

McCALLUM

MANUFACTURING CONSULTING

MORE PROFITABLE PRODUCTION FROM THE EQUIPMENT YOU ALREADY OWN.

Independent CNC process optimization for manufacturers who need better throughput, lower cost per conforming part, and more reliable production.

TECHNICAL CAPABILITIES

- 01 PROCESS OPTIMIZATION**
Cycle times, toolpaths, machining sequences, throughput
- 02 FIXTURE & WORKHOLDING DESIGN**
Fixture concepts, rigidity, repeatability, part access
- 03 SETUP EFFICIENCY & ERGONOMICS**
Changeovers, part handling, operator ease of use
- 04 TOOLING & MACHINING STRATEGY**
Tool life, cutting parameters, difficult materials
- 05 TROUBLESHOOTING & RELIABILITY**
Root-cause analysis, process stability, quality
- 06 MANUFACTURING PLANNING & ECONOMICS**
Routings, capacity, bottlenecks, cost per part

NO TOOLING SALES. NO VENDOR COMMISSIONS.

Independent recommendations based on your operation and economics.

A FRESH PERSPECTIVE ON YOUR PRODUCTION

FIND THE CONSTRAINT. IMPROVE THE PROCESS.

Your team keeps production moving. McCallum Manufacturing Consulting provides dedicated, independent analysis of opportunities that daily demands can leave unexplored. From cycle time and tooling to workholding and utilization, recommendations focus on lower cost per conforming part and greater profitability from existing equipment.

PROCESS ASSESSMENT

1

DISCOVER

Discuss part families, production targets, recurring issues, and constraints.

2

OBSERVE & MEASURE

Review current workflows, cycle times, setups, tooling, and quality considerations.

3

PRIORITIZE

Identify opportunities based on likely impact, effort, and production risk.

4

REPORT

Deliver a written assessment with actionable recommendations and next steps.

ABOUT THE CONSULTANT

Christopher McCallum brings approximately 15 years of hands-on CNC machining and programming experience, including complex multi-axis work, process development, fixturing, and production problem-solving.

REQUEST A PROCESS ASSESSMENT

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