

# 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.

Sweet Spot

**60-65%**

Machine Utilization

**Lights-Out**

Autonomous Operation

# 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 m<sup>2</sup> 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 m<sup>2</sup> 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