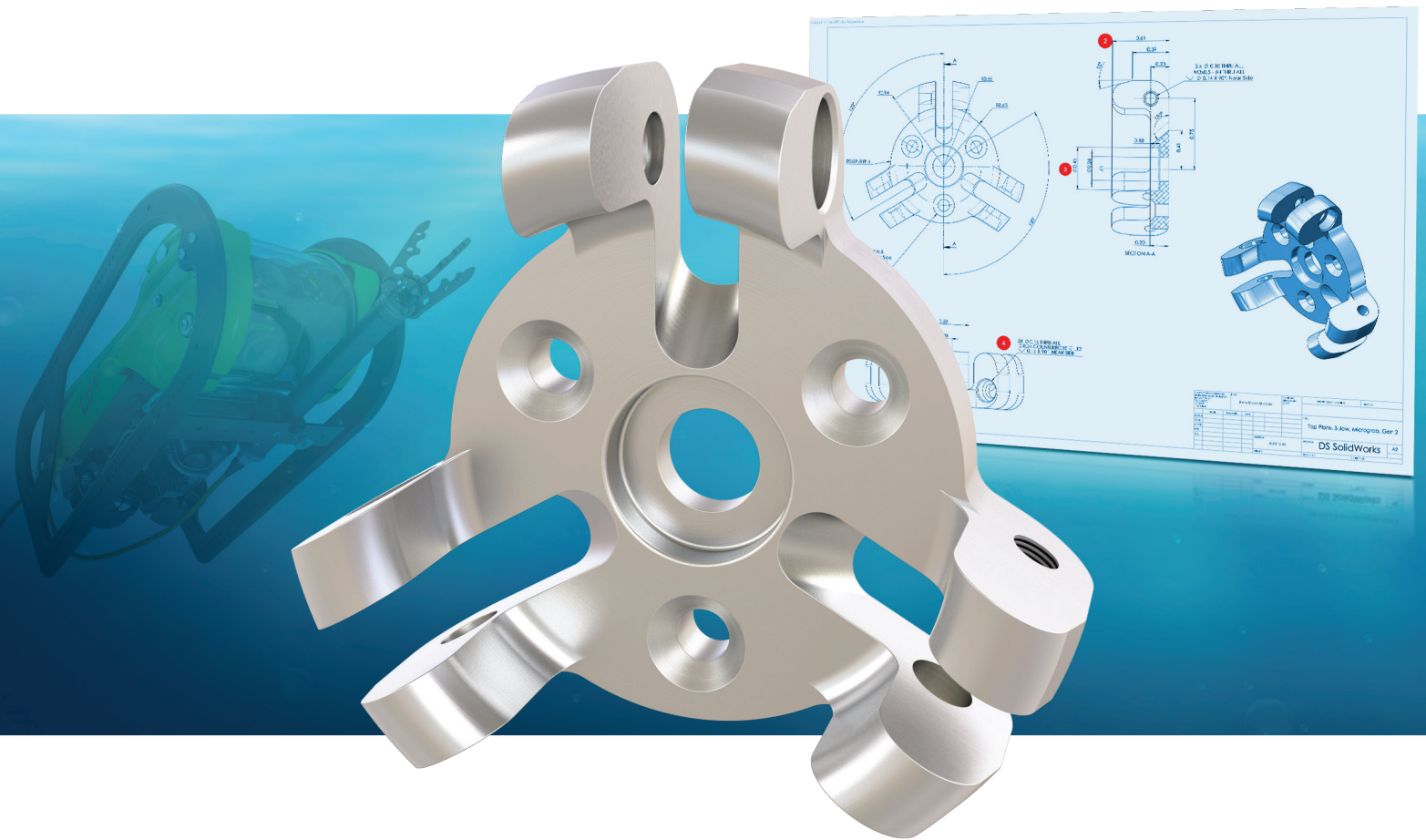


SOLIDWORKS INSPECTION

AUTOMATED CREATION OF INSPECTION DRAWINGS AND REPORTS



SIMPLIFY DOCUMENT CREATION TO HELP STREAMLINE PART INSPECTION AND IMPROVE QUALITY

Your commitment to quality should not negatively impact your business. You could waste hours every day manually creating documentation for quality inspection. SOLIDWORKS® Inspection helps simplify the process of creating inspection documents and performing in-process or receiving inspection.

