

Plastics Manufacturing Consulting

Your Industry Expert, Marty Key

- Training
- Part Validation
- Mold/Plant Design Review
- Process Improvement
- Manufacturing Support
- Quality Systems

With over 20 years of injection molding, consulting and training experience, Marty Key helps customers improve molding operations and profitability. Offering a range of consulting services, Marty delivers proven solutions from eliminating processing headaches to solving organizational challenges.

Marty's extensive expertise and unique technical skills result in measurable manufacturing improvements.



Diverse Roles Include:

- Training and Consulting
- Technical Operations
- Engineering
- Management

Experience With:

- Project Management for Strategic Sourcing
- Tool Design Coordination
 - Mold Builders and Mold Acceptance
- Tool Transfers - Reshoring or External

Equipment Experience Includes:

- Injection Molding Machines
- Robotics
- Conveying
- Automation Cells
- Monitoring and Control Systems
- Vision Systems
- Hot Runner Controllers
- Various Auxiliary Systems.

Let us help you:

- Train Process Tech
- Reduce Cycle Times
- Process Development & Mold Acceptance
- Improve Part Quality

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Process Development	Marty has over 15 years of experience in developing and documenting processes based on scientific injection molding principles. This rigorous development leads to a consistent, robust, repeatable process.
Process Validation	Marty conducts essential medical molding background validation of the injection molding process through Design of Experiments (DOE), Installation Qualification (IQ), Operational Qualification (OQ), and Performance Qualification (PQ).
Failure Investigation and Corrective Action	Extensive experience allows Marty to create a structured approach to determining the cause and contributing factors of a product or process failure. This can include corrective action planning and implementation.
Foundational Molding Instruction	Marty will advance your employees' understanding of essential material handling, mold set up, processing and troubleshooting through hands-on classroom based training.

Manufacturing Support

- Project Management
- Cell Layout
- Lean Manufacturing
- 5S Methodology
- SMED Implementation
- Failure Investigation
- Corrective Action

Process Improvement

- Process Consulting
- Machine Selection
- Material Handling Instruction
- Mold Set Up Instruction
- Process Improvement
- Cycle Time Reduction
- Technology Implementation
- Instrumented Molding Implementation
- Machine Testing and Assessment

Validation

- Tool Launch
- Tool transfer
- Process Development
- Design of Experiments (DOE)
- Installation Qualifications (IQ)
- Operational Qualifications (OQ)
- Performance Qualifications (PQ)

Founded in 2004, ZAG is a leading supplier of high-quality plastics manufacturing equipment and technical services. Our talented team delivers manufacturing solutions improving our customers' profitability and success.