

Cortec Precision Manufacturing is a fabrication company with 130,000 sq. ft. of manufacturing, treatment, and assembly capabilities in Pflugerville, near Austin, Texas. We specialize in offering our customers prototype and production manufacturing runs of sheet metal, enclosures, welded mainframes, machining, coating, paint, and value-add assembly to name a few of our key competences. Our quality control program has been designed to assure the customer a complete quality product, according to blueprint and customer specifications. BSI Management Systems has registered Cortec as ISO 9001-2015 certified. Our Commitment is quality workmanship, customer service, and on time delivery.

The following details are our Texas facility equipment list as of Feb. 4, 2025:

COMMUNICATION

- Internet access bundle- fiber optic (FO) connection.
- E-mail: cortec@cortecsheetmetal.com Web: www.cortecprecision.com
- FTP capabilities
- Secure remote VPN access

ENGINEERING

- Amada AP100US 2020
- Amada Sheetworks for Unfold #D Solid Sheet Metal CAD System
- Amada Dr. Abe Tube, Fabriwin 2013 CAD/CAM system
- Amada Dr. Abe Bend
- In-house Engineering
- Bar Code Scheduling and Job Tracking
- Computer Networking Systems
- SOLIDWORKS 2024, DXF, IGES, CADL, INVENTOR

SHEARING

- Amada M2060 CNC Six ft. Shear 1/4 Capacity

LASER CNC SYSTEMS

- Amada Pulsar MP1212 Production Laser System for precision cutting of stainless steel, cold roll steel and aluminum.
- Amada FO MII RI 3015, 4,000 watts, the Rotary Index allows to cut bowed pipe or tubing and a significantly wider variety of tubing and pipe without the use of fixtures or collets. This Machine can process round, square, rectangle, C-channel, and angle iron. Productivity is further enhanced with the use of Dr. Abe Tube software. Many common shapes and configurations are already pre-programmed making it very easy to fabricate tubular structures that fit together for welding.
- Amada's FO 3015 NT laser 60 X 120: state of the art laser system for precision cutting of stainless steel up to .500" thick, aluminum up to .250" thick and hot rolled steel up to .750" thick on a 60" X 120" capacity pallet changing rack system.
- Amada LCG 3015 AJ with AMS 3015 Fiber Laser with auto load & unloader: 6000 W: Faster piercing and cutting by using linear drives in all three axes. Superb cutting quality with sharp corners over the full thickness range. Cut Process Monitoring improves process time and part quality by pierce detection and by monitoring cut process.

PUNCHING CNC SYSTEM

- EML 2515 AJ Punch/Fiber Laser Combination: 3 kW Fiber Optic Laser System. Punch and die changer automatically replaces tools, allowing the machine to run continuously. The turret is equipped with 4 special tapping stations.

FORMING

- Two HG 1003 ATC- 110-ton brake, The Automatic Tool Changer (ATC) can load the most complex tool layout within three minutes.
- Two Amada RG 100 NC9-EX x 10 Foot Brake - 100-ton brake, complete with numerical, three axis NC back gauge control
- Two Amada RG 80 NC9-EX Control X 8 Foot Brake- 80-ton brake, complete with numerical, three axis NC back gauge control
- Amada RG 50 NC9-EX Control X 6 Foot Brake- 50-ton brake, complete with numerical, three axis NC back gauge control
- Diacko Roller (36" capacity)

HARDWARE

- Haeger 824 MSP Plus hardware inserter
- Haeger 824 Plus hardware inserter
- Two Haeger 618 Plus hardware inserter

WELDING

- Four 280 AMP Miller Dynasty TIG welder
- Four 250 AMP Miller Syncrowave 250 DX TIG welder
- Two Miller Dynasty 300 Multiprocess Welder
- Two Miller Syncrowave 400
- Miller Syncrowave 300 TIG Welder
- Two Miller Millermatic 255 Pulsed MIG Welder
- 250 AMP Millermatic MIG 252
- 250 AMP Millermatic MIG 251
- Two 250 AMP Millermatic MIG 211
- 250 AMP Miller Spectrum 2050 Plasma
- Lincoln Electric 256 MIG Welder
- Tecna Spot-welder
- Yaskawa Robotic Laser System
- LightWELD Series Handheld Laser Welding System

