



Precision Manufacturing

Quality and Customer Service.
Every Job! Every Customer!
Every Day!

Machining Specialists

4290 Centerville Rd
Vadnais Heights, MN 55127

651-204-1034
www.machiningspecs.com



Hard Drive Enclosure/Cassette

Milled from billet aluminum. Hardcoat with teflon impregnation. Laser etched.

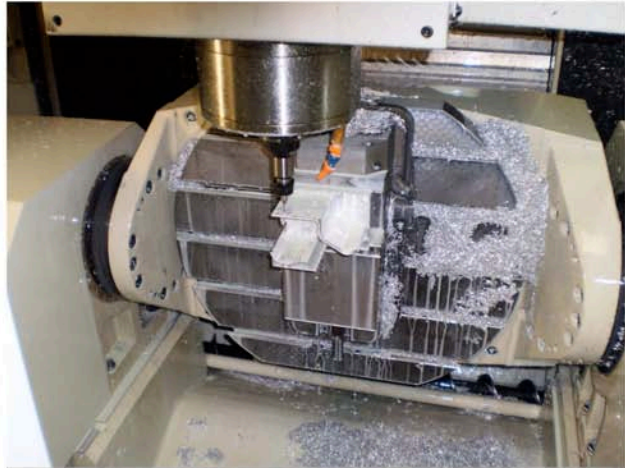


Flap Actuator Assembly for Aircraft

Turned/milled from 7075 aluminum and 4130 alloy steel.

5 Axis Milling

Table is tipped back at 90 degrees and rotated 180 degrees.



Aircraft Bracket

Milled from solid billet aluminum on 5 axis machine. Tolerances held on all sides.





Aircraft Bracket

Customer redesigned from a welded assembly based on our success in machining.



Aluminum Fan Blade - 28" Length

Machined from solid billet using Mastercam surfacing module and 5 axis module.



Aluminum Fan Blade

Side 1 complete. Note the smooth finish on the blade surface right from the machine.



Aluminum Fan Blade

Contouring side 2. Note the specialized fixturing required to hold the blade rigidity while machining.