Intuitive and easy-to-use, SOLIDWORKS Inspection helps streamline the creation of documents with balloon callouts and specifications by leveraging existing 2D legacy data regardless of file type—SOLIDWORKS files, PDFs, or TIFFs—and automating a manual and tedious process. Measured inspection values can be entered directly, either manually or

automatically, using a digital measuring instrument (such as a USB caliper). SOLIDWORKS Inspection helps designers and quality inspectors virtually eliminate errors, improve time-to-market, and ensure parts are within specifications for improved quality and optimized fit and function.

STREAMLINE YOUR QUALITY INSPECTION PROCESSES

Company quality departments are tasked with carrying out the quality inspection process. This often involves the creation of documents such as drawings with balloon callouts, reports for use during inspection, or additional deliverables required with parts.

This time consuming task is usually the responsibility of designers, engineers, and quality inspectors who can spend hours every day manually creating all these documents. Hundreds of characteristics, dimensions, tolerances, and notes have to be manually entered into a Microsoft® Excel® spreadsheet.

In addition, this redundant process is prone to human transcription error that can be costly over time or even jeopardize your quality commitments and certifications.

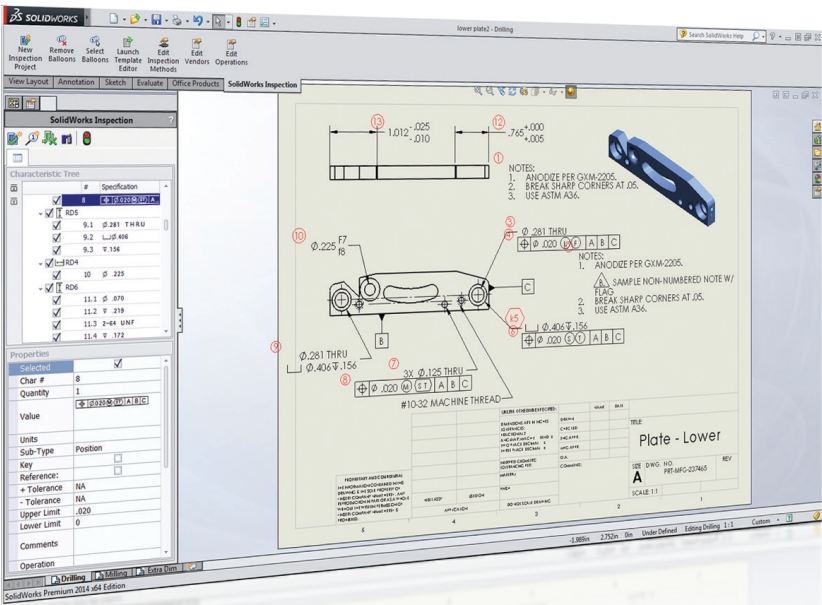
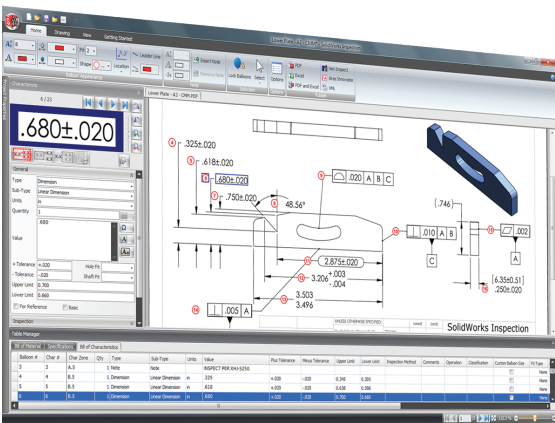
Any changes to the model by an engineer or customer can cause drawing revisions that require quality inspectors to redo the work and input all the characteristics again.

SOLIDWORKS Inspection streamlines your inspection processes by automating the creation of balloons on engineering drawings, and the creation of inspection data sheets and reports. Sequentially numbered balloons are applied automatically to help you keep track of the dimensions and characteristics to inspect. Accurate bubbled prints and inspection sheets are generated in just minutes. With SOLIDWORKS Inspection, companies have reduced the time to create First Article Inspection packages by up to 90 percent.

OPTICAL CHARACTER RECOGNITION (OCR)

In many companies, engineering drawings arrive in PDF or TIFF formats. In these cases SOLIDWORKS Inspection uses optical character recognition (OCR) to read and identify the nominal dimension, plus and minus tolerances, and the type of dimension (such as diametric or linear), helping to virtually eliminate manual input and reduce errors. It works with horizontal and vertical dimensions, split dimensions, notes, hole callouts, finish symbols, and geometric dimensioning and tolerancing (GD&T) symbols.

