

#### **FESTO**

# **CADENAS Industry Forum 2015**



Jürgen Herr

04.02.2015



## Agenda

- Overview Festo
- eCATALOGsolutions@Festo
  - Practical use of eCATALOGsolutions

- data supply
- Insights all about our CAD data creation process → data creation
- Festo Design Tool 3D

Fast, reliable and efficient when designing in 3D and ordering



## Festo – your world-wide partner in factory and process automation















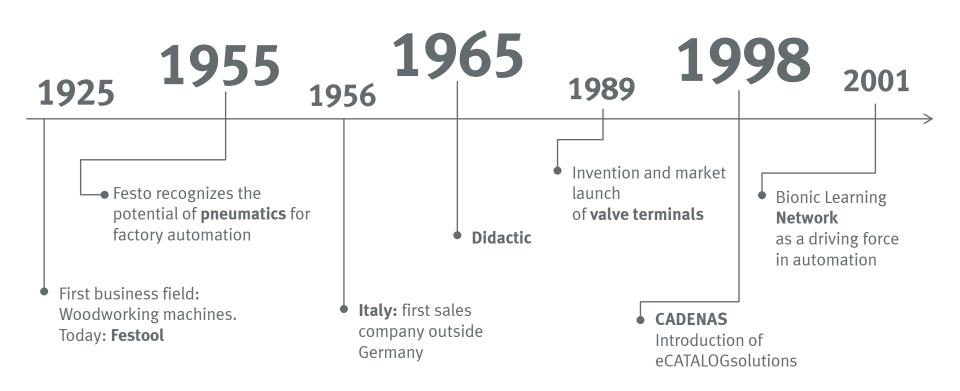


 Intelligent automation with pneumatic and electrical drive technology

- Factory automation
- Process automation
- Didactic
- Products
- Services
- Basic and further training

