

ACTIVATE YOUR ADVANTAGE TODAY

Outperform your competition with specialized metal components, assemblies, and sub-assemblies.



ALINABAL

Specialized Metal Components & Assemblies

With decades of experience and a deep understanding of specialized metals and polymers, you can count on us to quickly deliver high-quality components, assemblies, and sub-assemblies that meet your strength, durability, and performance needs.



Connecting Linkages

Connecting linkages manufactured for precise motion transfer. Trust our expertise in engineering custom links for strength, durability, and biocompatibility across Aerospace, Medical, and more.



Custom Laminations & Stacks

Through precise cutting, stacking, and bonding processes, custom laminations are meticulously crafted to achieve desired properties and performance characteristics.



Rod Ends, Custom Rod Ends & Ball Joints

Unique rod end and spherical bearing components and assemblies, precision engineered with diverse materials, sizes, and value-added features for every motion transfer need.



Self-Aligning Molded Bearing Assemblies

Our Self-Aligning Molded Bearing Assembly (SAMBA) provides a lightweight, high-performance solution for rugged operations. In-house manufacturing quickly delivers specialty mechanical assemblies with superior control and durability.



Sheets & Shim Stock

Precision sheet metal and shim stock, from .001" to .125" thick. Standard or custom-sized aluminum, brass, stainless steel, and specialty high-nickel alloys.



Spherical Bearings

Wide range of spherical bearings from 0.50" - 4.75" in diameter, standard and custom configured with Teflon, NYLOY, and other specialty metals engineered to outperform exacting needs.



Wind-Driven Turbine Alternators

Reliable turbine alternators providing unmatched power for tough Military and Aerospace applications. Over 8 million units supplied with 0 failures— the trusted choice for mission-critical power.



Brackets

Precision bracket parts and assemblies, manufactured from a range of materials to support diverse functions. Cost-effectively produce long-lasting stabilizers, shelves, and more tailored bracket solutions.



Fixturing & Disposable Tooling

Fully welded, reusable assemblies designed to hold parts during the coating/painting process. Produced from high temperature alloys and to the tightest tolerances to mitigate contamination.

Highest Standards for Part Production & Inspection

Investments in high-end inspection equipment and experienced personnel ensure the highest quality engineered solutions that exceed customer expectations and meet all applicable regulatory and statutory requirements.

- Aberlink Axiom Touch Probe CMM
- Keyence LM-X100T Multisensor Measurement System
- Oasis CoreX2 Optical Inspection System
- Starrett Optical Comparator
- Jones & Lamson Optical Comparator
- Mitutoyo PH-3500 Optical Comparator
- Fowler Trimos V4 Height Gauge
- Pin, Thread, Go/No-Go Gauges

Drive Your Business Forward with Proven Expertise

Our deep engineering experience gives us a critical 360-degree perspective, enabling us to manufacture high-performance metal components, assemblies, and sub-assemblies.

Launch New Products – *Faster*

Our full-service solutions drive speed-to-market and business growth from collaborative design to product launch.

Outperform with Specialized Metal Components

Precision devices, complex electro-mechanical assemblies, and custom components are made to your exact specifications.

Strengthen Your Domestic Supply Chain

Count on Alinabal for the highest quality products—on-time and on-budget, through our five U.S.-based facilities.



Comprehensive In-House Capabilities

Our single-source solution and agile, customer-centric approach enhance efficiency, lower costs, and accelerate time to market—all while ensuring manufacturability and maximizing our customers' profitability.

Bending & Forming
Welding
Stamping

Injection Molding
Precision Waterjet & Laser Cutting
CNC & Screw Machining

Wire EDM
Laminations & Stacks
Milling & Turning

Heat Treating
Finishing & Tumbling
Part Marking

High-Performance Equipment

Presses – Amada Turret, Arbors,
Die Transfers, Press Brakes,
Mechanical, Hydraulic

Laser Cutting – Trumpf &
Mitsubishi Lasers

Water Jet – Flow Dynamic

Grinding – Centerless,
Form, OD Form

Double Sided Fine Grinding
Lapmaster DSG Sheet Stock Shears
& Coil Stock Slitters

Linkage Assembly Machines

Machining – Haas CNC,
Mori Sieki, Bridgeports, Drilling,
Lathes, Screws

Orbit Form Assembly Machines

Tumblers – Roll Abraders,
Vibratory, Harporizer,
Vibradyne

Welding (Spot, TIG), Riveter
Assembly Machines

Bar Chamfers

3D CNC Wire
Benders