2D/3D CAD data
Festo PARTdataManager

Instruction Festo CAD plug-in

FESTO

Festo CAD plug-in

Festo's CAD plug-ins assure a reliable link between the Festo PARTdataManager and your CAD system.

A Festo menu is added to your CAD system, by means of which part selection is seamlessly integrated.
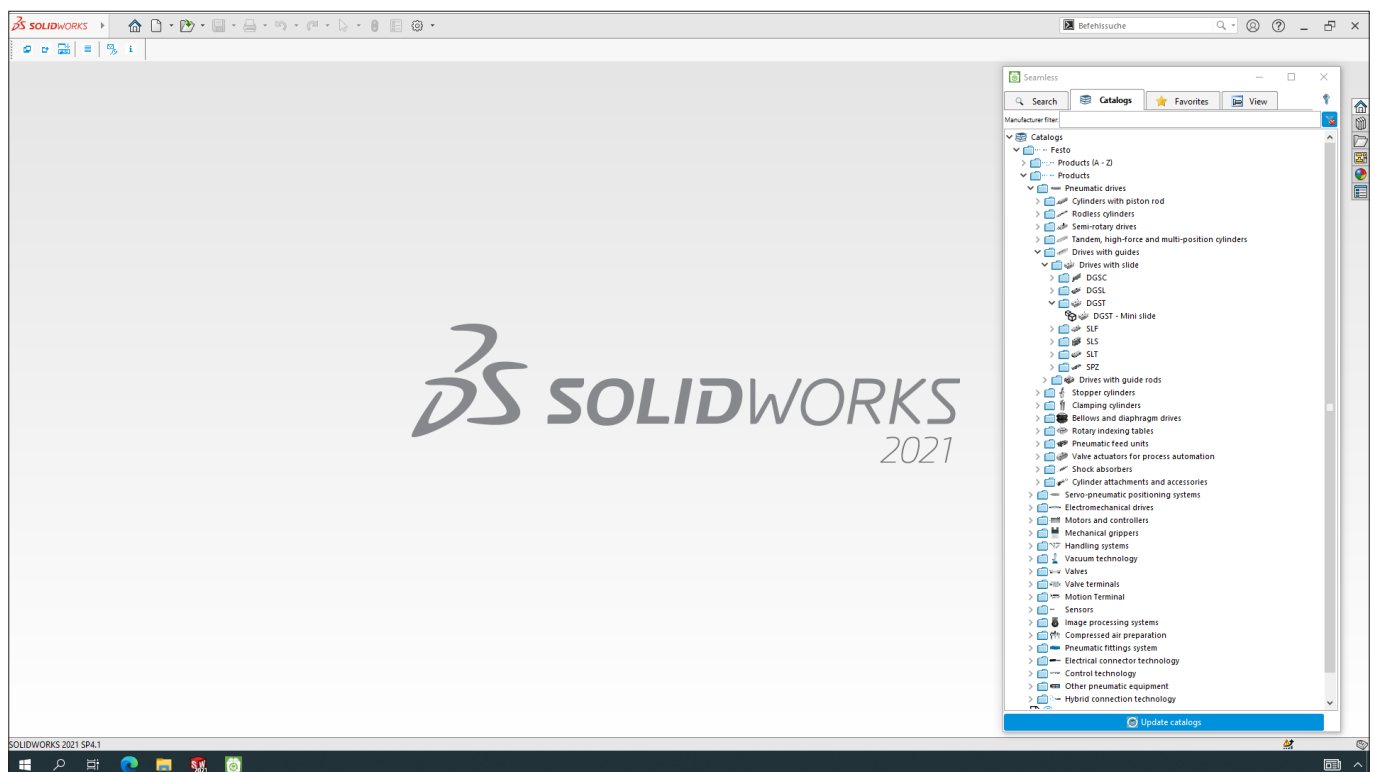
The CAD plug-ins must be activated before first use.