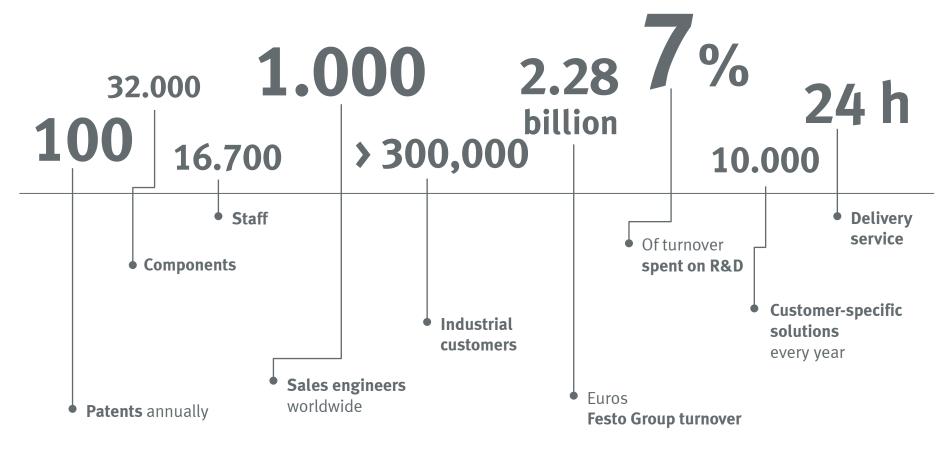


#### Our history - from woodworking to automation



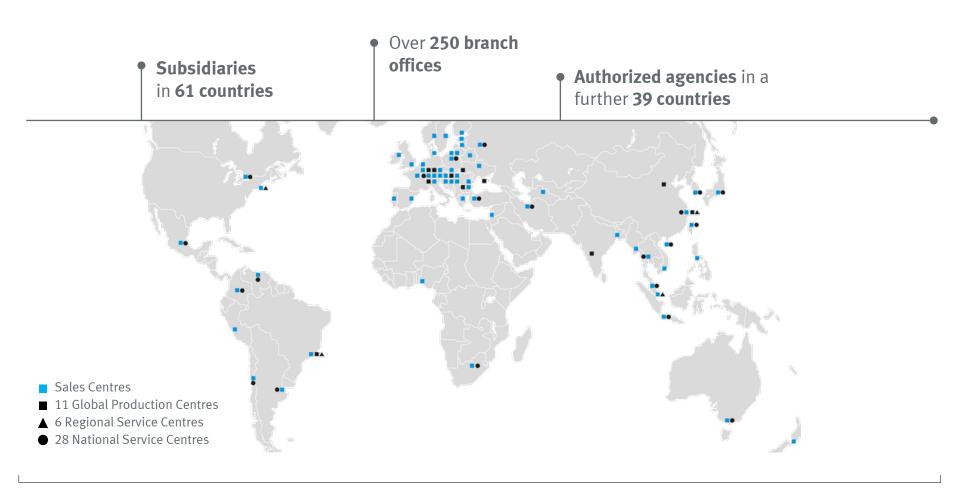


#### Festo in figures





## Production, logistics, service – in 176 countries worldwide





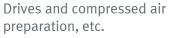
## Some examples of our sales products

• 32.000 products with millions of variants

connectors, sensors, etc.

• Simple connectors up to complex electrical and pneumatic systems







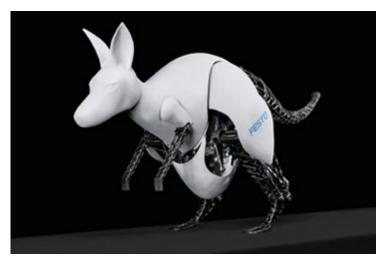
Valves, valve terminals, handling systems, ready-to-install solutions, etc.



## The Bionic Learning Network: providing an impetus for industrial applications

#### **Exploiting nature's efficiency strategy for the benefit of automation technology**

- Identifying new products and product ideas
- Testing new technologies and production methods
- Development of energy-efficient and biomechatronic products









## Agenda

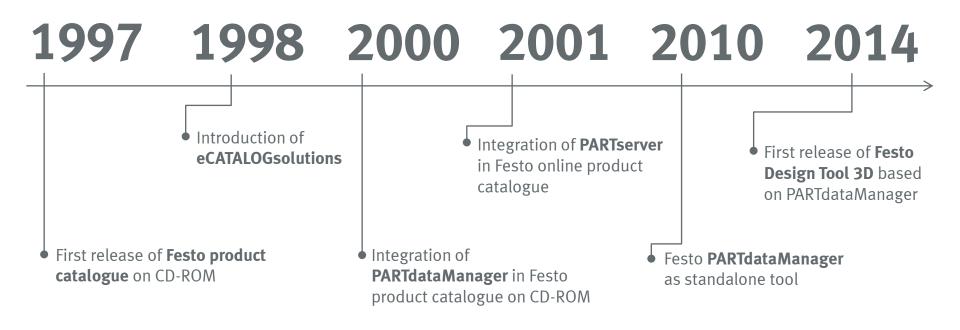
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→ data supply

Festo Design Tool 3D
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#### Historie

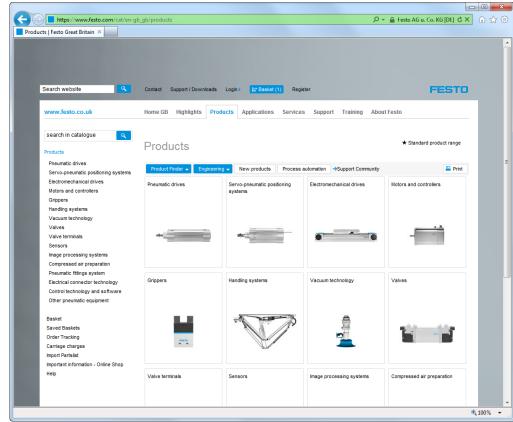


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#### Festo product catalogue

