SEACAD

Focused, Proven, Credible.

SOLIDWORKS Inspection

	SOLIDWORKS INSPECTION STANDARD	SOLIDWORKS INSPECTION PROFESSIONAL
SOLIDWORKS Inspection Add-in		
SOLIDWORKS PDM Integration	✓	✓
SOLIDWORKS Part & Assembly Native File Support		✓
SOLIDWORKS Drawing Native File Support	✓	✓
Automatic & Manual Balloon Creation	✓	✓
Balloon Creation of Inspection Dimension Only	✓	✓
Hole Table Support	✓	✓
Balloon Formatting	✓	✓
Zone Support	✓	✓
Drawing Revisions	✓	✓
User Defined Inspection Methods and Processes	✓	✓
Quality Sampling Plans	✓	✓
SOLIDWORKS Inspection Standalone Application		
SOLIDWORKS PDM Integration	✓	✓
PDF and TIFF Files Support	✓	✓
DXF and DWG Files Support	✓	✓
2D CAD Files Support (Other than DXF/DWG Files)		✓
3D CAD Files Support		✓
Encrypted PDF Support	✓	✓
Smart Extract	✓	✓
Optical Character Recognition (OCR)	✓	✓
ExtractionXpert	✓	✓
Trainable Recognition Engine	✓	✓
Selective Recapture	✓	✓
Nominal Value and Plus/Minus Tolerances	✓	✓
Vertical and Rotated Dimensions	✓	✓
Bilateral Default Tolerances	✓	✓
Plus/Plus and Minus/Minus Tolerance	✓	✓
Upper and Lower Limits Calculation	✓	✓
Note, GD&T, and Finish Symbols	✓	✓

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Automatic Balloon Creation of Captured Characteristics	✓	✓
Customizable Balloon Numbering	✓	✓
Balloon Appearance Pre-sets	✓	✓
Multi-page Drawing Support	✓	✓
Multiple Drawings per Project	✓	✓
Multi-view 2D/3D CAD Support	✓	✓
Multiple 2D/3D CAD files per Project	✓	✓
Compare Drawing Revisions	✓	✓
Revision Management for 2D/3D CAD Files	✓	✓
Customizable Grid	✓	✓
Quality Sampling Plans	✓	✓
	Quality Systems Integration	
Publish to Net-Inspect and QualityXpert	✓	✓
Export to XML, Verisurf and CAMS XML	✓	✓
	Report Generation	
Export Ballooned Drawing to PDF	✓	✓
Export Inspection Report to Microsoft® Excel®	✓	✓
Template Editor	✓	✓
Pre-defined Industry Standard Templates (AS9102, PPAP, etc.)	✓	✓
Export Ballooned 3D CAD model to 3D PDF		✓
	Results Input	
Characteristics Measurements Input		✓
Bonus Tolerance Support		✓
Digital Measuring Tools Support (Digital Caliper, etc.)		✓
CMM Data Import (PC-DMIS, Calypso, Faro CAM2, etc.)		✓
CMM Template Editor		✓
Automatic Verification		✓
Color-Coded Characteristics (Pass, Marginal, Fail)		✓
Export Measurements		✓

What's SOLIDWORKS Inspection?

For companies that create inspection documents, SOLIDWORKS Inspection automates the ballooning of engineering drawings and 3D files with Product and Manufacturing Information (PMIs), minimizing the time needed to record inspection measurements, and streamlines the creation of industry standard inspection reports (AS9102, PPAP, & etc.) by leveraging your existing 2D and 3D CAD data.

3D Files Support

By leveraging existing 3D CAD files, users can streamline their quality control and documentation processes. The support of 3D data also enables companies to expand their drawing-less manufacturing strategy all the way to the quality department. This also eliminate the need to extract information from image type documents like PDF or TIFF files which could be significantly more time consuming.

2D Files Support

Leveraging 2D CAD files speed up the process and enables users to create their First Article Inspection Reports (FAIRs) in no time while completely eliminating errors.

