



PLASTIC PART INJECTION INDUSTRIALIZATION

HIGH TECH



Shorten Ramp up Time and Maximize Productivity

DELMIA's Plastic Part Injection Industrialization solution for the High Tech Industry delivers a 3D experience to make manufacturing processes more predictable, while quickly ramping up productions to the targeted volume & quality. DELMIA's High Tech Plastic Part Injection Industrialization connects production process and quality data. Contract manufacturers receive instant explanations about deviations or any unexplained defect during ramp up or daily production.

Explanations of root causes are extracted automatically from the production data and proposed to quality engineers as rules combining process parameters. Rules capture best practices in natural language. They are used to quickly find perfect parameter settings and give clear recommendations to shop floor workers during real-time execution.

DELMIA High Tech Plastic Part Injection Industrialization is a proven and scalable production intelligence solution that enables contract manufacturers to formalize manufacturing knowledge across the extended enterprise, to optimize their shop floor processes and product quality for plastic injection.



Analyze shop floor data.



Discover hidden root causes of previously unexplained defects.

INDUSTRY CHALLENGES

- How to rapidly develop new production technology to build increasingly complex products?
- How to meet aggressive production launch dates and volume ramp-ups?
- How to understand and prevent process control difficulties that result in variable product quality and rework?

SOLUTION HIGHLIGHTS

- Connect to process and quality data
- Analyze collected data without a degree in statistics
- Extract rules, in natural language, from the production data that explain the reasons for defects
- Patented rule generation algorithm and user interface allows discovery of hidden relationships between production data records

SOLUTION VALUES

- Ramp up production quickly by finding perfect parameter settings for a complex production process
- Remove unpredictability by analyzing shop floor data to discover hidden root causes of previously unexplained defects
- Formalize manufacturing knowledge by capturing best practices in natural language rules for clear recommendations to shop floor workers during real-time execution
- Scale-up production volume by monitoring shop floor data to quantify the risk of defects and proactively prevent scrap and rework

USERS

• Quality Engineers



Delivering Best-in-Class Products

S CATIA

3S SOLIDWORKS 3D Design

35 SIMULIA

Realistic Simulation

Digital Manufacturing and Production

3s enovia

Collaborative Innovation

About Dassault Systèmes

SGEOVIA Model and Simulate our Planet

SEXALEAD Information Intelligence

inonination intelligence

Dashboard Intelligence

Social Innovation

3D Communication

Dassault Systèmes, the **3D**EXPERIENCE Company, provides business and people with virtual universes to imagine sustainable innovations. Its world-leading solutions transform the way products are designed, produced, and supported. Dassault Systèmes' collaborative solutions foster social innovation, expanding possibilities for the virtual world to improve the real world. The group brings value to over 150,000 customers of all sizes, in all industries, in more than 140 countries. For more information, visit www.3ds.com.

CATIA, SOLIDWORKS, SIMULIA, DELMIA, ENOVIA, GEOVIA, EXALEAD, NETVIBES, 3DSWYM and 3DVIA are registered trademarks of Dassault Systèmes or its subsidiaries in the US and/or other countries.

Europe/Middle East/Africa

Dassault Systèmes 10, rue Marcel Dassault CS 40501 78946 Vélizy-Villacoublay Cedex France

Visit us at

3DS.COM/DELMIA

Asia-Pacific

Dassault Systèmes Pier City Shibaura Bldg 10F 3-18-1 Kaigan, Minato-Ku Tokyo 108-002 Japan Americas

Dassault Systèmes 175 Wyman Street Waltham, Massachusetts 02451-1223 USA



Item: 3DS.WP.TRI.2012x.0417