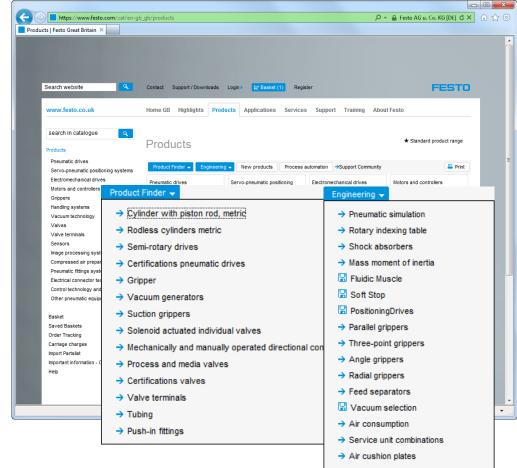
- 32.000 products in millions of variants
- Selection and engineering tools
- 2D/3D CAD data
- Technical data sheet and documentation
- Product compare
- Spare parts catalogue
- Delivery time
- Your price
- Developed by Festo





#### Festo product catalogue

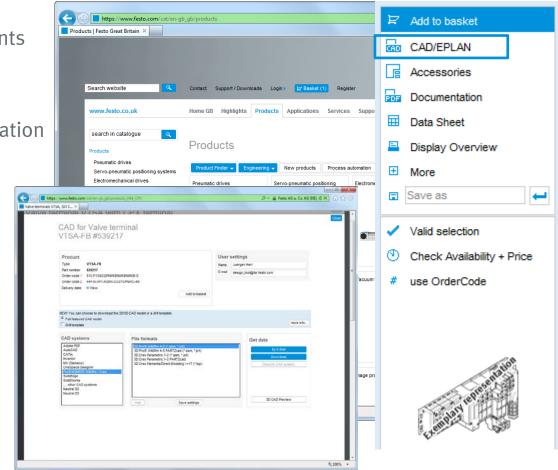
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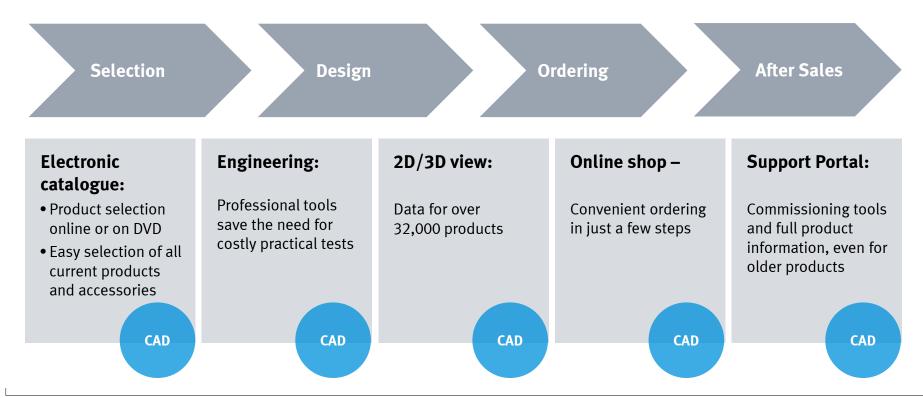
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#### From product selection to after sales

#### **Our Engineering Tools**



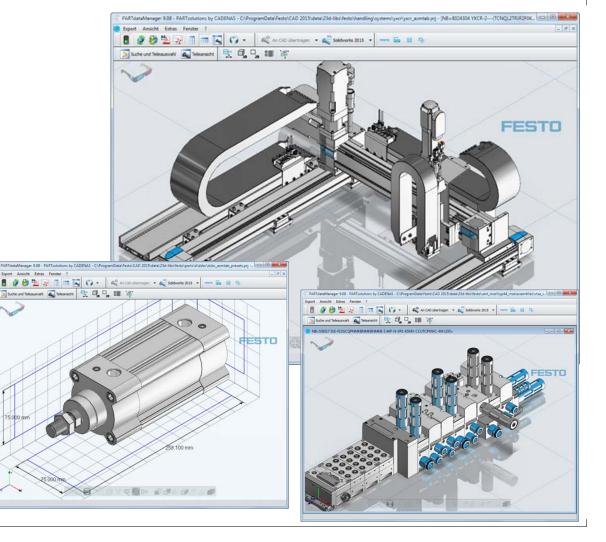
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## Requests on 2D/3D CAD

