OVERVIEW for BUYERS

CUSTOMER PRODUCTION FIT with EMI

PRODUCTION VOLUME	Low	Low-Medium	Medium-High	Ultra High
	GOOD	GREAT!	GREAT!	Not Good

MANUFACTURING PROCESSES

CNC MILLING (±.0001", ±.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	@ ±.0002"	(±.00508 mm)
ID:	22"L x 5" ID	@ ±.0002"	(±.00508 mm)
OD:	30"L x 6" OD	@ ±.0003"	(±.00762 mm)

CNC SWISS & LATHE (±.0001", ±.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	±.0001" (±.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) x 16" (Y) x 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 x 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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TÜV SÜD ISO 9001

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