

Answers for industry.

## Dimensional Planning and Validation Lite

Enabling small to medium sized manufacturers to reduce the time and cost of meeting quality targets

### Benefits

- Reduces the time and cost required to achieve quality targets
- Decreases time to market and factory downtime by providing in-depth analysis of build issues
- Increases product quality by enforcing data consistency
- Reduces manual effort needed to translate and consolidate multiple inspection results

### Summary

The ability to consistently deliver on quality targets and rapidly respond when issues occur is just as important to small manufacturers as it is to large original equipment manufacturers (OEMs). This is why Siemens PLM Software has developed Dimensional Planning and Validation (DPV) Lite, a solution for the collection, analysis and management of production quality results for the small-to-medium business (SMB) market.

From materials and components to critical phases in assembly, even the simplest operations can require a number of inspection machines, configurations and data formats

to assure dimensional quality throughout the build phase. DPV Lite automates the collection, translation and formatting of the latest inspection results from virtually any device, providing a consistent view of production quality in a single user interface. This means that your engineering teams can focus on solving problems and improving quality instead of spending time translating and consolidating disparate data sources.

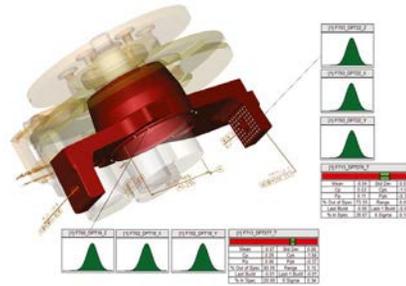
### Finding and fixing problems quickly

DPV Lite provides a consistent view of product quality throughout the build phase, and when problems arise, it helps you find and fix them so your firm can reduce time to market and return to profitability.

# Dimensional Planning and Validation Lite

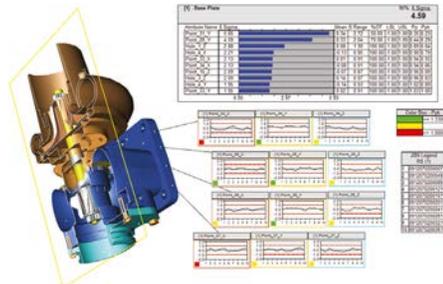
## Features

- Single UI combines all relevant information
- Small IT footprint ensures quick implementation
- Seamless access to product and process design information
- Visual representation of measurement data
- Variant and pallet analysis
- Visualize correlations with principal component analysis
- Correlation matrix
- Datum transformation
- Automated monitoring, charting and reporting
- Advanced data filtering and outlier detection



DPV Lite provides a core set of easy-to-use, yet sophisticated statistical techniques to improve the throughput of your inspection equipment, quickly drill down into measurement results to identify failure modes and visualize results to see what caused out-of-specification measurements.

**Improve your process framework results**  
DPV Lite supports a five-step trouble shooting framework that enables you to answer critical questions with actionable information.



For more details on the unique value of these features, go to: [http://www.plm.automation.siemens.com/en-us/products/tecnomatix/quality\\_mgmt/dim\\_plan\\_val/index.shtml](http://www.plm.automation.siemens.com/en-us/products/tecnomatix/quality_mgmt/dim_plan_val/index.shtml)

### 1 Trust the data

*Is it equipment variation or as-built results?*  
Distinguish between equipment variation and actual results. Data load validation rules assure data integrity while client side tools, such as advanced data filtering and outlier detection, help minimize misleading results.

### 2 Assess impact

*Does this impact final build quality?*  
Automated summary reports provide an intelligent, prioritized grouping of metrics to easily spot issues that impact variation and contribute to deviation tendencies in the final build.

### 3 Identify patterns

*Is there a pattern associated to something in the process?*  
Patterns like operator influence, tooling wear or multiline variation are easily visualized while powerful tools, such as principal component analysis and correlation matrix, minimize the use of trial-and-error methodologies.

### 4 Validate cause

*Have you identified the root cause and do you have a solution?*  
Statistical results are filtered and visually compared against the latest design and process information to quickly identify issues, like upstream contributors, and arrive at the root cause without impacting ongoing production.

### 5 Confirm closure

*Did the solution minimize variation and increase accuracy?*  
Automated report monitoring and predictive analysis confirms the process has stabilized. Tools such as mathematical datum transformation increases tuning accuracy without influencing measurement device throughput.

## Contact

Siemens Industry Software  
Americas +1 314-264-8499  
Europe +44 (0) 1276 413200  
Asia-Pacific +852 2230 3308

[www.siemens.com/plm](http://www.siemens.com/plm)

© 2013 Siemens Product Lifecycle Management Software Inc. Siemens and the Siemens logo are registered trademarks of Siemens AG. D-Cubed, Femap, Geolus, GO PLM, I-deas, Insight, JT, NX, Parasolid, Solid Edge, Teamcenter, Tecnomatix and Velocity Series are trademarks or registered trademarks of Siemens Product Lifecycle Management Software Inc. or its subsidiaries in the United States and in other countries. All other logos, trademarks, registered trademarks or service marks used herein are the property of their respective holders.  
Y7 33842 4/13 B