- For all of our catalogue products
- Standard and configurable products
- Simplified and function based
- Neutral and native CAD formats
- As local installed 3D tool and
- Via internet



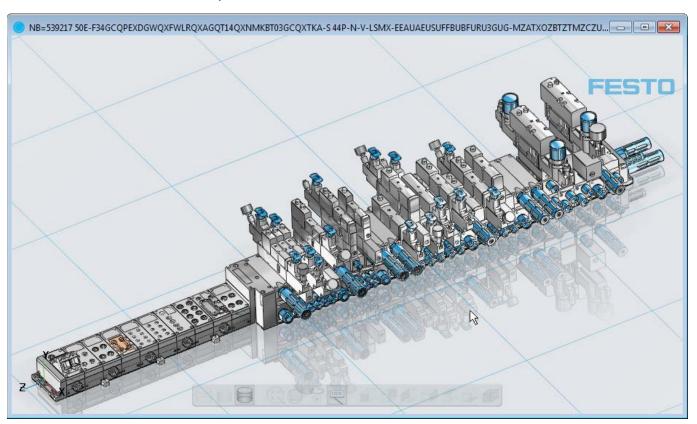




# **Example of a valve terminal**

Identcode 1: 50E-F34GCQPEXDGWQXFWLRQXAGQT14QXNMKBT03GCQXTKA-S

Identcode 2: 44P-N-V-LSMX-EEAUAEUSUFFBUBFURU3GUGMZATXOZBTZTMZCZULZDTNKZFUXZTHBZGXZUMOXZTZUMZAOZBTZTZU MZCTLZDXNZTKZHZUHBZIUMXZTOMZJXZUOZKTMZLTXZTZUL





#### **CAD** data supply

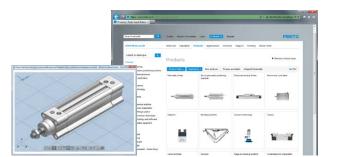
#### **PARTdataManager (offline)**

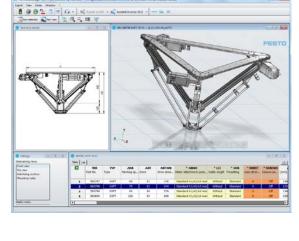
- Available via Festo product catalogue on DVD and
- Via Download at <u>Festo Support Portal</u>
- More information www.Festo.com/partdatamanager

#### PARTserver / PARTcommunity (online)

- Festo online product catalogue on the internet www.Festo.com/catalogue
- Cadenas CAD portal PARTcommunity