MACHINING & 2nd OP

- Two Haas VF7 CNC Vertical Milling Machining System
- Haas VF6 CNC Vertical Milling Machining System
- Five Haas VF4 CNC Vertical Milling Machining System
- Haas ST20 CNC Lathe Turning Machining System
- Amada 250W Saw.
- Bolton Conventional Mill

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Phone: (512) 927-2909

- Two FlexArm Tap

FINISHING

- 37" Timesaver Lynx MWT-DBB-60 Wet
- Four Monsoon Down Draft Table 3'x 6'
- Five Monsoon Down Draft Table 3'x 4'
- Timesaver 22 Series finisher
- 2' x 2' x 4' bead blaster
- A complete assortment of metal finishing equipment

PRETREATMENT FOR LIQUID. POWDER COATING & SILKSCREENING

- Wet Spray Open Face booth – 10' x 8' x 8'
- Powder Booth – 15' x 12' x 10'
- Powder Booth – 10' x 8' x 8'
- Wisconsin Oven EWN-820-8G
- Wisconsin Oven EWN-812-8G
- Three Nordson Encore Spray Gun
- MSP 3140 Silk-screening equipment
- Grieve Oven AB-550 for Silk-screening
- Pem 3000 Pressure Washer
- Riveer Treatment System RTS1000 - 100% reusable pretreatment – spray system

CLEANING

- Branson 2024 detergent wash/DI water wash/rinse system with ultrasonics & 1k cleanroom pass-thru.

CLEANROOMS

- 1 gowning room
- 1 ISO 6 (Class 1000) cleanroom for value-add assembly and cleanroom packaging services.
- Equipped with brightlight & UV blacklight capability.
- Rooms equipped with CDA & N2 purge system for packaging.
- Electrical, Mechanical & Electromechanical assembly capability

ASSEMBLY (ISO 8 – class 100000)

- 20,000 sq. ft. assembly area
- Electrical, Mechanical, & Electro-Mechanical assembly capability
- Various pneumatic and manual riveting guns

QUALITY ASSURANCE

- 1 fully equipped enclosed & climate controlled inspection rooms.
- 12ft. Portable CMM Prime Faro Arm with pc & SolidWorks
- Optical Comparator model: Baty R400 XL
- Surface Plates: A variety of plates up to 48" x 96"
- TR-200 Surface Roughness Tester
- Discuss FAI Generation Software

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- UV-A/blacklights & bright lights & digital light tester
- QCBD Quality Management System online database
- Various Hand Tools (Calipers, Gauge Block Sets, Thread Gauges, Mics, Protractors, etc.)
- Phosphate Coating Thickness Lab with Mettler-Toledo MS Series precision scale & Scilogex MS-H280-Pro heated stirrer
- Starrett Altissimo 24"
- Virtek Laser QC 2D & Optical Inspection System with SPC Software
- CMM Mitutoyo B241
- CMM Wenzel XO 107 with separate offline and online Open-DMIS programming capability
- Major inspection equipment is linked to SPC data collection in real-time mode.
- Konica-Minolta CM2600-D spherical Spectrometer with On-color Software & 555 Shade Sorting
- Micro-TRI-gloss 20°, 60° & 80°-Fe/NFe combo Gloss meter/Paint Thickness Tester
- Light Booth with multiple light sources
- Positector 6000 FNS-1 Coating Thickness Tester
- Various borescopes & microscopes with camera systems

SHIPPING

- 20,000 sq. ft. kitting & packaging areas
- Two Videojet 1220 Part Marking Machines
- Videojet 1580 Part Marking Machine
- A complete assortment of various packaging, boxing, and creating materials.

With almost fifty years of experience in fabrication, assembly, treatment, and value-add, Cortec is capable of meeting all your requirements from prototype to quick turnaround, to long-term and turn-key contracts on low, medium and high-volume production. We proudly offer our facilities and capabilities as a one stop shop and encourage customer surveys and feedback. Please contact us at your convenience.

"Our #1 Goal is to Continually Improve Customer Satisfaction"