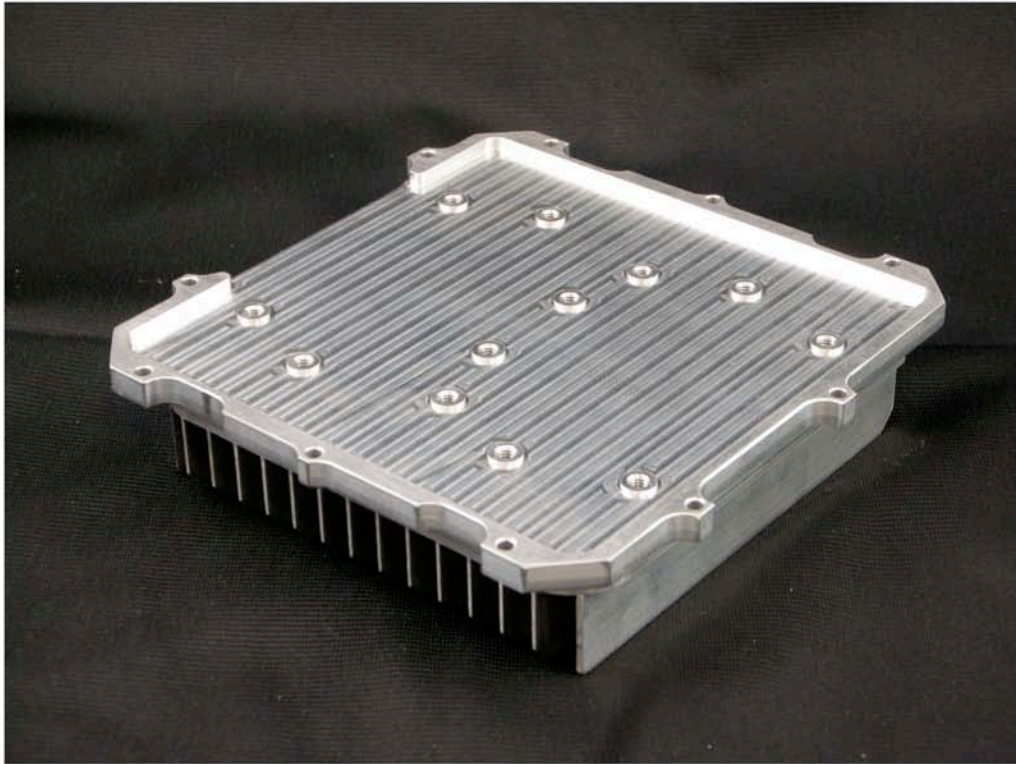
Aluminum Fan Blade

Finish contouring the critical leading edges.



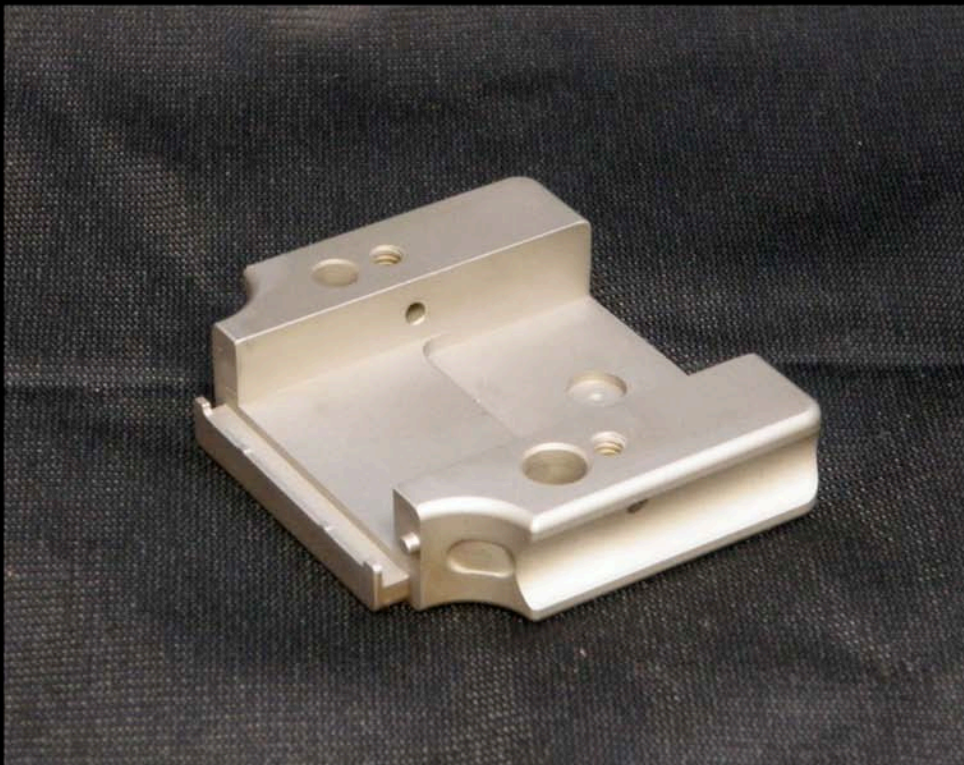
Aluminum Heat Sink for Aircraft Display Panel

Machined from solid aluminum billet.



Heat Sink

Finished product includes: yellow chromate surface finish, helicoils, and 3 identification ink stamps.



Stainless Steel Clamp Half - Med Device Industry

Machined from 420 Stainless. Heat treat, wire EDM, and bead blast. Note the tiny bump features on clamp.



Stainless Steel Clamp Half

Top side showing engraved part number and groove features.

Main Wing Attach Bolt for Aircraft

Machined from 4130 alloy steel. Heat treat, ground, crack tested, and nickel plated.