festo.partcommunity.com/portal/portal/festo



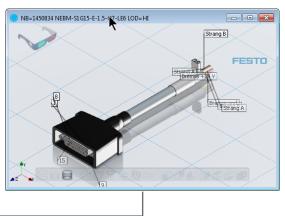




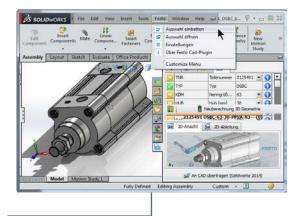


# Festo PARTdataManager





• CAD catalogue data

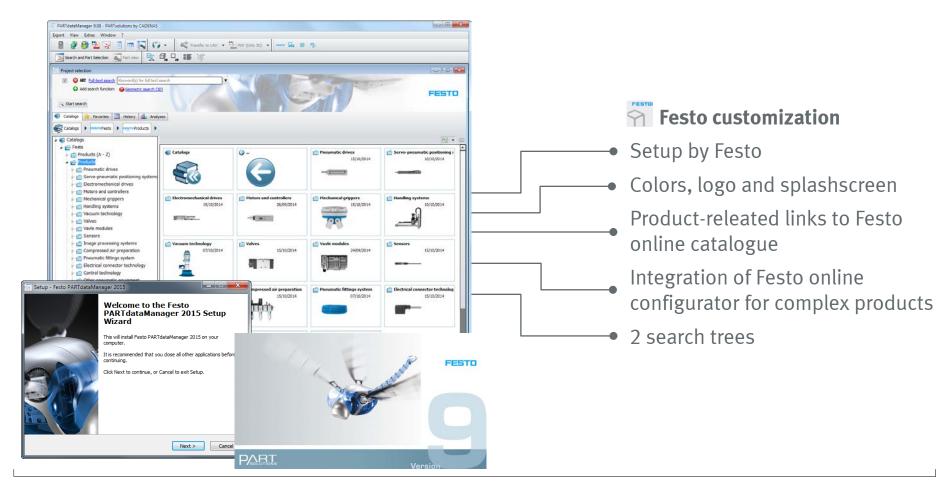


• CAD interfaces & functions

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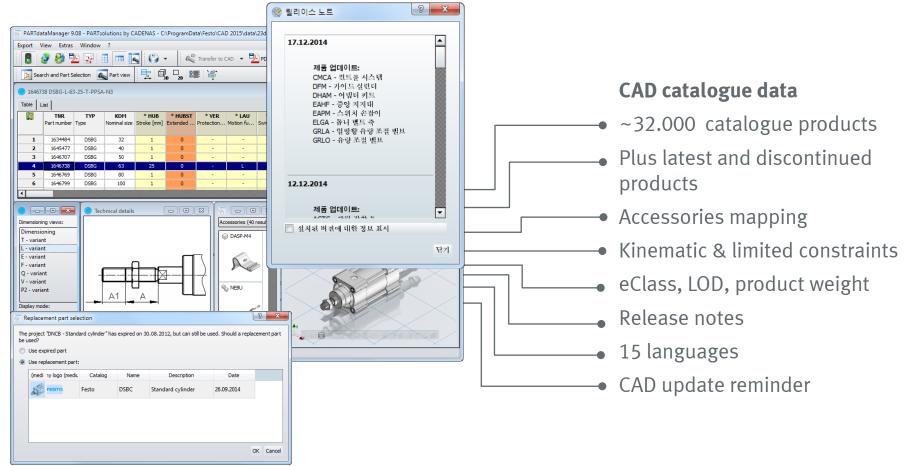