Advantages:
- Much faster component modelling
- Quick assembly layouts including matings
- Use of your own system templates
- Individualised configuration of interface settings

Festo CAD plug-in for:
- AutoCAD®
- Autodesk® Inventor™
- Creo®
- Pro/ENGINEER®
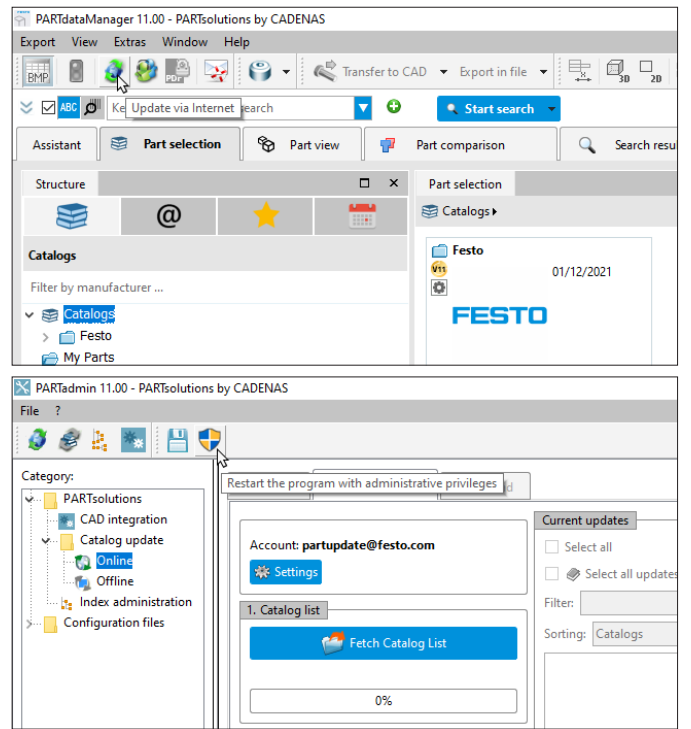- NX™
- SOLID EDGE®
- SolidWorks®

To activate the Festo CAD plug-ins, open PARTadmin via the button "Update via Internet".

Restart PARTadmin with administrative privileges.

Select the category „CAD integration" and activate the interface and the CAD plug-in.

Start your CAD system and take full advantage of the seamless integration of Festo CAD data.

CAD system	Installed CAD System found	Integration active	Module	Activate/Deactivate
Inventor 2020 64Bit	No			
Inventor 2021 64Bit	No			
Inventor 2022 64Bit	No			
NX10.0 64Bit	No			
NX11.0 64Bit	No			
NX12.0 64Bit	No			
NX 1847	No			
NX 1872/1899	No			
NX 1926/1953/1980	No			
SolidEdge ST6	No			
SolidEdge ST6 64Bit	No			
SolidEdge ST7 64Bit	No			
SolidEdge ST8 64Bit	No			
SolidEdge ST9 64Bit	No			
SolidEdge ST10 64Bit	No			
SolidEdge 2019 64Bit	No			
SolidEdge 2020 64Bit	No			
SolidEdge 2021 64Bit	No			
SolidWorks 2015 64Bit	No			
SolidWorks 2016 64Bit	No			
SolidWorks 2017 64Bit	No			
SolidWorks 2018 64Bit	No			
SolidWorks 2019 64Bit	No			
SolidWorks 2020 64Bit	No			
SolidWorks 2021 64Bit	Yes	Yes	C:\Program Files (x86)\Festo\CAD 2022\software\iface\soli...	Deactivate
Seamless Plugin 32 Bit	Yes	No		Activate
Seamless Plugin 64 Bit	Yes	Yes	C:\Program Files (x86)\Festo\CAD 2022\software\bin\x86\...	Deactivate

Festo's CAD plug-ins allow for a complete product selection process within the CAD system.

