bearings, Fasteners, Machined Parts, Advanced Solutions



Bringing Excellence Together

NMB



 myonic

CEROBEAR®



MinebeaMitsumi Aerospace is committed to delivering the right products and solutions, no matter where in the world you are. Whether you need a high quality standard product, a customized assembly, or a truly innovative solution, we can help you take your project from idea to successful launch.

Our international team of sales and product specialists serves as your expert connection to the highly developed engineering, manufacturing, and new product development capabilities of our worldwide network of aerospace manufacturers. Before you begin your next project, contact MinebeaMitsumi Aerospace, the global brand that's bringing excellence together.





NORTH AMERICA

- 1** Peterborough, NH:
MinebeaMitsumi Aerospace Main Office
NHBB Corporate Headquarters
NHBB HiTech Division
- 2** Laconia, NH:
NHBB Astro Division
NHBB New Product Development Center
(NPDC)
- 3** Chatsworth, CA:
NHBB Precision Division
myonic USA (sales div.)
- 4** Churubusco, IN:
C&A Tool Engineering, Inc.

EUROPE

- 5** Lincoln, UK:
NMB-Minebea UK Ltd.
- 6** Leutkirch, Germany:
myonic GmbH
- 7** Roznov, Czech Republic:
myonic s.r.o.
- 8** Herzogenrath, Germany:
CEROBEAR GmbH
- 9** Paris, France:
Mach Aero Bretagne SAS

ASIA

- 10** Karuizawa, Japan:
Rod End Division
- 11** Fujisawa, Japan:
Fastener Division
- 12** Tokyo, Japan:
Minebea Precision
- 13** Lop Buri, Thailand:
Rodend Bearing Division
- 14** Bangalore, India:
Mach Aero Components Pvt. Ltd.

Industry Knowledge and Expertise

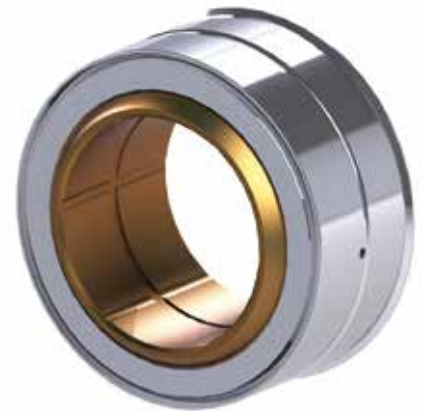
We design and manufacture solutions for critical applications on everything from small business jets to wide body commercial airliners, from light turbine helicopters to heavy lift rotorcraft, and from space launch vehicles to satellites. Listed below are some of the many applications where our products are found. Contact sales to learn more.



Cylindrical Roller Bearing
Flexure cage outer ring
High speed vibration control



Rolling Element Rod End Bearing
Heavy load capacity
Precise low friction motion



Large Trunnion Bearing
Wear resistant ball material
High load capacity

AIRFRAME FLIGHT CONTROL AND FUSELAGE

Ailerons
Elevators
Flaps and Slats
High Lift Assemblies
Instruments
Rudders
Spoilers
Stabilizers

AUXILIARY MECHANICAL SYSTEMS

Air Mgt. Systems
APU's
De-Ice Valves
Hydraulic Pumps
Nacelle Blowers
RAM Air Turbines
Starter Generators
Thrust Reversers

ENGINES GEARBOXES AND TRANSMISSIONS

Engine Mounts
Gearboxes
Hot Air Valves
Main Shafts
Pylon Mounts
Spigot Assemblies
Tower Shafts
Variable Stator Vanes

LANDING GEAR- MAIN AND NOSE

Braces
Downlocks
Pintles
Retraction Actuators
Shock Struts
Steering Actuators
Trunnions



Self-Lubricating Rod End
INVINSYS® patented liner system
Extremely long life



Hybrid Tapered Roller Bearing
Duplex design with ceramic rollers
High reliability



Custom Machined Part
Light weight alloy
Corrosion resistant coating

**ROTORCRAFT
AND VTOL**

- Blade Retention
- Damper Actuators
- Pitch Control
- Rotor Heads
- Scissor Drives
- Swash Plates

**SPACECRAFT
AND SATELLITES**

- Cargo Capsules
- Crew Transport
Vehicles
- Launch Vehicles
- Orbital Satellites
- Planetary Probes

CAD Images

The products shown are just a few of the many customized, high-value aerospace solutions available through MinebeaMitsumi Aerospace.



