



OVERVIEW for BUYERS

CUSTOMER PRODUCTION FIT with EMI

PRODUCTION VOLUME

Low

GOOD

Low-Medium

GREAT!

Medium-High

GREAT!

Ultra High

Not Good

MANUFACTURING PROCESSES



CNC MILLING ($\pm 0.0001"$, ± 0.00254 mm)

5-Axis: 24.5"L x 28.5"W x 20"H
4-Axis: 34"L x 10" diameter
3-Axis: 62"L x 24.5" diameter; 62"X x 30"Y x 27"Z

CNC GRINDING & HONING

SURFACE: 32"L x 16" W @ $\pm 0.0002"$ (± 0.00508 mm)
ID: 22"L x 5" ID @ $\pm 0.0002"$ (± 0.00508 mm)
OD: 30"L x 6" OD @ $\pm 0.0003"$ (± 0.00762 mm)

CNC SWISS & LATHE ($\pm 0.0001"$, ± 0.00254 mm)

... to 24" diameter and 70"L (Swiss turning to 1.49606", 38mm)

CNC WIRE EDM

... to 19.6"H

JOINING – Welding & Brazing

TYPES: MIG, TIG, Purge, Sanitary, Low Temp, Fuse, Torch

SHEET METAL

SIZE: 10' bed length; wide variety of materials & thicknesses

MATERIALS & SURFACE TREATMENTS

METALS

- Ferrous, Non-Ferrous, Exotic

PLASTICS & COMPOSITES

- More than 20 types

MARKING & ENGRAVING

- Laser Marking & Engraving, Electrochemical Etching, Silk Screening, Pad Printing, Machine Engraving

SURFACE FINISHING – CHEMICAL

- Anodizing, Electro- & Electroless Plating, Passivation, Painting, Powder Coating, Electropolishing, Conversion Coatings, etc.

SURFACE FINISHING – MECHANICAL

- Deburring, Media Blasting, Polishing, Tumbling

HEAT TREATMENT

- Annealing, Tempering, Hardening, Stress Relief



QUALITY ASSURANCE & CERTIFICATIONS



CERTS & REPORTING

FAI, AQL, CTQ Certs As Required

LAB INSPECTIONS

Non Destructive & Destructive Testing

SAMPLING PLANS

Customized Plans Available

INSPECTION DATA

Ideagen Quality Control Data Warehouse

INSPECTION TOLERANCES

$\pm 0.0001"$ (± 0.00254 mm)

VALUE-ADDED SERVICES

ASSEMBLY SERVICES

Mechanical Assembly

ENGINEERING SUPPORT

DFM & DFA Analysis

CLEAN ROOMS

Sanitary Assembly in Class 8 Rooms

STOCKKEEPING

For Blanket Purchase Orders

VENDOR TRANSITION SUPPORT

Smooths the Path

ISO 9001:2015

NAICS: 332710, 33721

CAGE CODE #6Y843

ITAR Registered

CMMC Level 2 in Process

Evans Machine Co., Inc.
 Brockton, MA 02302
 O: 508 584 8085



SUBMIT RFQ

EQUIPMENT LIST





QUALITY ASSURANCE TOOLS

CMM - COORDINATE MEASURING

- **Carl Zeiss Spectrum 7/10/6 with RDS (x2)**
 - GD&T confirmation 700mm × 1000mm × 600mm
- **Brown & Sharpe Microval 343**
 - 14" (X) × 16" (Y) × 12" (Z)

VISION SYSTEM

- **Keyence IM8030**
 - Accuracy and Resolution ± 1 μm
 - Field 11.81" × 7.87" (300 × 200 mm)

COMPARATOR

- **Mitutoyo with Quadracheck PH-3500**
 - 10" X-axis × 6" Y-axis
 - Up to 100x magnification

XRF - X-RAY FLUORESCENCE

- **Hitachi X-MET8000 Handheld Analyzer**
 - Identifies & confirms a wide range of materials

ADDITIONAL QUALITY MEASURING TOOLS

- **BORES** 1/8" to 10"
- **PINS** 0.0100 to 1.0100 diameter (Deltronic)
- **THREADS** English & Metric; left & right hand

