

Aurelian Manufacturing

Production as a Service

Autonomous, Data-Driven, and Scalable

Who We Are

A business that scales with the combined value of skilled people and machines.

Aurelian Manufacturing delivers autonomous, high-mix/low-volume (HMLV) CNC machining with unprecedented efficiency and reliability.

Target market is demanding sectors like defense, energy, maritime, and critical industrial sectors with:

Turning and milling services in lights-out environment.
High machine utilization vs. industry 30-40%.
Full digital traceability from order to delivery.
Customer-aligned value model with shared benefits.



The HMLV Landscape

We understand what drives excellence in High-Mix/Low-Volume production



Linear Operations Model

Manual to semi-automatic processes require significant human intervention. Each setup, adjustment, and quality check depends on operator skill and availability—limiting scalability and consistency.



Greenfield Advantage

Designing HMLV operations from scratch enables purpose-built automation, integrated digital systems, and optimized workflows—without legacy constraints or retrofit compromises.



Skilled Workforce Evolution

Excellence in HMLV requires transitioning from manual operators to automation specialists—engineers who design, monitor, and optimize autonomous systems rather than run individual machines.



Smart Factory Architecture

True HMLV leadership demands integrated digital infrastructure: automated CAM, real-time monitoring, predictive maintenance, and full traceability—not incremental automation additions.

The Aurelian Approach



Extreme Automation

Lights-out HMLV operation. High uptime and minimal human intervention



Industry-Leading Efficiency

60-65% utilization vs. industry 30-40%, translating to competitive pricing



Full Digital Traceability

Complete visibility from order to delivery with integrated quality control

Digital Infrastructure

What You Get Beyond Machining Services



eSECURITY – IT/OT & Value Chain Security

Zero-trust architecture protecting your data and ensuring compliance for defense and critical industries



eDOC – Digital Documentation & Traceability

Full traceability from order → CAM → production → measurement → delivery. Single source of truth for both parties



eMRB – Digital Deviation Management

Systematic quality control with traceable decisions, reducing risk and improving first-time-right performance

Customer Benefits

- ✓ Reduced lead times through lights-out automation
- ✓ Lower supply chain risk with reliable backup capacity
- ✓ Full transparency and traceability for regulatory compliance
- ✓ Competitive pricing through extreme automation efficiency
- ✓ Quality consistency with digital quality control
- ✓ Flexible capacity scaling as your needs grow

Collaboration Models

Flexible Engagement Options

Collaboration Framework

- Shared performance upside
- Secured machining capacity
- Customer-influenced shop scale-up
- Reporting and quality reviews within Aurelian's digital platform (mrb's).



Built on Trust

Aurelian ↔ Customer

Long-term thinking

Mutual success

Transparent communication

Production Capabilities

Current Capacity:

- Location: Våler, Østfold
- First phase: 2,635 m² production floor
- Initial: 8 CNC machines, automation cells.
- Scalable to 20-25 machines in same facility

Strategic Infrastructure:

- Multi-modal logistics (rail, sea, road and air)
- 30,000 m² total buildable area
- Partnership with Mazak (tier-1 CNC supplier)

Q3 2027
First Production

12 Months

From Investment to Production

Mazak Partnership

Quality & Compliance

Full Traceability

Component tracked from raw material to delivery.

Digital Quality Control

Automated measurement and documentation (eMRB, eDOC)

Regulatory Compliance

We build for defense, energy, and critical industry standards. Customer influenced.

Continuous Improvement

Data-driven processes, AI optimization and (self)learning.

Why Choose Aurelian

Factor	Traditional Shops	Aurelian
Machine Utilization	30-40%	60-65%
HMLV Flexibility	Limited	Optimized
Digital Traceability	Manual/Partial	Full End-to-End
Pricing Model	Standard Markup	Efficiency + Performance upside
Automation Level	Semi-automated	Lights-Out Operation
Lead Time Predictability	Variable	Highly Predictable

Getting Started



1. Initial Discussion

Understanding your production requirements and volume forecasts

2. Capability Assessment

Review technical specifications and quality requirements

3. Partnership Structure

Discuss pre-qual, service agreement or strategic partnership options

4. Pilot Production

Start with sample parts to demonstrate quality and efficiency

5. Full Production Launch

Scale to ongoing production with full digital integration

Let's Build Together

Aurelian Manufacturing

Production as a Service

Contact us to discuss your manufacturing needs

Våler, Østfold | Norway