9º CADENAS Solutions Forum in Bologna

Jürgen Herr

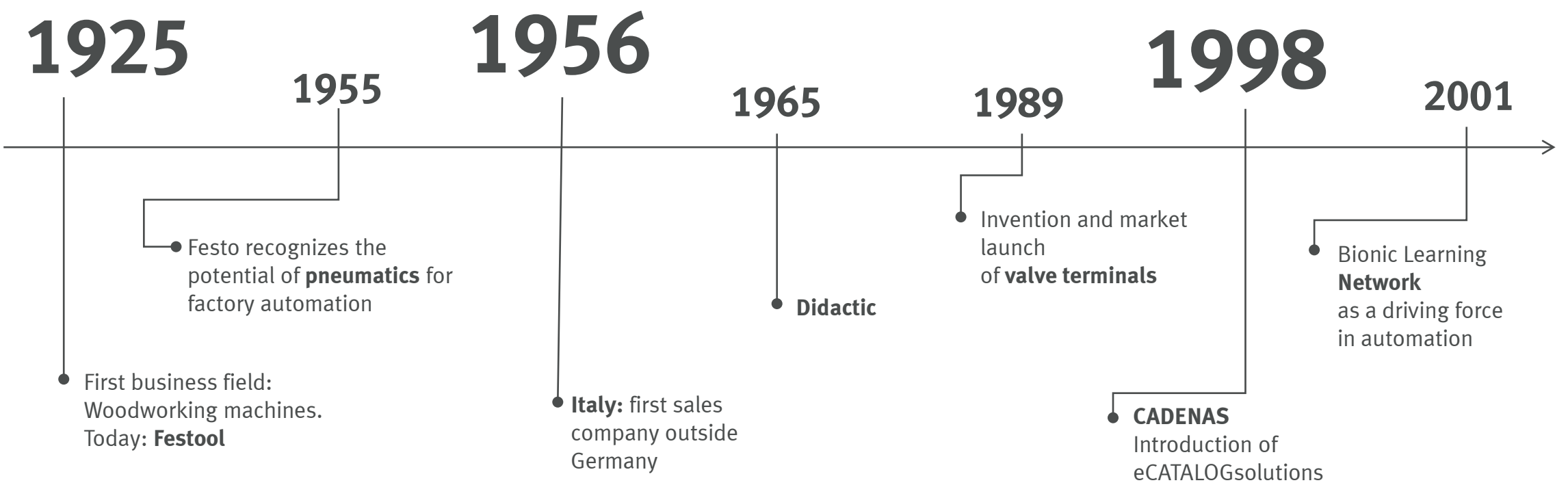
16. May 2018

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

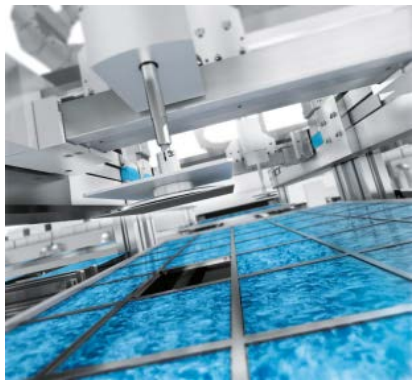
Our history - from woodworking to automation



