

Efficient by Design • Since 1986 (orig. Alcoa division)

Overview

PrecisionForm is a U.S. manufacturer of cold formed and machined components serving aerospace, automotive, defense, industrial, medical and specialty OEMs based in Lititz, PA. We collaborate early to apply the most efficient process—cold forming, rotary transfer, multi spindle screw machining, or CNC—to deliver precise, cost effective parts. Prototype validation, in house tool/gage build, secondary machining and assembly, and managed special processes reduce vendor count and total cost.

History Highlights

- ◆ Originated as Precision Products Division of Alcoa (1908)
- ◆ Manufacturing in America since 1986
- ◆ 2008: Baxter Machine Products integrated (adds low volume/high value CNC mill/turn)
- ◆ 2023: Purchased & transitioned to current Lititz, PA site

Core Processes

- ◆ Cold Forming: single stroke to 5ndie multi blow headers
- ◆ Rotary Transfer Machining: 9 & 11nstation platforms
- ◆ Multi Spindle Screw Machines up to 57 mm
- ◆ Turn Mill Machining Centers up to 65 mm
- ◆ Swiss CNC Lathes to 20 mm bar
- ◆ Horizontal & Vertical Machining Centers
- ◆ Conventional CNC Lathes up to 88 mm

Size, Volume & Facility

- ◆ Part size envelope: ~1.5 × 3 mm up to 25.4 × 200 mm (application dependent)
- ◆ Volumes: prototype through mass production; three shifts, Mon–Fri
- ◆ Facility: 105,000 sq ft; ~100 associates

Size, Volume & Facility

Aluminum, steels, brass, and specialty alloys; sourcing partnerships with key mills & distributors.

Selected partners: Precision Kidd / Specialty Aluminum Wire, Admiral Metals, Pennsylvania Steel, Thyssen-Krupp, Cardinal Metals, Kaiser, Saarlöhne.

Industries Served

Aerospace & Commercial Fasteners | Automotive specialty products | Industrial & Flow Control | Medical Defense / Firearms

Secondary Operations

- ◆ Tumble degreasing; bulk rotary & vertical wash system
- ◆ Bulk burnishing & vibratory bowl finishing
- ◆ High-speed flat-die thread rolling & roll forming; precision punch operations
- ◆ Tooling repair & replacement; full quality inspection and gage lab
- ◆ Material testing & analysis

Aluminum Heat Treatment In-House

Equipment Highlights

- ◆ EuroTech Trofeo Elite 8465 SY2 (twin turret/spindle, bar feeders) — (3) units
- ◆ EuroTech Rapido B436-Y2 (twin turret/spindle, bar feeder)
- ◆ Doosan Lynx 220 LY (live tooling, Y-axis)
- ◆ Haas UMC-500 5nAxis
- ◆ Doosan HP4000 II Horizontal Mill; Mori Seiki SH-500 Horizontal Mill
- ◆ Miyano LZ-01R (×2) & LM-II lathes
- ◆ Citizen Cincom A20 Type VII (20 mm) & C16 IX (16

Location

148 W Airport Road, Lititz, PA 17543