CERTIFICATES, SAMPLING, TOLERANCES & MORE

- **CERTS & REPORTING**
 - FAI, AQL, CTQ Certs As Required
- **SAMPLING & INSPECTION PLANS**
 - Customized Plans Available
- **INSPECTION TOLERANCES**
 - ±.0001" (±.00254 mm)
- **INSPECTION DATA**
 - Ideagen Data Warehouse

SURFACE ROUGHNESS

- **Mitutoyo SJ-220 Profilometer**
 - Z-Axis 360 μm (-200 μm to +160 μm)

HARDNESS

- **Wilson Rockwell Hardness Tester with Zerominder**
 - B-Scale and C-Scale Measurements

LENGTH, WIDTH & HEIGHT

- **Vernier Calipers** 4" to 6 feet
- **TESA Micro-Hite (x6)** 16 - 24"

LAB INSPECTIONS

- **Non Destructive & Destructive Testing**

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PRODUCTION EQUIPMENT

CNC MILLING 5- Axis, 4-Axis & 3-Axis

DMG MORI DMU50 one w/ 10 pallet system	x4
DMG MORI DMU75	x1
DMG MORI DMC75 w/ 3 pallet system	x1
FANUC ROBODRILL (alpha) - D21LiB5ADV	x1
FANUC ROBODRILL (alpha) - D21LiB5ADV Plus	x1
FANUC ROBODRILL (alpha) - D21MiA5	x1
FANUC ROBODRILL (alpha) - T21iEL with 4th axis	x1
FANUC ROBODRILL (alpha) - Ti4iD	x2
MAZAK HCN-5000 Horizontal Center w/ 24 pallet system	x2
MAZAK HCN-4000 Horizontal Center w/ 6 pallet system	x1
YCM SUPERMAX NXV 1680A	x1
YCM SUPERMAX NXV 1020A	x2
YCM SUPERMAX NSV 156 A with 4th axis	x1
YCM SUPERMAX NSV 102 A	x1
YCM SUPERMAX XV 1020A	x1
YCM SUPERMAX XV 1020A	x1
YCM SUPERMAX MV 76A	x1
YCM SUPERMAX JC12	x1
TRAK DPM2 BED MILL [BRIDGEPORT]	x3
SHARP PROTO TRAK M2 MILL [BRIDGEPORT]	x1
ACU-RITE MILL [BRIDGEPORT]	x1

CNC WIRE EDM

Sodick VL600QH wire EDM ... up to 19.6" height
Sodick VL400Q wire EDM

MARKING & ENGRAVING

Trumpf TruMark Station 5000 4-Axis Laser
LectroEtch Marking

WELDING & BRAZING

MIG Welding	Low Temp Welding
TIG (Heliarc) Welding	Fuse Welding
Purge Welding	Torch Brazing
USDA Sanitary Welding	Soldering

CNC SWISS & LATHE

CITIZEN L-32X Swiss Lathe w/ 12' Edge Bar Feeder	x1
CMZ TTL-66-66-T1Y-T2Y w/ LNS Bar Feeder	x1
DMG MORI EcoTurn 450	x1
NAKAMURA-TOME SC250 w/ LNS Bar Feeder	x1
NAKAMURA-TOME TMCD-15	x1
YCM TC 36W	x1
TRAK TRL 2470 SX 24" Diameter Lathe	x1
TRAK TRL 2460 SX 24" Diameter Lathe	x1
TRAK TRL 1630 SX 16" Diameter Lathe	x1
EISEN 1980G	x1
KENT ML-17x40 COLLET LATHE	x1
EZ Path [BRIDGEPORT]	x1

CNC MILL/TURN CENTERS

NAKAMURA WT300 w/ LNS Bar Feeder	x1
NAKAMURA WT150 w/ LNS Bar Feeder	x1
DMG MORI NLX 2500 / 700	x2
DMG MORI NLX 2500 / 1250 with Steady Rest	x1
DMG MORI NLX 2000	x1
YCM Supermax GT300MA	x1

CNC GRINDING & HONING

Okamoto Surface Grinder ACC-1632GX ... to 16" x 32"
Harig Super 618 Surface Grinder
Norton OD Grinder
Sunnen SV-15 Automatic Vertical Honing
Sunnen MBB-1660 Automatic Horizontal Honing

ADDITIONAL EQUIPMENT

Band, Chop & Plastics Saws
Diamond Wheel Abrasive Saws
Empire Media Blasting Cabinet
Tumblers
40 Ton Press
Leak Testing Tank ... 8' circumference

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