Brass Bushing for Aircraft Landing Gear

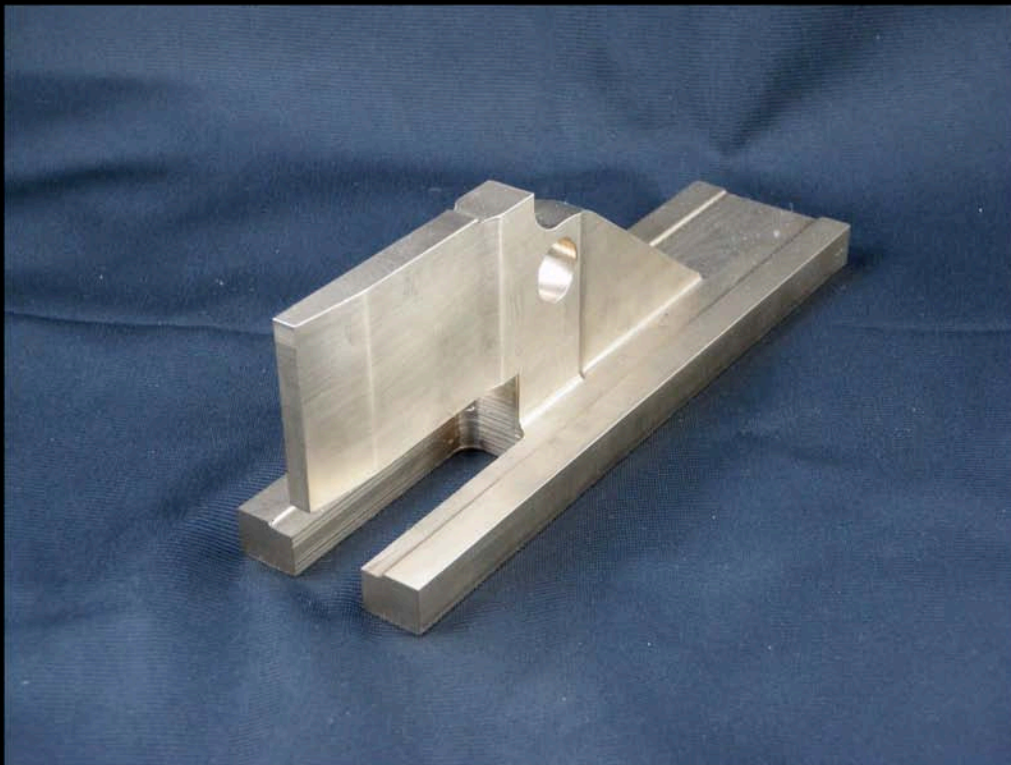
Note internal spiral grease groove.
Tolerances sub .001".





Aircraft Jack Pad Assembly

Machined from aluminum billet on our 5 axis milling center to hold tolerances between surfaces.



Brass Shuttle/Ram
Used in the ammunition industry.

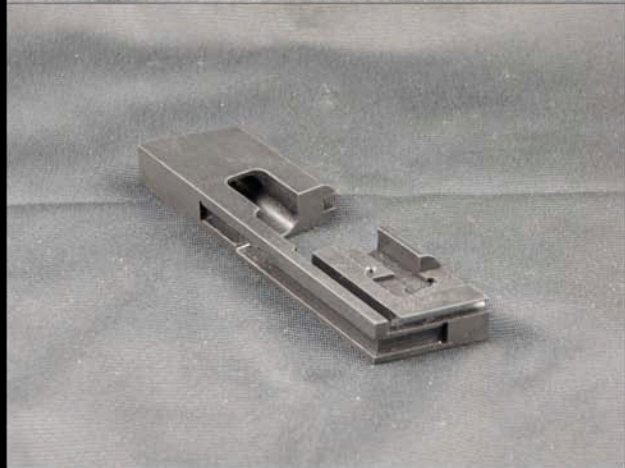
Electronics Interface- 9mm Training Gun

Replaces normal clip and allows for virtual training. Note air and wiring channels.