#### Festo PARTdataManager





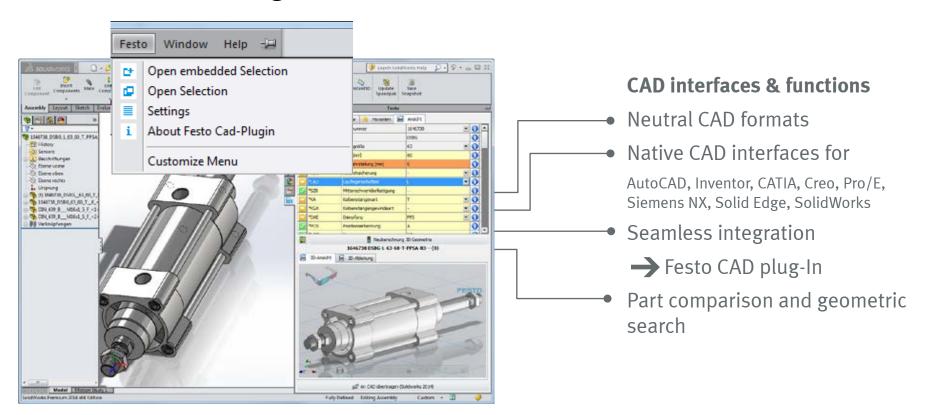






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#### Festo PARTdataManager



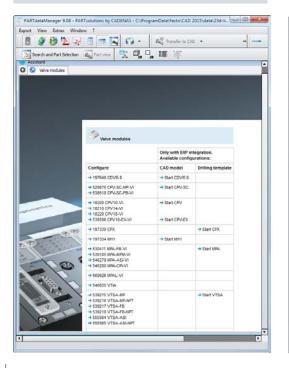
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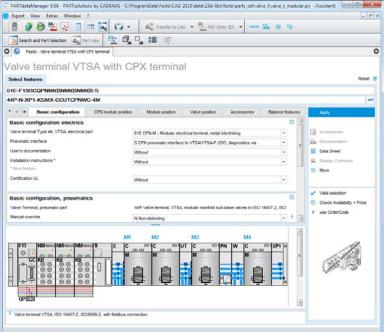
#### **PARTdataManager**

#### Integration of Festo online product configurator

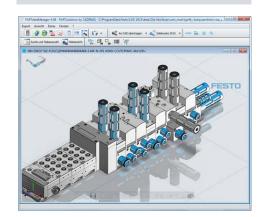
#### 1. Selection



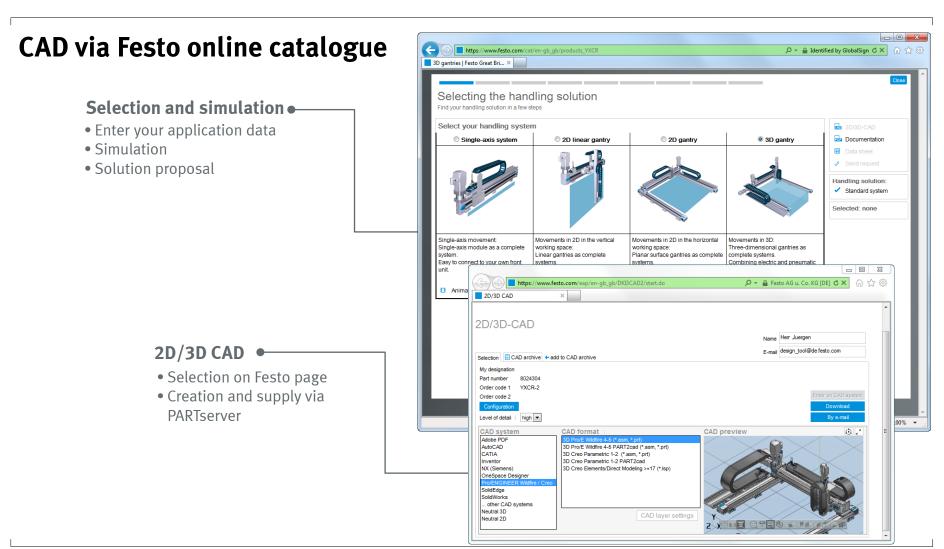
#### 2. Configuration



#### 3. 2D/3D CAD









## eCATALOGsolutions in Festo new product engineering process (NEP)



Technical Release

Sales Release

1

2

3

#### Data research

- Novelty information via SAP
- BOM
- 2D drawings (single parts and assembly)
- 3D Data
- Product data sheet
- Process description

# Definition of data creation

- Customer CAD relevant geometry, functions and interfaces
- Product structure of CAD model
- Level of details
- Weight, eClass, connections, interfaces, etc.
- Wording, translations

