# FACILITIES

2231 Will Wool Drive, San Jose, CA 95112 Phone: (408) 278-8540 Fax: (408) 278-8548
625 Wool Creek Drive, San Jose, CA 95112 Phone: (408) 971-1564

Cortec Precision is a Sheetmetal & Machining fabrication company, with 160,000 sq. ft. Mfg / Paint / assembly facilities in San Jose, California and a 130,000 sq. ft Mfg / Paint / assembly facility in Austin (Pflugerville), Texas. We specialize in offering our customers NPI prototype and small, medium, large production manufacturing runs of sheetmetal, enclosures, welded mainframes and value-add assemblies. Our quality 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 to you is quality workmanship, customer service and on time delivery.

The following details our California facility equipment list as of Aug 27, 2020:

## COMMUNICATION

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

## ENGINEERING

- Amada AP100US 2013
- Amada SheetWork for Unfold #D Solid Sheet Metal CAD System
- Amada Dr. Abe Tube, Fabriwin CAD/CAM system
- In-house Engineering
- Bar Code Scheduling and Job Tracking
- Computer Networking Systems
- SOLIDWORKS 2019, DXF, IGES, CADL, INVENTOR, JT2Go, MBD
- MieTrak Pro ERP System w/Shop Floor Control & Kiosks

## QUALITY ASSURANCE

- 2 fully equipped enclosed & climate controlled inspection rooms.
- 8 ft. Portable CMM Platinum Faro Arm.
- 12ft. Portable CMM Prime Faro Arm with pc & Solidworks.
- Mitutoyo Optical Comparator model: PH – A14.
- Surface Plates: A variety of plates up to 48” x 96”
- TR-200 Surface Roughness Tester.
- Mitutoyo SJ-411 Surface Roughness Tester.
- Discuss FAI Generation Software.
- UV-A/blacklights & brightlights & 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.
- Two Virtek LaserQC 2D & 3D Optical Inspection Systems with SPC Software.
- CMM Brown & Sharp Microval with separate offline and online PC-DMIS programming capability.

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- All inspection tooling & equipment is linked to our "1factory" Process Capability & SPC data collection & real-time reporting.
- Datapaq Easytrack2 and Omega 12 channel temperature profiling equipment.
- 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.
- Positector 6000 FNS-1 Coating Thickness/Eddy Current Tester.
- Sinometer LX1330B Lux Meter.
- 4 fully equipped cleanrooms (Class 100, 1000, 10,000 / ISO 5, 6, 7) with Lighthouse Particle Monitoring System.
- Agilent MD30 VS Series Vacuum Leak Detector with dry scroll pump.
- Various borescopes & microscopes with camera systems.

## SHEARING

- Amada M2045 CNC Six ft. Shear 3/16 Capacity
- Digital/Computer Controlled Amada Eight inch Corner Notcher with Inside Notcher

## LASER SYSTEM

- Amada Pulsar MP1212 Production Laser System for precision cutting of stainless steel, cold roll steel and aluminum
- Amada FO MII RI 3015, 4,000 watt, 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's FO MII RI, the Rotary Index allow 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 ENSIS-6000 3015AJ 6kw high speed Fiber Laser cutting system with dual towers. 4 times faster than a $CO_2$ laser.
- Amada Apelio II 357V combination Laser / Punch.
- Amada Pulsar LC2415A3 Production Laser System for precision cutting of stainless steel, cold roll steel and aluminum.
- Amada LC2515 FOL-AJ Fiber-LASER Cutting & Punching combination system.

## PUNCHING

- Amada 357 Queen 56 Station CNC turret punch press with two auto index stations, complete with FANUC Amada 04PC controls
- Amada 358 Vipros King 58 Station turret punch press with two auto index stations, complete with FANUC 04PC controls
- Amada TOGU III tool sharpener
- Two Amada autoloaders, MP1212 & MP1225NJ
- Amada 357 Vipros Queen, 58 station turret punch press with two auto-index stations. Complete with Fanuc 18PC control.