For example, the selected product can first be measured in 3 dimensions, and is only generated in the native format if it complies with engineering requirements. The engineer remains within the CAD system's user interface throughout the entire process. There is no bothersome changing back and forth between various applications.
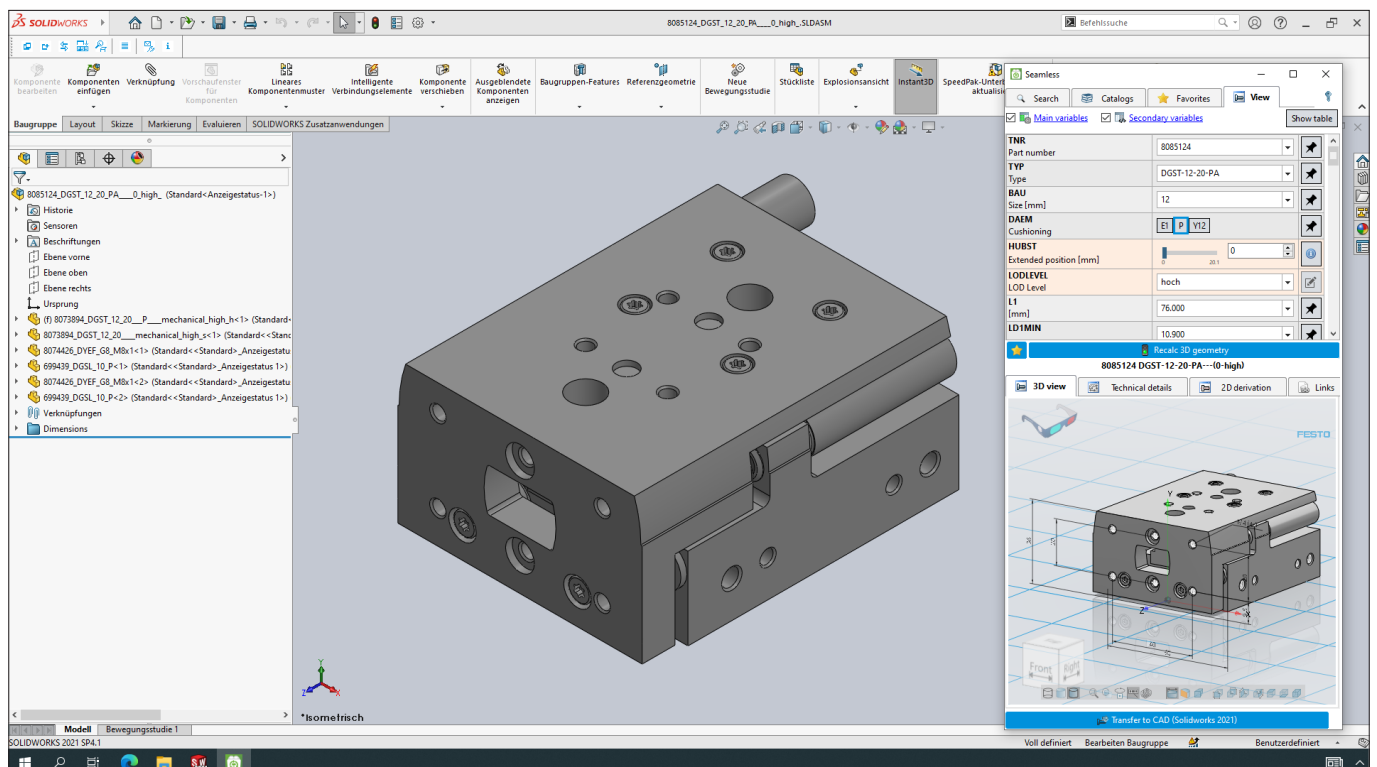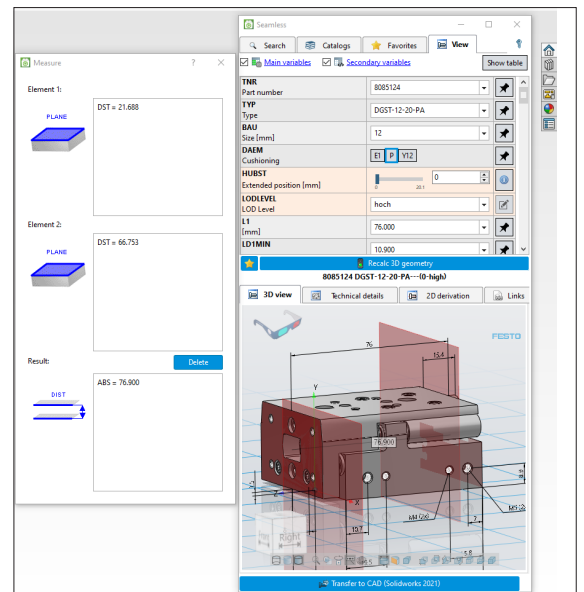
Seamless integration into Autodesk® Inventor™

