Industrial Solutions
AirBorn is an employee owned company whose core business is engineering and manufacturing specialized connectors and electronic components for OEMs worldwide. We serve customers across many industries including: Industrial, Commercial Air, Medical, Military/Defense, and Space Exploration. From deep sea to deep space, and all industrial venues in between, our innovative interconnect, value-add, and box build solutions are chosen by leading industrial device companies all over the world to operate their most critical systems, in the most demanding environments.

Model-to-Market®
Customers can leverage our design and manufacturing expertise throughout the entire product development process. From Conceptual Design, Prototyping, Pilot-Runs, and Mass Production, our teams work efficiently to cut down your program’s time to market.

We design and manufacture rugged and reliable components that meet the requirements for industrial applications. Downtime means lost profits, and we at AirBorn provide unmatched quality as our #1 priority so you can rest assured of continued uptime.
Industrial Equipment Engineering & Lab Services

AirBorn employs 50+ degreed engineers to assist at all points along the product development cycle. AirBorn utilizes an A2LA accredited* laboratory to test against the highest standards imaginable to ensure our products stand up to the rigors of strenuous industrial applications. We analyze and measure component performance against temperature fluctuation, vibration, and intense shock — just to name a few. All of our components and assemblies are designed to withstand continual usage and temperature spikes inherent in hard-driven industrial applications.

When your goal is to design unmatched excellence, quality, and reliability into your product — count on AirBorn’s Model-to-Market® solutions to ensure you have AirBorn quality in your end product.

- Contact Engagement & Separation Forces
- Contact Retention/Wire Retention
- Dielectric Withstanding Voltage (Sea Level & Altitude)
- Durability
- Insert Retention
- Insulation Resistance
- Low Signal Level Contact Resistance
- Mating & Unmating Force
- Resistance to Soldering Heat
- Shock
- Solderability
- Temperature Cycling
- Vibration
- X-Ray/CT imaging & inspection

*Not all testing listed above is included in our A2LA Scope of Accreditation. Please consult A2LA Certificate #4132.01 for a list of accredited tests.
Industrial Device Design & Manufacturing

Our Model-to-Market® service means we take our customer’s most rudimentary product idea and foster it through design, development, testing, and mass production. Our extensive post-build testing certifies your product consistently performs to expectations and is built to take on the challenges of highly-repetitive industrial applications.

The processes we have in place to safeguard the quality of your build include:

- Cable & harness integration
- Detailed material planning & logistics management
- Multi-plant capabilities accommodate volume orders & on-time delivery
- Procurement & inspection of standard/custom parts
- UL & CSA certified manufacturing facilities

We fabricate complete builds for our customers in the industrial machinery market space. Each box-build is manufactured to withstand extended usage.
Rugged & Reliable Connectors

When working in the world of industrial machinery and heavy equipment, only the most rugged and reliable interconnects will do. Only connectors that withstand the around-the-clock usage, repetition, heat, and vibration of an industrial environment will make the grade. At AirBorn, dependability begins where the pin and sockets meet: the contact system. Our contact systems utilize multiple contact points — a key differentiating factor between truly rugged and reliable connectors and less reliable, “commercial-grade” connectors.

Styles & Configurations
We have a wide variety of form factors to choose from including rectangular, micro-D, nano-D, circular, interposers, and strip connectors. Multiple termination options are available for board, flex circuit, panel, and cable installations. Our wide range of body materials and mounting and mating hardware options allow customers to configure the exact connector for your design — over 100 million possible configurations!

High-Speed, High-Vibration & Temperature Extremes
Design engineers are looking for interconnects that accommodate high-speed data rates while enduring while reliably operating under high-vibration environments, under fluctuating and often extreme temperatures.

*Series 360 circular connectors are currently available only in North America.
Flexible Circuit Assemblies

AirBorn designs and manufactures flexible circuit assemblies; ideal for use where weight, space, consistency and 3D routing are important factors. We can manufacture to your design or ours, leveraging years of flex design experience and expertise. We produce flex assemblies to work with any type of connector and electronic component.
Custom Cable Assemblies

AirBorn is much more than a “connector company”. While connectors are at our core, we also design and manufacture custom cable assemblies. We can manufacture to your unique requirements or collaborate on a design from the start. We accommodate all wire types: copper, fiber, RF, ribbon, braiding, and more — terminated with any connector, whether it’s AirBorn’s or not.

We’re also proud to offer our FOCuS® brand of Rugged Active Optical Cables (RAOC®). Built on our proven, high-speed verSI connector platform, RAOC® exemplifies all the benefits of fiber with the ease & reliability of copper.

Cable, Flex, or PCB Assembly?

Not sure which option is best for your application? Give us a call. We design and manufacture cable assemblies, flex circuit assemblies, and printed circuit board assemblies, and will provide impartial advice on which is best for your specific design requirements.