



EDRO

PRECISION MANUFACTURING SOLUTIONS

MOLD BASES | MATERIALS | PVD COATINGS | ADDITIVE





PRECISION MACHINING

CUSTOM MOLD BASES

EDRO specializes in manufacturing high cavitation custom mold bases for plastic injection mold tooling, designed to demonstrate precision alignment and long lasting performance. EDRO regularly produces high cavitation stripper plate, stack, double-stack and hot-runner bases, as well as auto unwind and runnerless mold bases to exacting tolerances.

EDRO utilizes the latest in emerging technology, software, and state-of-the-art equipment, together with an experienced team of machinists and technicians focused on providing unmatched accuracy, repeatability, and interchangeability in our customers complex mold plates. Every job receives the time and effort necessary to produce a first rate mold base for our customers most challenging projects.

MACHINING SERVICES

Backed by state-of-the-art equipment, a skilled and experienced team, and a painstaking dedication to quality, EDRO's precision machine shop provides superior quality with greater accuracy, and fast delivery times for our customers most critical components and toughest demands.

EDRO provides quick turnarounds on saw cut pieces and 6 side processed plates. Our gun drilling department is a specialized process designed to drill holes with a high depth to diameter ratio. Our multi-axis CNC department specializes in holding tight tolerances with excellent surface finishes. Our surface grinding department can handle larger plate capacities with tight tolerances on flat and parallel.

WHAT SETS US APART

- + Highly skilled and dedicated team
- + State-of-the-art equipment
- + Unmatched precision and repeatability
- + Large plate capacity of 60" x 102" and 8 tons
- + Tight tolerances held at .0002" location and size
- + Temperature controlled environment
- + Work materials: stainless steel, Inconel, Titanium, Aluminum in bar or 3D printed forms

IN HOUSE SERVICES

- + CNC machining 3, 4, 5 axis
- + Saw cutting
- + 6 side precision plate processing
- + Gun drilling
- + Surface grinding
- + CNC programming and engineering
- + CMM inspection
- + Laser engraving
- + PVD/DLC COATINGS



CAPABILITIES

Multi-machine multi-pallet automated machining cells

EDRO has proactively invested into specialized machines to service the most challenging components in the plastic mold tooling, aerospace, oil & gas, and other specialized industries.

These machines are ideally suited to manufacture precision complex components made from the toughest high alloyed materials starting from bar, forged, and 3D printed forms.

EDRO has invested in high quality inspection equipment to satisfy the demands of the aerospace and other specialized industries.

- + Zeiss Contura G2 and Zeiss MC 850 CMM's
- + Keyence XM Series handheld probe measurement system
- + Confirm 100% GD&T inspection
- + AS9100D/ISO9001 Certified
- + Laser engraving in house
- + Machining and inspection processes are done in a temperature controlled environment with regular calibration of equipment.

EDRO Engineering Component Size Capability Guide



Precision equipment required for tougher cutting materials, consisting of Mitsui Seiki, Makino, Yasda, DMG MORI, Kuraki, Kitamura, and Zeiss

Qty	Machine Type	Machine Envelope
13	Precision Vertical machining centers	maximum part size 60" X 102"
10	Precision horizontal machines (4/5 axis)	maximum part size 60" X 60"
1	Integrated Mill Turn Center (9axis)	maximum part size 26" dia X 60"
4	CNC deep hole drill machines	maximum part size 60" X 80"
5	Vertical rotary grinders	maximum part size 96" diameter
3	NC surface grinders	maximum part size 78" X 118"
2	CNC coordinate measuring machines	maximum part size 33.4" X 70.8"

DMG MORI

MITSUI SEIKI



PRODUCTS AND SERVICES



MACHINING

EDRO provides precision machining services to support critical components in various applications. We utilize top of the line machining centers and specialize in holding tight tolerances with excellent surface finishes.



MATERIALS

EDRO offers a wide range of specialized steel, aluminum, and copper alloys for requirements in hot work, cold work, and plastic tooling applications.



PVD/DLC COATINGS

EDRO provides thin film PVD/DLC coatings to improve the quality, functionality, efficiency and durability of tools, specialized parts and mold components.



ADDITIVE

From powder to parts, EDRO offers high quality powders for your 3D metal printing needs, as well as complete additive manufacturing solutions.

EDRO

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