Search for geometrical similarity

Load an available CAD model and use the geometrical search to find similar Festo products. This function can be used both within the CAD plug-in and also in Festo PARTdataManager.
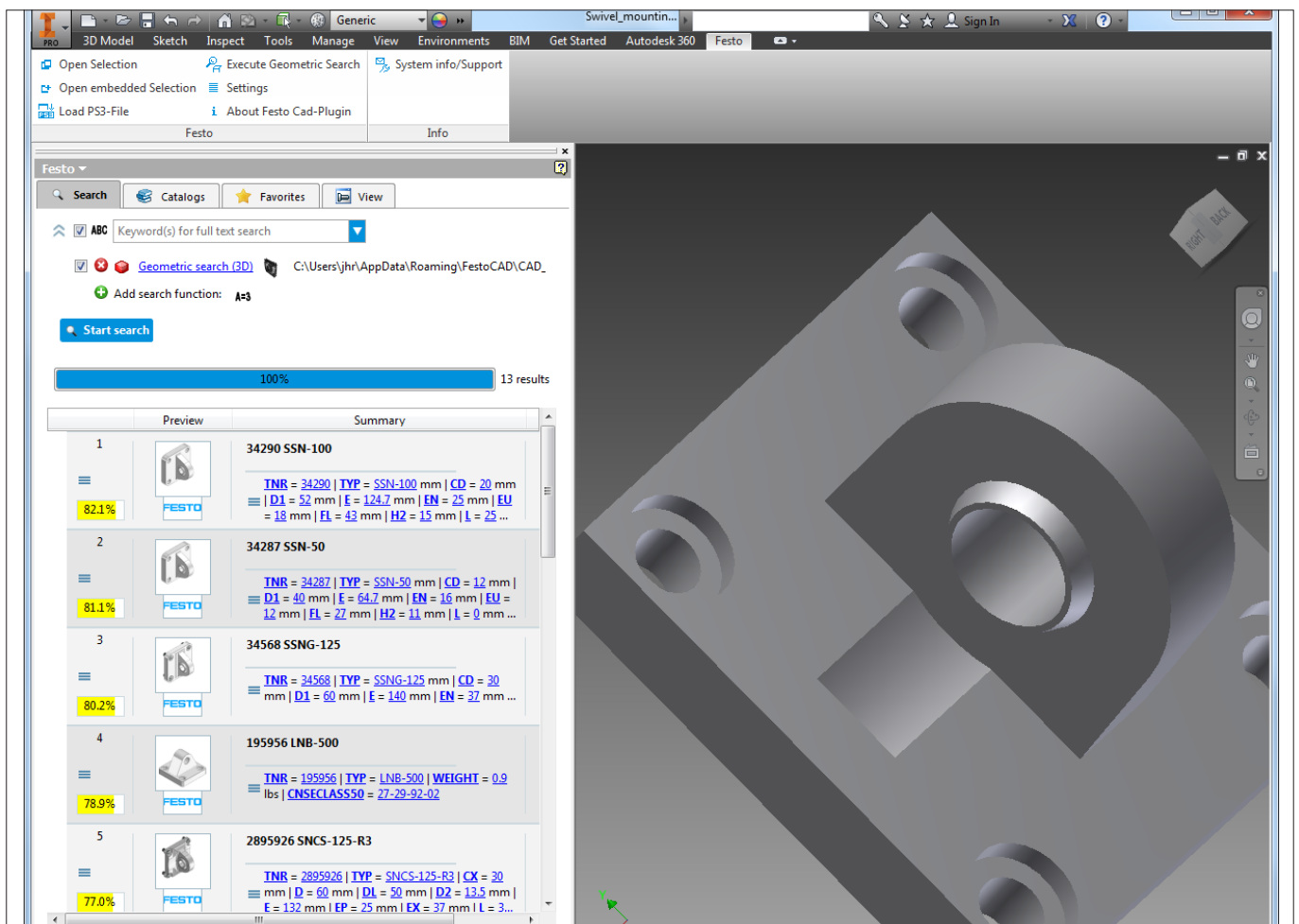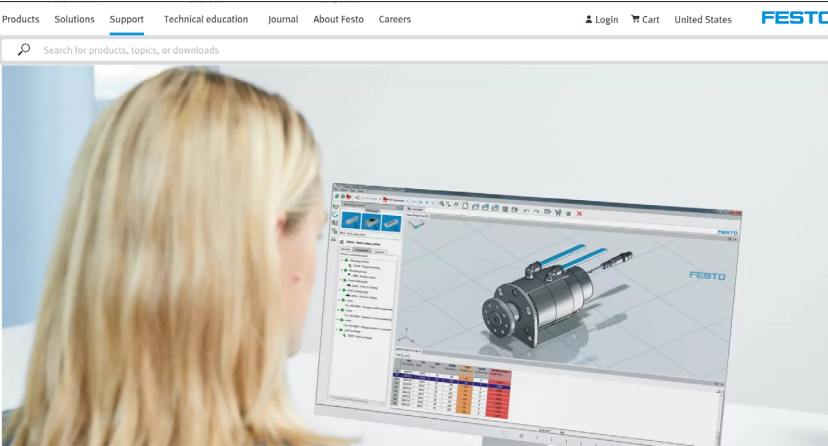
Overview of supported CAD systems