Electronics Interface- 9mm Training Gun

Back side showing additional complexity.





Aluminum Wiring Junction Box

Machined from billet and powdercoated for extreme military use (note the desert sand color).

Compression Screws

Machined from engineering grade plastic and used in extreme military environments.



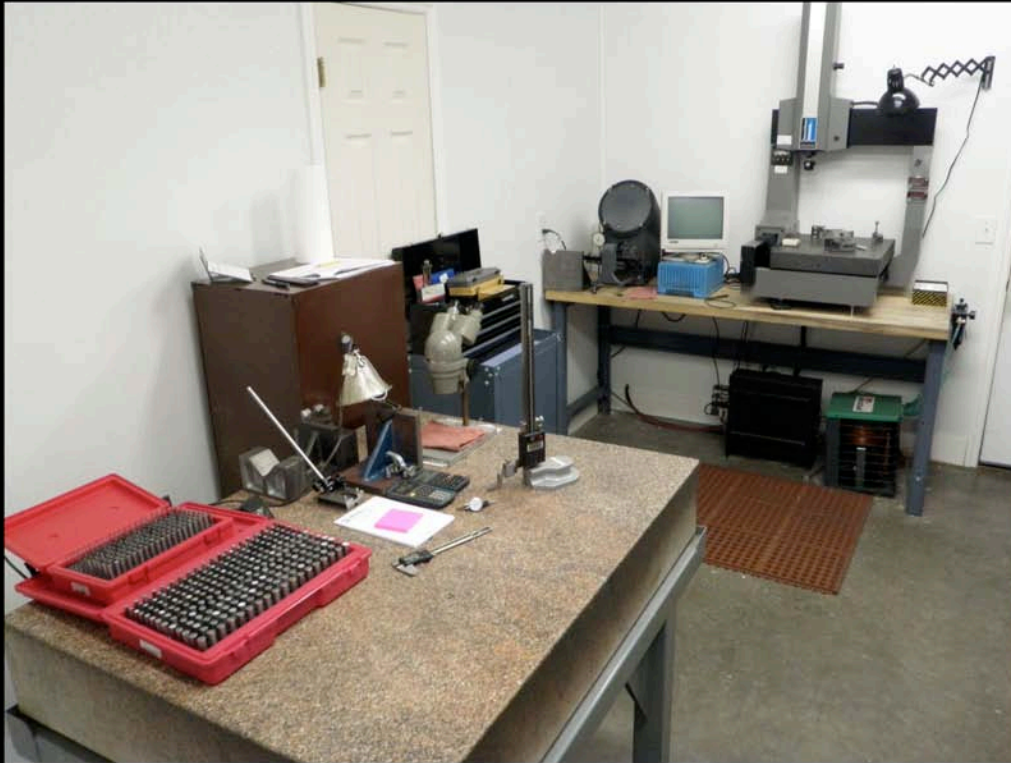
Back Panel Mounts

Machined from aluminum. Hardcoat plated and inserts pressed in.

Quality Policy

We will supply quality parts to our customers on time and for a value that increase their customer's satisfaction.

Through continuous improvement, we will strive to increase that level of satisfaction at every opportunity.



Climate Controlled QA Lab

QA activities governed by our system which is modeled from AS9100 (Aerospace) specifications.

Ron Verhaagen

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Dale Derichs

CNC Milling and Shop Foreman
Hurco VMX24



Tom LeDell

CNC Turning Machinist
Hurco TM6 and TM10



Rhonda Bradtke
CNC Milling Machinist
Hurco VM1



Ryan Buck
CNC Turning Machinist
Hurco TM6 and TM10



Brent Nelson
CNC Milling Machinist
Hurco VTXU - 5 Axis



Bob Jurek
CNC Milling and Turning Machinist
Hurco VM1 and TM6



Mark Bierwerth

Sawing, Job Prep, Delivery



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Engineering and QA



Contact

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