Smart Extract

Extracting information from a PDF file using the Optical Character Recognition (OCR) tool can be time consuming if the drawing contains dozens or hundreds of characteristics. The new Smart Extract tool allows users to extract multiple characteristics at once if the PDF document used has a searchable text layer and support Smart Extract.

Sampling

Acceptance Quality Limit (AQL) is a method of sampling. It is adopted by many companies as the standard tool for choosing sample size for product inspection. SolidWorks Inspection users now have an effective approach to plan their quality control processes without having to rely on other tools.

Customizable Tolerance Type

Multipage drawings often have different tolerances defined on the title block of each page. The new customizable tolerance type feature enables users to quickly specific for one or multiple characteristics which tolerances should be applied.

Export to QualityXpert Improvements

QualityXpert is a shop floor manufacturing intelligence solution that enables small and medium-sized manufacturers to manage quality and gain actionable insights in real-time from their shop floor via mobile device.

Additional Net-Inspect Options

Net-Inspect is a web based quality management system. It is used by many large companies to manage their inspection processes both internally and with suppliers worldwide.
Users can now define more export options and parameters when exporting their inspection projects to Net-Inspect.

PDM Integration

Thanks to the SOLIDWORKS PDM integration, users can manage their overall product development with ease and include quality management as an integral part of the process.

Improved Optical Character Recognition (OCR) Engine

Improved OCR engine reduces the time spent correcting extraction errors and limit the need to create custom OCR dictionaries.

ExtractionXpert™

ExtractionXpert helps users save time by finding the best possible settings from over 200 settings such as Sharpen, Dilate, and Edge Enhancement Etc. for the Optical Character Recognition (OCR) engine in order to extract information from PDF or TIFF documents with higher accuracy.
ExtractionXpert also accounts for scaling and therefore eliminates the need to manually rescale PDFs or TIFFs drawings

Balloon sequence and Customizable Balloon Numbering

Using the new Balloon Sequence or Customizable Balloon Numbering, users can precisely balloon their documents without restrictions. With more flexibility, they can create exactly the report they are looking for efficiently.

Characteristics Identification with Balloon Appearance Presets

Users can quickly apply unique balloon appearances to special characteristics for easy identification when performing an inspection.

Revision Management for 3D CAD Files

Users can manage revisions with ease regardless if they are working on a 2D document or a 3D CAD file.

CMM Data Management Import

Users can import and assign their CMM result files faster with new filters to quickly highlight unassigned items.

Export to CAMS XML and Verisurf

Additional export options allow users to easily share their SOLIDWORKS Inspection projects with other quality management tools.

We will keep using SOLIDWORKS Simulation because it really helps to reduce the time to do the trials and reduce the prototyping process.

Frank Feng (Engineer)

Customer Success Story – Eliminating Airdrop System Assembly Issues with SOLIDWORKS Inspection

Image courtesy of Wamore

WAMORE, INC.

"From incoming part lots to in-process assembly inspections, SOLIDWORKS Inspection software helps us catch more unacceptable parts and eliminate assembly issues."

- Mark Gerhart, Confiuration Manager

Wamore, Inc.

By implementing SOLIDWORKS Inspection software, Wamore has improved the accuracy of incoming part inspections, reduced its inspection overhead, and eliminated the bulk of its assembly issues related to its air payload delivery systems.

Challenge

Improve the efficiency and accuracy of incoming part inspections to elevate inspection effectiveness and consistency, and eliminate product assembly issues.

Benefits

- Reduced inspection overhead substaintially
- Improved inspection accuracy dramatically
- Eliminated bulk of assembly issues
- Replaced paper inspection documents with automated, digital approach

ASSOCIATE Mechanical Design SOLIDWORKS | PROFESSIONAL Mechanical Design SOLIDWORKS | EXPERT Mechanical Design SOLIDWORKS | AUTHORIZED Reseller SOLIDWORKS | CERTIFIED Advanced Services Provider SOLIDWORKS | CERTIFIED Training & Support Provider SOLIDWORKS | CERTIFIED Documentation Services Provider SOLIDWORKS

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