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## FORMING

- Two Amada HD1003NT – 100 ton, 10' bed length, with 6 axis back gauge control, plus Astro ATC automatic tool changers
- Amada HDS 1303NT – 143 ton, 10' bed length, 5-axis back gauge
- Amada HG1003ATC – 100 ton with auto tool-setter
- Four Amada RG 80 ton brakes complete with numerical, three axis NC back gauge controls
- Amada RG 35 ton brake, complete with numerical, three axis NC back gauge control
- Amada RG 50 ton brake, complete with numerical, three axis NC back gauge control
- Amada RG100 10 ft. 100 ton brake, complete with numerical three axis NC back gauge control (10' capacity)
- Amada RG 3512 brake complete with numerical, three axis NC back gauge control
- Amada RG 5020 brake complete with numerical, three axis NC back gauge control
- Acra FRP-5016 power rollers, (50" capacity)
- GMC PER-0510 power roller, (60" capacity)
- Amada RG 100S 100ton, with numeric 3 axis back gauge control
- Diacko Roller (36" capacity)

## HARDWARE

- Three Haeger HP6 hardware inserters complete with auto feed (on two) and accessories
- Three Haeger 824 Plus hardware inserters with auto feed
- BP Blue Pneumatic Spin-Pull-Spin Ultra BP-60
- Haeger 618 Plus hardware inserter

## WELDING

- Fourteen 250 AMP Miller TIG welders
- One 250 AMP Lincoln TIG welder
- One 400 AMP Miller Dynasty TIG welder
- Nine 200 AMP Miller MIG welders
- One 50 AMP ACME Spot welder
- One Amada 500 AMP aluminum spot welder
- One Millermatic 350P Aluminum
- Three Syncrowave 350LX TIG
- One Yaskawa Motoman VA1400 robotic welder with Miller Auto Access 300DI
- Liburdi Dimetrics Orbital welding center with capability for 1/8" – ½" tubing.
- Amada FLW 4000 M3 Robotic Fiber Laser Welder

## MACHINING

- HAAS EC-500 Horizontal Machining Center
- HAAS VF7 CNC Machining System
- Three HAAS VF3ss CNC Machining System
- Hyundai SKT 160A CNC Turning center Lathe
- Hyundai VX500 Vertical Machining System mill
- Hyundai VX400 Vertical Machining System mill

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- Milltronics Open Style Vertical Milling Center with 30" X 60" of travel.
- Volumec VTS516 Tapping Machine
- 12" Harig Surface Grinder
- Four Bridgeport mills
- Hyundai W/A SKT15 CNC turning center lathe
- Yama Seiki BM1020 Z Vertical machining center
- Yama Seiki BM 1020 Vertical machining center
- Takisawa NEX-108 8" chuck CNC turning lathe
- Lewis Mill

## FINISHING

- 36" Timesaver with dust collector
- Timesaver Lynx 37MWT-DD-60 wet grainer
- Three 12 foot stroke sanders
- 2' x 2' x 4' bead blaster
- Torex T-6026 vibratory tumbler
- A complete assortment of metal finishing equipment
- AllSource 41800 Bead Blaster

## PAINTING & SILKSCREENING

- 1 Wet Spray Open Face booth.
- 2 ovens – enhanced duty walk-in series EWN-820-8G – 20' x 12' & 12' x 10'
- 2 Powder coating booth 20' x 12' – Recovery system model PNR-2088
- MSP 3140 Silk screening equipment
- Iron Phosphate pretreatment – spray system.
- Phosphate Coating Thickness Lab with Mettler-Toledo MS Series precision scale & Scilogex MS-H280-Pro heated stirrer.

## CLEANING

- Branson 2024 detergent wash/DI water wash/rinse system with ultrasonics & cleanroom pass-trough's

## CLEANROOMS

- 1 gowning room
- 2 ISO 5 (Class 100) cleanrooms for orbital welding/gas line welding and assembly
  Equipped with Liburdi Dimetrics Orbital welding center with capability for 1/8" – ½" tubing.
- 1 ISO 6 (Class 1000) cleanroom for assembly and packaging
- 1 ISO 7 (Class 10000) cleanroom for value-add assembly
- Equipped with bright light & black light capability
- All rooms equipped with CDA, ultrapure N2 & N2 purge system for packaging
- Electrical, Mechanical & Electromechanical assembly capability
- All rooms & equipment are linked to "1factory" Process Capability & SPC data collection & real-time reporting.

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**ASSEMBLY (ISO 8 – class 100000)**

- 10,000 sq. ft. assembly area
- Electrical, Mechanical & electromechanical assembly capability

**SHIPPING**

- 900 sq. ft. cleanroom packaging area
- 10,000 sq. ft. kitting & packaging areas
- Videojet 1220 Part marking machine
- Cortec owns & operates its own fleet of delivery vehicles

With over forty-five years of experience in metal fabrication and assembly, Cortec is capable of meeting all your requirements from prototype and quick turnaround to long term and turnkey contracts. We proudly offer our facilities and capabilities and encourage customer surveys. Please contact us at your convenience to schedule a survey.

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