



***Technologies and Solutions  
yet to be imagined.***

## MACHINING CAPABILITIES

United Dynamics has the precision metal removal capabilities to machine components with tight tolerances down to  $\pm 0.0002$  inches.

Our capabilities are dependent on several factors to include the desired length, depth, geometric tolerance, material, process, and machine... to name a few.

Historically, we have achieved typical customer tolerance ranges between  $\pm 0.0005$  to  $\pm 0.005$  inches for aluminum, stainless steel, and most carbon steels.

Our capital investment into the latest equipment under one roof ensures effective control of costs, customer designs, and product quality.

- ✓ Prototyping & Full Production Capabilities
- ✓ Full CNC Capability
- ✓ 4- and 5-Axis Milling Capabilities
- ✓ Experienced with a Wide Range of Metals and Plastics
- ✓ Tight Tolerances Down to  $\pm 0.0002$  Inches
- ✓ In-Process Inspection Capability, including CMM
- ✓ Various Welding Capabilities, including Stir Weld
- ✓ Effective Use of Custom Engineered Holding Fixtures for Repeatable and Precise Operations

For new designs, “build-to-print”, or modifying an existing unit, United Dynamics has the machining capability to support any project... big or small.



*Pictured: 03012 Indicating Panel  
and 94007 Temperature Sensor,  
both installed on the F-15 Eagle.*



**Full CNC Capability | Mazak Vertical Integris 200-IV, 5-Axis CNC Milling Machine**  
**Mazak Vertical Center, Nexus 410B-II 4-Axis CNC Milling Machine | Mazak Super Quick Turn, 250M, CNC Lathe**  
**Mazak QuickTurn, Nexus 250-II MSY, CNC Lathe | Mazak QuickTurn, 20, CNC Lathe | Birmingham Vertical Milling Machine**  
**Birmingham Lathe | Bridgeport Torque Cut TC2G, CNC Mill | Rotary Table, Fourth Axis | Vibratory Debur Machine**  
**Welders: Micro, MIG, TIG, Spot, Torch | Conventional Machining Tools | In-Process Inspection Capability, Including CMM**  
**Kaeser SFC 22 Sigma, 200-psi Scroll Compressor**

#### ALUMINUM

2024 | 6061 | 5052 | 7075 | MIC-6 | Castings

#### BRASS ALLOY

C360 Brass | C464 Brass | Barium MB-10 | Bronze C-314  
 Bronze C-316 | Bronze C-5100 | Bronze C-630 | Oil Lite Bronze

#### CARBON ALLOY STEEL

A-6 | 1018 | 1020 | 1045 | 1095 | 1117 | 1215 | 4130 | 4140 | 4340  
 4620 | 8620 | 9310

#### COPPER ALLOY

Copper 14500 | Copper 110 | Beryllium Copper

#### NICKEL ALLOY

Inconel | Monel | Nispan-902C | Invar | Nitralloy 135M | Alloy-42

#### PLASTIC

Delrin/Acetyl | Acrylic | Polycarbonate | Nylon | Peek | PTFE | PVC  
 Teflon | Phenolic | FR-4 | Composite

#### STAINLESS STEEL

302 | 303 | 304 | 316 | 321 | 347 | Cast 304 | 403 | 416 | 418 | 440  
 15-5PH | 17-4PH

#### TOOL STEEL

A-2 | D-2 | M-7 | S-7 | O-1 | W-2



**NAICS:** 332510 332710 332721 332722 332911 332919 332991 332999 333415 333612 333613 333999 334418 334419 334513 334514 334519  
 335999 336411 336412 336419 339999 541330 541420 811310

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