



Simply A Better Solution.

Frequently Asked Questions

Q. What is Bal Seal Engineering, Inc.?

A. Bal Seal Engineering, Inc. is a global provider of custom engineered sealing, connecting and energizing solutions for Original Equipment Manufacturers (OEMs).

Q. What is the story behind the company?

A. In 1951, Pete Balsells, an aerospace design engineer, recognized the need for self-energized seals for rocket booster cryogenics. Relying on his formal education in engineering, problem-solving skills and inventor's zeal, Balsells formulated a solution that incorporated his understanding of the benefits of polytetrafluoroethylene's (PTFE) mechanical properties for sealing purposes with his vision of a spring that would provide a uniform and controlled force in such a way to enhance sealing at cryogenic temperatures. This combination resulted in the creation of the canted-coil spring-energized PTFE seal, commonly known as the "Bal Seal". Bal Seal Engineering was founded in 1958, based on Balsells' original breakthrough. Since that time, the company has enjoyed significant growth and continued innovation within a variety of industries.

Q. Where would you typically find Bal Seal product?

A. Bal Seal products service a variety of industries that include, but are not limited to, medical, aerospace/defense, energy, automotive and industrial. These products can be found in service at the bottom of the ocean, in outer space, in implanted medical devices and everywhere in between. The capability to combine unique spring technology with material science enables Bal Seal to provide solutions suitable for harsh and demanding environments.

Q. What specific products does Bal Seal develop?

A. Bal Seal designs and manufactures custom engineered canted-coil™ springs and seals that are used in spring energized seals, connecting/latching/holding applications and energizing solutions. The product/services offering is divided into three areas:

- Canted-Coil™ Spring Solutions
 - Bal Contact™ Electrical Contacts
 - Bal Latch™ Precision Mechanical Connectors
 - Bal Shield™ Grounding/Shielding
 - Bal Spring™
- PTFE Sprint-Energized Seals
 - Reciprocating Seals
 - Rotary Seals – ideal for temperature and pressure/velocity (pv) applications
 - Static Seals
- Professional Services
 - Custom Engineering Services

Q. What industries does Bal Seal serve?

A. Bal Seal serves the following industries:

- Aerospace/Defense
- Automotive
- Energy