The table indicates for which combinations of CAD systems and operating systems the native CAD interfaces can be used.

CAD	Version	Win 8.1 x64	Win 10 x64
AutoCAD	2014	OK	–
	2015	OK	–
	2016	OK	OK
	2017	OK	OK
	2018	OK	OK
	2019	OK	OK
	2020	OK	OK
	2021	–	OK
	2022	–	OK
Creo Parametric	2.0	OK	OK
	3.0	OK	OK
	4.0	OK	OK
	5.0	OK	OK
	6.0	OK	OK
	7.0	OK	OK
	8.0	–	OK
Inventor	2014	OK	–
	2015	OK	–
	2016	OK	OK
	2017	OK	OK
	2018	OK	OK
	2019	OK	OK
	2020	–	OK
	2021	–	OK
	2022	–	OK
Siemens NX	8.5	OK	–
	9.0	OK	–
	10.0	OK	OK
	11.0	OK	OK
	12.0	OK	OK
	1847	–	OK
	1872	–	OK
	1899	–	OK
	1926	–	OK
	1953	–	OK
	1980	–	OK
Solid Edge	ST6	OK	–
	ST7	OK	–
	ST8	OK	OK
	ST9	OK	OK
	ST10	OK	OK
	2019	–	OK
	2020	–	OK
	2021	–	OK
Solid Works	2014	OK	–
	2015	OK	OK
	2016	OK	OK
	2017	OK	OK
	2018	OK	OK
	2019	–	OK
	2020	–	OK
	2021	–	OK

www.festo.com/cad

Take advantage of our CAD offerings on the Internet.

More than 220,000 downloads are started each month by users who access the latest CAD data directly via our website. Take advantage of this opportunity and select your preferred format from more than 45 available exchange formats – including new native formats. Click on the button "i-button" above the selection box of the data formats for further details.

CAD data are available for more than 33,000 products in several hundreds of thousands of variants via e-mail, download or direct to CAD function (PART2cad).

With the help of "CAD direct", you can access CAD data for the desired product by simply entering the part number.

2D/3D CAD formats on the Internet at www.festo.com

Neutral formats
Neutral formats such as SAT, STEP, IGES and DXF can be used in almost any CAD system.

Native formats
As opposed to neutral formats, native CAD formats offer several advantages:

- Part numbers and ID codes are integrated into the CAD model and the model's filename.
- No imported geometry, but rather dynamically generated data
- Part history

- Components which are fixed in space, as well as moving components such as extendable piston rods
- Component links (constraints, mates)
- Bill of materials information for collision relevant components
- Minimal file size

Macro-formats
These offer the same advantages as native formats, except that no component mates are possible. In some cases, this format cannot be used with the "open file" dialogue in the CAD system.

Advantage:
CAD data can be generated in your own start template.