This means you can create your inspection documents regardless of your existing CAD system using the included standalone version of SOLIDWORKS Inspection.



First Article Inspection Report
Form 3: Characteristic Accountability, Verification and Compatibility

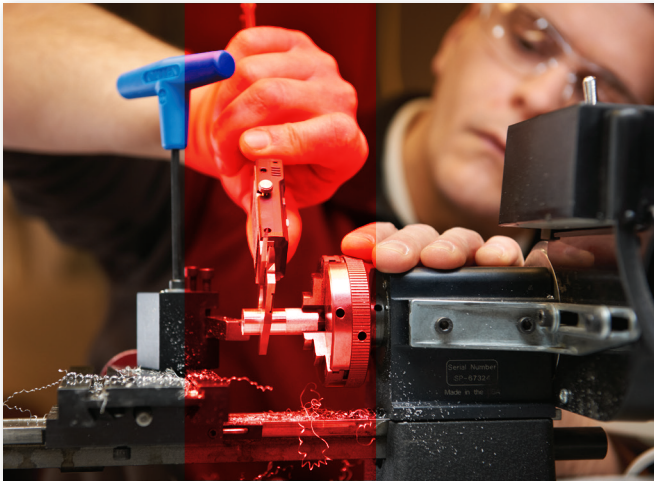
1. Part Number		2. Part Name		3. Inspection / Tool	
PRT-MFG-237465		PLATE - LOWER			
4. Char. No.	5. Reference Location	6. Characteristic	7. Requirement	8. Results	9. Tool
10. Char. No.	11. Reference Location	12. Characteristic	13. Requirement	14. Results	15. Tool
1	Lower Plate - A2	Note	ANODIZE BLUE PER XYZ-50.		
2	Lower Plate - A2	Note	BREAK ALL SHARP EDGES TO .05		
3	Lower Plate - A2	Note	INSPECT PER XYZ-5250.		
4	Lower Plate - A2	LINEAR	3.25	in	0.345
5	Lower Plate - A2	LINEAR	.618	in	0.598
6	Lower Plate - A2	LINEAR	.640	in	0.590
7	Lower Plate - A2	LINEAR	.750	in	0.780
8	Lower Plate - A2	ANGULAR	48.56	deg	48.55
9	Lower Plate - A2	PERPENDICULARITY	Flatness	in	0.010
10	Lower Plate - A2	PERPENDICULARITY	Flatness	in	0.010
11	Lower Plate - A2	LINEAR	2.875	in	2.885
12	Lower Plate - A2	LINEAR	3.206	in	3.202
13	Lower Plate - A2	LINEAR	3.503 / 3.496	in	3.501
14	Lower Plate - A2	PERPENDICULARITY	Flatness	in	0.005
15	Lower Plate - A2	PERPENDICULARITY	Flatness	in	0.005
16	Lower Plate - A2	LINEAR	.250	in	0.250
17	Lower Plate - A2	DIAMETRIC	.250	in	0.250
18	Lower Plate - A2	POSITION	Flatness	in	0.005
19	Lower Plate - A2	DIAMETRIC	.406	in	0.406
20	Lower Plate - A2	DIAMETRIC	.156	in	0.156
21	Lower Plate - A2	POSITION	Flatness	in	0.005
22	Lower Plate - A2	DIAMETRIC	.125	in	0.125
23	Lower Plate - A2	POSITION	Flatness	in	0.005

The signature indicates that all characteristics are accounted for, meet drawing requirements or are properly documented for disposition.

12. Prepared By

“With SOLIDWORKS Inspection at the most it would take us five minutes to create an inspection sheet. Without the software, it would have taken a technician one day to create that same inspection sheet.”

— PBC Linear



SOLIDWORKS Inspection provides flexibility by allowing quality engineers and inspectors to directly type in measured values, use a digital caliper, or import results from a coordinate measuring machine (CMM).

REDUCE TIME-TO-MARKET

SOLIDWORKS Inspection helps drastically reduce the time needed to generate inspection reports. In just a few clicks, you can create industry-compliant inspection reports (such as AS9102, PPAP, ISO 13485) or use the powerful template editor to develop a report that matches your company’s needs.










In addition, SOLIDWORKS Inspection helps avoid errors and inconsistencies traditionally associated with manual data input.

You can save time, lower costs, and win more business by eliminating the bottlenecks in quality inspection and increasing throughput in manufacturing.