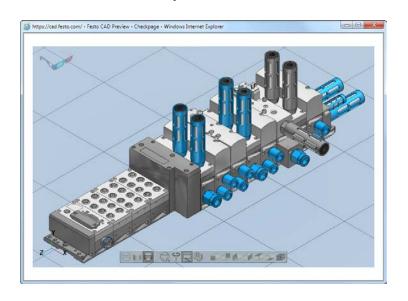
#### Data creation

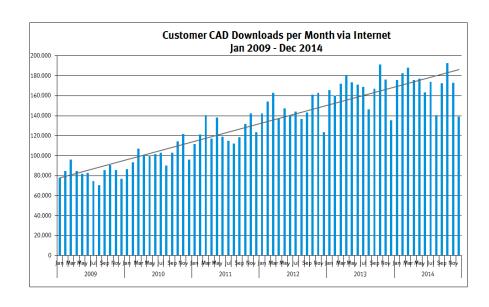
- Creation of fully parametric 3D models with eCATALOGsolutions
- Providing CAD data via PARTproject to PARTserver





#### **Success story customer CAD**





Started: 1998

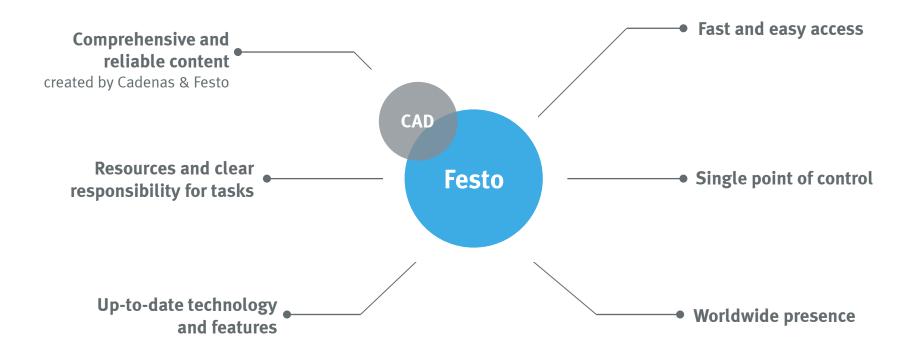
Product range: CAD models for 99% of all catalog products

Downloads per month: 170.000

#### Has become a success story



#### **Factor of success**



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#### Festo Design Tool 3D

The FDT 3D is a CAD-based configurator for our customers to **design & order small** assemblies in a convenient and independent way.

#### Features:

- Limited product range with predefined accessories
- Native and neutral 2D/3D CAD formats
- Integrated order process

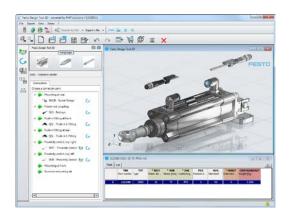
#### Order options via internet:

- Pre-assembled
- Pre-packed





Download and more information: <a href="www.Festo.com/FDT-3D">www.Festo.com/FDT-3D</a>
Technology by CADENAS, PARTdataManager (IPC)

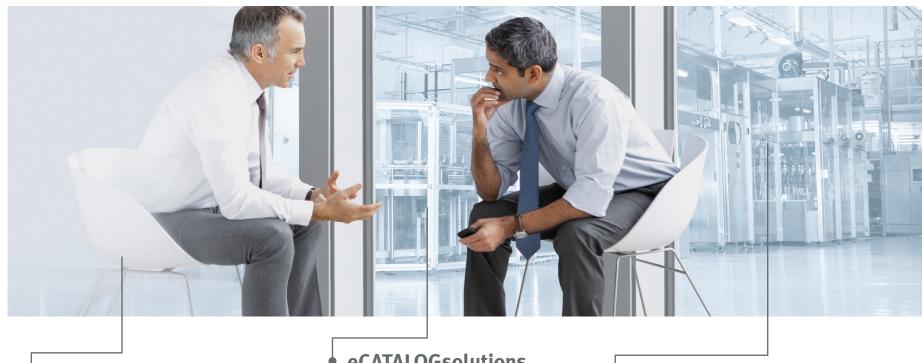








## **Partnership between CADENAS and Festo**



Working together
Since 1998

• **eCATALOGsolutions**Fully integrated to Festo tools and processes from the beginning

• CAD data creation

By CADENAS (20%) and Festo (80%)

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# Thank you very much for your attention.