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.
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Sales and Customer Service  
651-319-5500

Todd Olson  
Customer Service and Logistics  
651-583-4945
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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