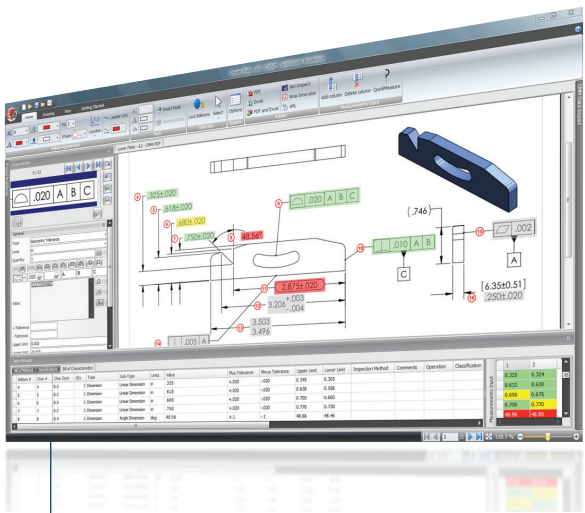
HELP IMPROVE PRODUCT QUALITY AND SAVE MONEY

Inspection documents can help your company significantly improve its manufacturing processes, reduce scrap, cut time-to-market, and improve product quality and reliability.

Because SOLIDWORKS Inspection is easy to use, integrated with SOLIDWORKS CAD, and available as a standalone application to work with your existing CAD system, you can easily deploy it, train your quality department, and start to optimize your inspection and quality processes.

Production Part Approval									
DIMENSIONAL TEST RESULTS									
Organization:					Part Number: Lower-Plate-001				
Supplier/Vendor Code:					Part Name: Plate - Lower, Drawing				
INSPECTION FACILITY:					Design Record Change Level				
					Engineering Change Document				
Item	Dimension/Specification	Specification / Limits	Test Date	Qty. Tested	Organization-Measurement Results (Data)			OK	Not OK
1.1	NOTES:								
1.2	1. ANODIZE BLUE PER XYZ-50.								
1.3	2. BREAK ALL SHARP EDGES TO .05								
1.4	3. INSPECT PER X.H.J-5250.								
2	 .002	in	0.002	0				X	
3	0.25	in	0.27	0.23				X	
4	 (.746)	in	REF	REF				X	
5	 .020	A in	0.02	0				X	
6	 .010	A in	0.01	0				X	
7	2.875	in	2.895	2.855				X	
8	3.206	in	3.209	3.202				X	
9	3.503	3.4	in	3.503	3.496			X	
10	 .005	A in	0.005	0				X	
11	0.75	in	0.77	0.73				X	
12	0.68	in	0.7	0.66				X	
13	0.618	in	0.638	0.598				X	
14	0.325	in	0.345	0.305				X	
15	48.56°	deg	49.56	47.56				X	
16	0.281	T H	in	0.286	0.276			X	
17	 0.020	in	0.02	0				X	
18.1	 0.406	in	0.411	0.401				X	
18.2	0.156	in	0.161	0.151				X	
19	 0.020	in	0.02	0				X	
20.1	0.125	T H	in	0.13	0.12			X	
20.2	0.125	T H	in	0.13	0.12			X	
20.3	0.125	T H	in	0.13	0.12			X	
21	 0.020	in	0.02	0				X	
22	0.75	in	Basic	Basic				X	

13. Date	
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Characteristics are automatically highlighted in green, red, or yellow to instantly show which are in tolerance, out of tolerance, or marginally within tolerance.

SOLIDWORKS PRODUCT DEVELOPMENT SOLUTION

SOLIDWORKS software provides users with an intuitive 3D development environment that helps maximize the productivity of your design and engineering resources to create better products faster, and more cost-effectively. See the full range of SOLIDWORKS solutions for design, simulation, technical communication, and data management at www.solidworks.com/products2015.

SYSTEM REQUIREMENTS

- Windows® 7 (preferably x64) or Windows 8
- 2 GB RAM minimum (8 to 16 GB RAM recommended)
- 50 GB disk space free (minimum)
- SOLIDWORKS-Certified graphics card
- Intel® or AMD® processor (4 to 8 cores recommended)
- Broadband Internet connection
- Microsoft Excel and Word (for reporting and exporting)

LEARN MORE

Visit www.solidworks.com/inspection or contact your local authorized SOLIDWORKS reseller to learn more.

Our 3DEXPERIENCE platform powers our brand applications, serving 12 industries, and provides a rich portfolio of industry solution experiences.

Dassault Systèmes, the 3DEXPERIENCE® 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 170,000 customers of all sizes in all industries in more than 140 countries. For more information, visit www.3ds.com.



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