

Hartmann's Inc.

Quality, Precision, Delivered On-Time



Hartmann's Inc., founded in 1955, is a four generation, family owned and operated, high-precision machine shop serving aerospace, energy, medical and commercial industries. Its 100,000 square foot facility is HUBZone located in Abilene, TX less than two miles from Dyess Air Force Base. As a Small Business Administration (SBA) Certified company primarily working under the NAICS Codes of 332710 (Machine Shop) and 332721 (Precision Turned Product Manufacturing), they also provide services under five additional codes. If you can imagine it, Hartmann's Inc. can make it with *Quality, Precision, Delivered On Time*.

Services: (see following sheet for tolerances and maximum dimensions)

- Design – Accept any 2D and 3D CAD formats or traditional technical drawings / Reverse engineer critical components / Perform machinability analysis
- Milling – High-precision CNC machining
- Lathe – Turning / Boring / Drilling / Threading / Live-Tooling / Y-Axis Milling
- Wire EDM – Complex geometries / Extremely tight tolerances
- Finishing – Centerless and Surface Grinding / Polishing / Precision Lapping / Material Heat Treating / Tempering / Anodization / Laser Etching
- Assembly – Complex mechanical and electrical assemblies
- Packing & Shipping – Warehousing / Inventory Management / In-house logistics department

Materials:

- Aluminum
- Brass
- Bronze
- Copper
- Titanium
- Steel
- Stainless Steel
- Duplex Stainless Steel
- Hastelloy
- Inconel
- Nickel Alloys
- Tungsten Alloys
- Other Alloys
- Hard Plastics
- Hard Rubber

Quality Control:

- **AS9100D** and **ISO 9001:2015** Certified
- Digital part data and Model Based Definition (3D MBD) machining and inspection
- Precision Coordinate Measuring Machine (CMM)
- 8-Axis laser scanning

Notable Experience:

- Aeronautical – Critical mechanical components (Trotter Controls)
- Energy – Nuclear power plant components (ACU Nextlab) / (Princeton University)
- Defense – Missile components (Lockheed Martin) / Aerospace Ground Equipment components (Pratt & Whitney) / (BAE) / (Boeing)
- Medical – High-precision mechanical assemblies for contact production (Johnson & Johnson Vision) / (Tokyo Automated Machinery) / Patented pump with highest dispensing accuracy in the industry
- Industrial / Commercial – Automotive (Cummins Engine) / High Pressure Valves (Emerson Automation) / Bottling machinery components (Coca Cola)

Equipment list:

Qty	Function	Axis	Make / Model	Tolerance	Notes
1	CNC Mill	4	MAZAK HTC-400	0.0002" (5.08µm)	Max 560mm x 510mm x 510mm (22.05" x 20.08" x 20.08")
1	CNC Mill	3	MAZAK PFH-4800	0.0002" (5.08µm)	Max 560mm x 630mm x 600mm (22.05" x 24.80" x 23.62")
5	CNC Mill	3	MAZAK Smooth Technology VCN-570C	0.0002" (5.08µm)	Max 570mm x 1300mm x 570mm (22.44" x 51.18" x 22.44")
3	CNC Mill	3	MAZAK Smooth Technology VCN-700D	0.0002" (5.08µm)	Max 700mm x 1740mm x 770mm (27.55" x 68.50" x 30.31")
1	CNC Mill	3	MAZAK Vertical Center Nexus 510C	0.0002" (5.08µm)	Max 510mm x 1300mm x 570mm (20.08" x 51.18" x 22.44")
1	CNC Mill	4	MAZAK Vertical Center Nexus 510C-II	0.0002" (5.08µm)	Max 510mm x 1300mm x 570mm (20.08" x 51.18" x 22.44")
1	CNC Mill	3	MAZAK Vertical Center Nexus 700D/40-II	0.0002" (5.08µm)	Max 700mm x 1740mm x 770mm (27.55" x 68.50" x 30.31")
1	Lathe	5	MAZAK INTEGREGEX 200-IV	0.0002" (5.08µm)	Max Ø 200mm (8")
1	Lathe	2	MAZAK Quick Turn 35	0.002" (50.8µm)	Max Ø 150mm (6")
1	Lathe	2	MAZAK Quick Turn 200 H-P	0.0002" (5.08µm)	Max Ø 305mm (12")
1	Lathe	3	MAZAK Quick Turn 350M	0.0002" (5.08µm)	Max Ø 355mm (14")
2	Lathe	3	MAZAK Quick Turn Nexus 200M	0.0002" (5.08µm)	Max Ø 200mm (8") Live Tooling
1	Lathe	2	MAZAK Smooth Technology Quick Turn 200	0.0002" (5.08µm)	Max Ø 200mm (8")
3	Lathe	3	MAZAK Smooth Technology Quick Turn 200MY	0.0002" (5.08µm)	Max Ø 200mm (8") Live Tooling
1	Lathe	3	MAZAK Smooth Technology Quick Turn HQR-200MSY	0.0002" (5.08µm)	Max Ø 200mm (8")
1	Lathe	3	MAZAK Smooth Technology Quick Turn HQR-250MSY	0.0002" (5.08µm)	Max Ø 200mm (8")
1	Lathe	3	MAZAK Super Quick Turn 15M Mark II	0.0002" (5.08µm)	Max Ø 200mm (8") Live Tooling
1	Wire EDM	2x2	Mitsubishi MV2400S Advance Type 2	0.0001" (2.54µm)	Max 23" x 16" x 10" 2x independent X-Y split up to 12°
1	Wire EDM	2x2	Mitsubishi MV1200S	0.0001" (2.54µm)	Max 15" x 12" x 6" 2x independent X-Y split up to 12°
1	Lapping	2	ENGIS FL-24 VP	0.000001" (0.0254µm)	Max Ø 240mm (9.5") Lapping / Polishing
1	CMM	3	HELMEL	0.0005" (12.7µm)	Max 40" x 29.5" x 20"
1	Scanner	8	FARO QuantumS Max	0.001" (0.0254mm)	3D laser scanning Reverse engineering
1	Optical QC	2	KEYENCE IM7030	0.0001" (2.54µm)	Max 9" x 11" x 3" Manual point override capability