

Electrical

Component Manufacturing



Precision stamping, forming, welding, injection molding, and assembly for electrical components — backed by U.S.-based manufacturing, high-speed production experience, and quality systems built for repeatable performance.

When electrical component programs require precision, conductivity, repeatability, and production scale, ACM gives manufacturers a partner built for complex, production-ready parts. From contacts and terminals to clips, springs, brackets, and small assemblies, ACM supports high-volume electrical manufacturing with the automation expertise, process control, and documentation discipline these programs demand.

Certification	ISO 9001
Facility	Phillipsburg, NJ — USA
Traceability	Lot and material certification support
Experience	30+ years / 10B+ parts produced
Core Capabilities	Precision stamping, injection molding, forming, welding, assembly

Capability Snapshot

ACM supports electrical component programs that require consistent material performance, repeatable production, and scalable output.

Capability	Details
Materials	Copper, plastics, brass, stainless steel, carbon steel, aluminum, and specialty alloys depending on program requirements
Typical Tolerance	0.0005 → 0.005"
Production Speed	Part or Assembly-dependent — up to 500 parts/minute
Secondary Operations	Welding, tapping, cleaning, assembly, inspection, and packaging
Cycle Time	Program-dependent and quoted at RFQ

Electrical component programs are rarely just about producing a small part. They are about maintaining conductivity, consistency, repeatability, documentation, and production scale without adding unnecessary supplier complexity.



Why Electrical Manufacturers Work With ACM

- ✓ A component that looks fine can still fail electrically — ACM's process control is built around conductivity and surface consistency, not mechanical tolerance alone.
- ✓ Agency-recognized components (UL, CSA, and similar) depend on manufacturing consistency to keep that recognition — ACM holds the process, not just the print.
- ✓ Electrical product lines often run for years at steady volume — ACM supports that kind of long-term, evergreen production without the ramp-up cost of onboarding a new supplier.
- ✓ A single electrical assembly can depend on several stamped and formed components — ACM produces contacts, terminals, springs, and housings together, under one quality record instead of several.
- ✓ Manufacturing stays U.S.-based, supporting supply continuity for electrical product lines that can't tolerate long lead-time disruption.

Precision, Conductivity & Production Control

For electrical manufacturing, small components can directly affect performance, reliability, assembly efficiency, and product consistency. Material selection, forming accuracy, surface quality, and process control all matter.

ACM supports electrical component programs with:

ISO 9001 quality systems for automotive-adjacent electrical programs

Process control focused on conductivity, surface finish, and dimensional consistency — not tolerance alone

Lot traceability from raw material through finished part shipment

Material certifications and inspection reporting to support agency compliance (UL, CSA, etc.) where applicable

Documentation practices built for long-running, evergreen electrical product lines

ACM is a fit for electrical components that require precision manufacturing, repeatability, and production scale.



Representative Part Categories

Category	Example Applications
Electrical Contacts	Precision stamped conductive components for electrical assemblies
Terminals and Connectors	Formed metal components used in connection, current-carrying, and power-transfer applications
Springs and Clips	Small formed components used for retention, contact, and assembly support
Brackets and Hardware	Stamped and formed components used for mounting, routing, or mechanical support
Small Precision Assemblies	Multi-step manufactured components requiring injection molding, forming, welding, tapping, cleaning, or assembly

Before You Submit an RFQ

To help ACM evaluate your program efficiently, include as much of the following as possible:

- ✓ Part drawing with CTQ criteria
- ✓ Material specification
- ✓ Conductivity requirements, if applicable
- ✓ Plating or surface finish requirements, if applicable
- ✓ Annual volume or production forecast
- ✓ Target launch date or production timeline
- ✓ Secondary operation requirements, such as injection molding, welding, tapping, cleaning, or assembly
- ✓ Packaging or shipment requirements
- ✓ Current production challenge, if replacing an existing supplier

Bringing an Electrical Component Program to ACM?

Send your print, material spec, annual volume, performance requirements, and production timeline. ACM will review feasibility, manufacturing fit, and production requirements before recommending a path forward.

Start an RFQ. Contact Sales@bihler.com