Native				Neutral			
2D		3D		2D		3D	
Software	Version	Software	Version	Software	Version	Software	Version
AutoCAD	≥2004	3D Studio MAX		BMP (2D view)		DWG	2004 – 2013
CATIA IUA*	V4	AutoCAD	≥2004	BMP (3D view)		DXF	2004 – 2013
HP ME 10	≥V9	Caddy++	SAT-V4.2	DWF	ASCII 5.5	IGES	
Medusa*	≥2000i	CATIA*	≥V5 R8	DWF	Binary 5.5	JT	
VX (Varimetrix)	≥V5.0	CATIA**	≥V5 R8	DWF	Compressed 5.5	Metafile	V2
		CATIA IUA*	V4	DWG	2004 – 2013	Parasolid Binary	V15
		CoCreate Modeling*	≥2007	DXF	2004 – 2013	Parasolid Text	V15
		Creo Elements/Direct Modeling*	≥17	HPGL	V2	PDF	≥ 7.01
		Creo Elements/Direct Modeling**	≥13			SAT	V7.0
		Creo Elements Pro**	5	JPEG (2D view)		STEP	AP203
		Creo Parametric	2 – 7				
		Creo Parametric**	1 – 7	JPEG (3D view)		STEP	AP214
		COLLADA	COLLADA 1.5	Metafile	V1		
		IFC2x mesh		Metafile	V2	STL	
		Inventor	2017 – 2021	SVG		VRML	≥ V1.0
		Inventor**	2014 – 2021			Wavefront Adv. Visualizer	
		MegaCAD	SAT-V2.0			XGL	
		Siemens NX	8 – 1926				
		Siemens NX**	9 – 1926				
		SolidEdge	ST7 – 2020				
		SolidEdge**	ST6 – 2021				
		SolidWorks*	≥2001				
		SolidWorks**	2014 – 2021				
		Think3	≥2006,2				
		VX (Varimetrix)	≥V5.0				

*Makro-Format **Direkt to CAD function (PART2CAD)

CADENAS UNITES

COMPONENT MANUFACTURERS & SUPPLIERS WITH THE INDUSTRY!

CADENAS SOLUTIONS for **industrial buyers** of components

THE STRATEGIC PARTS MANAGEMENT

Sustainable cost reduction of standard, supplier and company parts for engineers and purchasers.

THE GEOMETRIC SIMILARITY SEARCH

Find available CAD geometries in a smart way and classify them semi-automatically.

CADENAS SOLUTIONS for **manufacturers & suppliers** of components

THE ELECTRONIC PRODUCT CATALOG

The software solution to create and promote Electronic CAD Product Catalogs.

THE SUPPLIER PORTAL

The platform improves the communication to external suppliers.

THE VERTICAL MARKETPLACES

Numerous online marketplaces to multiply your Electronic CAD Product Catalog.

THE PURCHINEERING CONCEPT

Improves the cooperation between purchasing and engineering.

(image source: CANVAS GmbH)

CADENAS Technologies AG

CADENAS is a leading software developer in the fields of strategic parts management and reduced parts multiplicity (PARTsolutions), as well as electronic CAD product catalogues (eCATALOGsolutions). With its custom tailored software solutions, the company creates a link between component manufacturers and their products, and the users.

With 300 employees at 14 international locations since 1992, the name CADENAS (Spanish for process sequences) stands for success, creativity, consultancy and process optimisation.

PARTsolutions – strategic parts management

70 % of all readily influenced, overall product costs can be traced back to planning during the R&D stage, and can be educed by means of strategic parts management.

At modern companies, the PARTsolutions strategic parts management system contributes to making components and standard parts easy to find, reducing their multiplicity and managing them. PARTsolutions software is seamlessly integrated into the process sequence, and thus covers the entire cycle.

Thanks to a link from PARTsolutions to data sources to existing CAD and ERP systems, users are provided with all functionrelated information at a single glance for researching and selecting parts.

Strategic parts management means:
- Costs are effectively and sustainably reduced.
- Processes are accelerated.
- The multiplicity of parts is reduced by means of consolidation.
- All information at a glance
- Finding instead of searching
- More elbowroom for creative ideas = engineering instead of administration
- Conserves company resources

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