Angular Contact Ball Bearing
High temperature alloy
Silicon nitride balls



Custom Pin Fastener
High strength and toughness
Corrosion resistance



Blisk Aero Engine Component
High temperature alloy
Tightly toleranced machining

ROD END DIVISION
Karuzawa, Japan

Rod end and spherical bearings, ball bore sizes up to 5.0 in. (127mm) ID, bushings, ball bearing rod ends, roller bearings, machined parts, next-up assemblies

ISO 9001/JIS Q 9100
ISO 14001/JIS Q 14001
Nadcap: AC7101, AC7102, AC7108, AC7114, AC7117

FASTENER DIVISION
Fujisawa, Japan

High strength titanium bolts, fasteners, metal sleeve bearings, machined parts up to 15.7 in. (400mm) OD for turning and 33.4 in. (850mm) for machining

ISO 9001/JIS Q 9100
Boeing D1-4426
ISO 14001/JIS Q 14001
Nadcap: AC7102, AC7108, AC7114

RODEND BEARING DIV.
Lop Buri, Thailand

Rod end and spherical bearings, machined parts, next-up assemblies

ISO 9001/JIS Q 9100
ISO 14001/JIS Q 14001
Nadcap: AC7101, AC7102, AC7108, AC7114

MINEBEA PRECISION
Tokyo, Japan

Precision machined components for air-frames, aero engines, satellites, electronically controlled equipment, and oil hydraulic equipment

ISO 9001/JIS Q 9100

NMB-MINEBEA UK
Lincoln, UK

Large specialized spherical bearings and bushings featuring titanium alloys and special coatings, ball bore sizes up to 7.09 in. (180mm) ID

ISO 9001/EN9100
Nadcap: AC7101, AC7102, AC7108, AC7114, AC7117

MACH AERO
Paris, France
Bangalore, India

Spherical bearings, rod ends and bushings up to 11.8 in. (300mm) OD, machined parts up to 13.8 in. (350mm), next-up assemblies, hydraulic components, custom solutions, maintenance

ISO 9001/AS9100/
JIS Q 9100/EN9100
FR.145.471
(maintenance)
FR.21G.0201
Nadcap: AC7114

New Product Development

Your products of tomorrow will require the adoption of new technologies as well as dramatic improvements in existing components. As a group, we are dedicated to creating solutions across our entire product offering that deliver transformative performance improvements. Key focus areas include:

- Bearing wear sensor systems
- Self-lubricating liner technology
- Hybrid bearings and ceramic components
- New manufacturing methods and technologies - including additive manufacturing
- New materials



Stator Segment
Additive manufacturing process
Prototyping and production

For more information, contact the nearest sales office
(see back page).

NHBB ASTRO DIV.
Laconia, NH
USA

Rod ends, spherical bearings and bushings up to 22 in. OD, custom solutions with complex features, next-up assemblies

ISO 9001/AS9100
Boeing D6-82479
ISO 14001
Nadcap: AC7102, AC7108, AC7114, AC7118

NHBB HITECH DIV.
Peterborough, NH
USA

Ball and cylindrical roller bearings up to 12 in. (305mm) OD, complex bearing assemblies

ISO 9001/AS9100
Boeing D6-82479
ISO 14001
Nadcap: AC7102, AC7108, AC7114

NHBB PRECISION DIV.
Chatsworth, CA
USA

Precision ball bearings up to 3 in. (76mm) OD, complex bearing assemblies, airframe control ball bearings

ISO 9001/AS9100
Boeing D6-82479
ISO 14001
Nadcap: AC7102, AC7108

MYONIC
Leutkirch, Germany
Roznov, Czech Rep.

High precision miniature ball bearings, duplex and super duplex ball bearings, thrust bearings, precision mechanical subassemblies

DIN ISO 9001
DIN ISO 14001

CEROBEAR
Herzogenrath,
Germany

Hybrid and all-ceramic ball and roller bearings up to 20 in. (508mm) OD, highly customized solutions

DIN ISO 9001/EN9100
DIN ISO 14001
BS OHSAS 18001

C&A
Churubusco, IN
USA

Custom complex high-precision machining, additive manufacturing, contract manufacturing, tooling and project engineering

ISO 9001/AS9100
ISO/TS 16949
ISO 13485
Nadcap: AC7116

Sales Offices

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 C&A.....catool.com
 Mach Aero.....machaero.com
 myonic.....myonic.com
 New Hampshire Ball Bearings (NHBB).....nhbb.com
 NMB Minebea UK.....nmb-minebea.co.uk
 Minebea Precision.....shiono-precision.com