

# BRIDGING THE GAP IN MODERN MANUFACTURING



## INSIDE EM2 MACHINING'S AS9100 CERTIFIED CAPABILITIES AND ADVANCED CNC TECHNOLOGY



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# THE QUALITY GAP IN MANUFACTURING

In today's competitive landscape, manufacturers face a consistent challenge; finding machining partners that can deliver high-quality, repeatable results across multiple industries.

Many suppliers lack the certification, technology, or process control to ensure reliability at scale. Others specialize too narrowly, making it difficult for OEMs and Tier suppliers to consolidate their manufacturing needs under one trusted partner. The result? Delays, inconsistencies, and costly downtime.

## EM2 MACHINING BRIDGES THAT GAP

By combining advanced multi-axis CNC equipment, automated production systems, and AS9100-certified quality management, we deliver end-to-end precision for every part, every time. From single prototypes to full production runs, we help manufacturers achieve the consistency their industries demand—without compromise.

Manufacturing has evolved, but not all machining partners have evolved with it.

As industries push for tighter tolerances, faster turnaround, and cross-sector flexibility, the demand for a partner who can deliver consistent precision and reliability has never been greater.

Our AS9100 certification is more than a badge, it's a system of accountability that ensures every process meets the highest industry standards.

Developed for the aerospace and defense sectors, AS9100 certification encompasses process traceability, documentation control, and continuous improvement, principles we apply to all customer projects, regardless of size or sector. This certification gives our partners confidence that their components will be built right the first time, on time, and to spec.

Located in Greensboro, North Carolina, our 23,000-square-foot facility houses state-of-the-art multi-axis machining centers, automated pallet systems, and high-pressure coolant technology. Every component that leaves our shop embodies the same promise, certified precision and measurable performance.



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# Machining Overview

Machine	Description	Axis	Spindle Speed (RPM)	Travel (X,Y,Z in)	Tool Capacity
Doosan NHP-5000	High Performance Hoizontal Machining Center	Full 4th axis drive	15000	(28.7, 28.7, 34.6)	275
Doosan VC 630/5AX	Simultaneous Machining Center	5 Axis Machining Center	12000	(25.6, 30.1, 20.5)	120
Doosan DNM 5700	Vertical Machining Center	3 Axis	12000	(41.3, 22.4, 20.1)	60
Feeler HV1000	Vertical Machining Center	3 Axis	15000	(40, 20 20)	--
1 Matsuura MAM 600	Horizontal Machining Center	4 Axis	1500	(23.6, 23.6, 24.6)	--
1 Matsuura H Plus 300	Horizontal Machining Center	--	1500	(20, 22, 20)	--
Matsuura RA II	Vertical Machining Center	--	--	--	--
1 Star SR-32	CNC Swiss Turn Screw Machines	6 axis programmable machining	--	--	--
1 Star SR-32	CNC Swiss Turn Screw Machines	6 axis programmable machining	--	--	--
1 Star SB-20	CNC Swiss Turn Screw Machines	--	--	--	--
1 Star VNC-20	CNC Swiss Turn Screw Machines	--	--	--	--
1 Mori Seiki NLX2500	SY Turning Center	Y axis 7 axis	4000	--	--
1 Mori Seiki NLX2500	SY Turning Center	Y axis 7 axis	4000	--	--
Doosan Puma 2600	SY Turning Center	Y axis machine	4000	--	--
Takasaw	Turning Center	--	4000	--	--
2 Hitachi Seiki Hi cell	T23 Turning Center	Y axis machine	3000	--	--
Yang	CNC Turning Center	--	6000	--	--
Yuasa PM Indexer	--	--	--	--	--
Bortz Surface Grinder	--	--	--	--	--
Omada Saw	--	--	--	--	--
DoAll 2013-2 Band	Contouring Machine				
Zeiss Contura 10/12/6	Coordinate Measuring Machine				
Nikon 16 inch	Optical Comparator				
Starrett Rapid check II					
Sunnen Bore Gauge PG800					
Starrett Bench	Micrometer 0-2"				
Deltronic Gauge Pins					



## At EM2 Machining, technology drives precision.

Our advanced equipment lineup combines multi-axis capability, automated pallet systems, and high-speed spindles—enabling us to tackle complex geometries, tight tolerances, and high-volume production with ease.

### Quality Assurance You Can Measure

True precision is proven, not promised.

Our CMM technology, Renishaw probing, and ISO-aligned quality systems ensure every part meets design intent and specification.

We deliver:

- First Article Inspections (FAI)
- In-process and final inspection reports
- Complete material traceability
- Continuous improvement tracking

By blending automation with human expertise, we maintain the highest standards of accuracy and repeatability across every production run.

### Core Competencies

- 3-, 4-, 5-, and 9-axis CNC machining
- Complex geometry milling and turning
- Automated pallet and pool systems for 24/7 production
- $\pm 0.005$  mm accuracy on Swiss-type turn screw machining
- Full documentation, FAI reporting, and inspection traceability

### Capability Highlights

- Full 5-axis machining for complex geometries
- Automated systems enabling lights-out production
- Tight-tolerance control for demanding industries
- Renishaw probing and CMM inspection for total quality validation
- Process efficiency that reduces cycle time and improves consistency



True precision is proven, not promised.

That's why EM2 Machining integrates quality assurance at every stage, from setup through final inspection.

Our CMM technology, Renishaw probing, and ISO-aligned quality systems ensure every part meets design intent and specification.

We deliver:

- First Article Inspections (FAI)
- In-process and final inspection reports
- Complete material traceability
- Continuous improvement tracking.

By blending automation with human expertise, we maintain the highest standards of accuracy and repeatability across every production run.

## Your Partner in Certified Precision

At EM2 Machining, we believe precision is more than a capability, it's a commitment.

We don't just deliver components; we deliver confidence through collaboration, communication, and certified quality.

From initial design support to final inspection, our team ensures your parts are built right the first time and every time.

## Industries We Serve

Our advanced capabilities support a wide range of industries that demand precision, performance, and dependability.

- Aerospace: Flight-critical components built to AS9100-certified standards.
- Medical Devices: Precision components for surgical, diagnostic, and implantable systems.
- Defense: Durable parts engineered for mission-critical performance.
- Industrial & Automotive: High-volume CNC production for OEM and Tier suppliers.

Our flexibility allows us to apply aerospace-grade precision to every project, no matter the sector.

## Ready to Bridge the Gap in Your Supply Chain?

Work with an AS9100 certified CNC manufacturer trusted by leading companies across aerospace, medical, and industrial sectors. [► Request Your Quote Today](#)



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*"Doing it right the first time is our standard."*