

Capacity

Swiss Automation, Inc. produces any size production run and supports shorter lead times due to our diverse Team running production 24/7 within our Two US Facilities. Our 2022 addition of 30,000sqft of manufacturing floor space then totaled 150,000sqft, will allow us to integrate 30-50 new machines. 325 Teammates are machining parts from .005"-2.75" diameters on our Swiss CNC Lathes, Multi-Turret Multi-Tasking CNC Lathes and up to 25" on our CNC mills.

Machine List

Bar Capacity of:

- 7 Citizen A20 VII – 3/4"
- 3 Citizen A20 VII – 1 1/4"
- 19 Citizen K16 (Types K16 VII, K16E) – 5/8"
- 7 Citizen L12 – 1/2"
- 10 Citizen L20 (Types IX, VII, X) – 3/4"
- 3 Citizen L32 Type XII – 1 1/4"
- 42 Citizen M16 (M16, Y-axis, Y&B Axis) – 5/8"
- 19 Citizen M20 (M20, Y-axis) – 3/4"
- 35 Citizen M32, (M5-32, Y-axis, Y&B-axis) – 1 1/2"
- 2 Citizen D25, (Y-axis, B-axis) – 1 "
- 1 Eurotech 420SLLY – 1 3/4"
- 9 Eurotech B465 (T3-Y3, T2/Y2, SY2) – 2 3/4"
- 1 Eurotech B436-Y2 Rapido – 1 3/8"
- 2 Hardinge GT – 1 "
- 1 Miyano BNX-51MSY – 2 "
- 1 Miyano BNA-42DHY – 1 5/8"
- 3 Star SB20R IV – 3/4"
- 10 Star SR10-J – 3/8"
- 3 Star SR-10J Type C – 3/8"
- 9 Star SR20R IV – 3/4"
- 1 Star SV20 – 3/4"
- 2 Star SW12-R11 – 1/2"
- 2 Star SW20 – 3/4"
- 12 Tornos Deco & EvoDeco 10 – 3/8"
- 4 Tornos EvoDeco 16 – 5/8"
- 1 Tornos SwissNano 7 – 1/4"
- 3 FANUC Robodrill Mill (24k & 10k) – dual 4th axis 27" x 15" x 15"
- 1 Cincinnati CNC robotic Infeed Centerless Grinder

We use FMB, IEMCA, Cav and Tornos bar loaders.

Tool Room Equipment

- 2 Bridgeport Model J Vertical Milling Machines
- 2 14" x 40" Tool Room Lathes
- 2 Brown & Sharpe 6 X 18 Surface Grinders
- 7 Agathon Diamond Wheel Tool Grinders
- 1 Haas CNC Mill

Inspection Equipment

- 9 14" O.G.P. Optical Comparators with DRO
- 4 CCP CC-14 Optical Comparators
- 16 Surface Plates with Height Gauges
- 15,000+ Assorted Micrometers, Dial Micrometers, Pin Gauges, DiaTests
- 6 Mitutoyo Model SJ400 profilometers - (surface roughness measurement)
- 50 Nikon Microscopes 8X to 50X (SMZ745 & SMZ645)
- 1 O.G.P. Programmable Smart Scope CMM
- 1 Mitutoyo RA-400 Roundness & Cylindricity checker
- 3 Mantis Magnified Viewers
- 4 Oasis Core Inspection System (Core & CoreX2)
- 1 Beta LaserMike 4025G
- 1 Z-Mike BenchMike
- 1 Hommel Opticline
- 5 Keyence (IM-6601E, IM-7020, IM-830)
- 3 Tesa 730063
- 6 Universal K1-10
- 3 Universal K2-10
- 1 Mitutoyo SV3100H4
- 8 Mitutoyo TM-505
- 1 Zeiss O-Inspect Multi-Sensor CMM 11.8"x 7.8"x 7.8"
- 1 Zeiss Contura Bridge CMM 27.5"x 27.5"x 23.6"
- 1 MahrForm MMQ 400

Secondary Equipment

- 20 Drill Presses 1/2" Capacity with Production Tables
- 2 Nichols Production Horizontal Milling Machines, 5HP
- 2 Sweco Vibratory Finishing Machines
- 1 Giant Finishing Vibratory machine
- 1 Sunnen Production Hone
- 4 Hardinge Speed Lathes
- 1 Lewis 3024-SH Ultra Sonic Cleaner
- 6 Trinco Blasters
- 3 Clemco Blasters
- 1 Comco Microblaster

Secondary Processes

- 1 In-house Citric Passivation ASTM A967
- 1 Twin Robot Vision guided Secondary Preparation Cell
- 1 Kennametal C-250 Thermal Deburr Machine
- 1 Extrude Hone Thermal Deburr Machine
- 1 iFP High Volume Vacuum Chamber Parts Washer (mod. alcohol or solvent, + dry RP) (KP150 & KP50)

Programming Equipment

- 4 Esprit CAM programming Software seats
- 6 SolidWorks Premium CAD Software seats