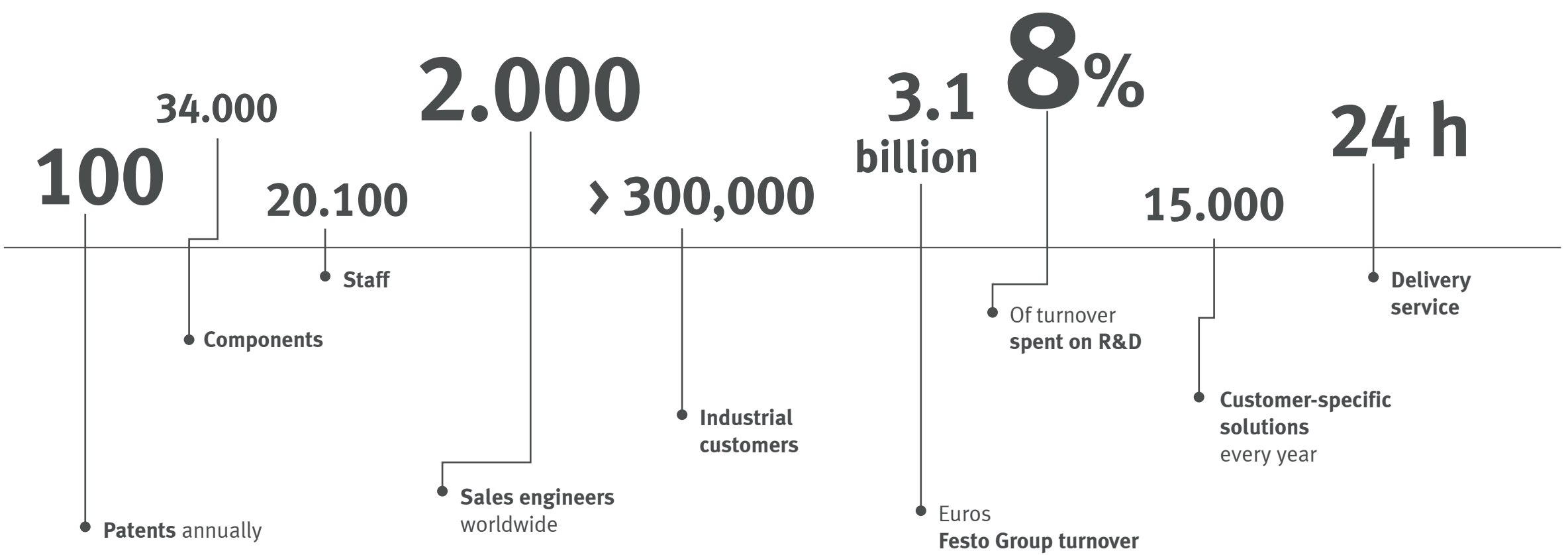
Festo – your world-wide partner in factory and process automation

Intelligent automation with pneumatic and electrical drive technology

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



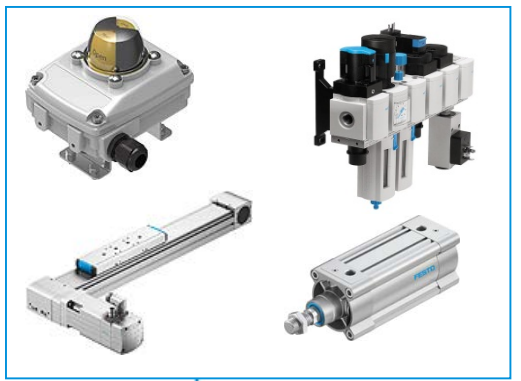
Festo in Figures



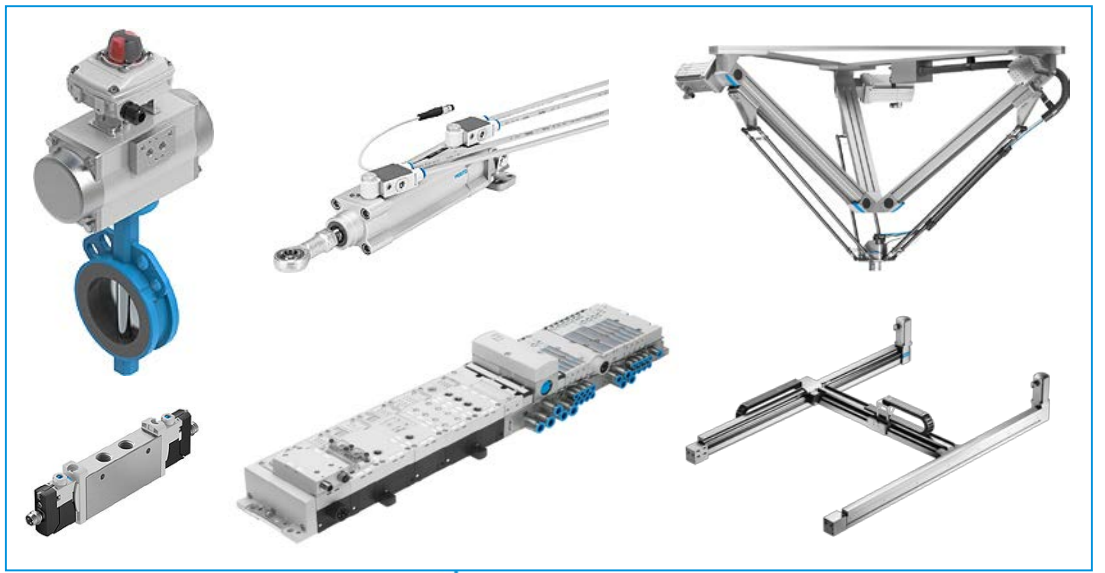
Festo product range

- 34.000 products with millions of variants
- Simple connectors up to complex electrical and pneumatic systems

Electrical and pneumatic connectors, sensors, etc.



Drives and compressed air preparation, etc..



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

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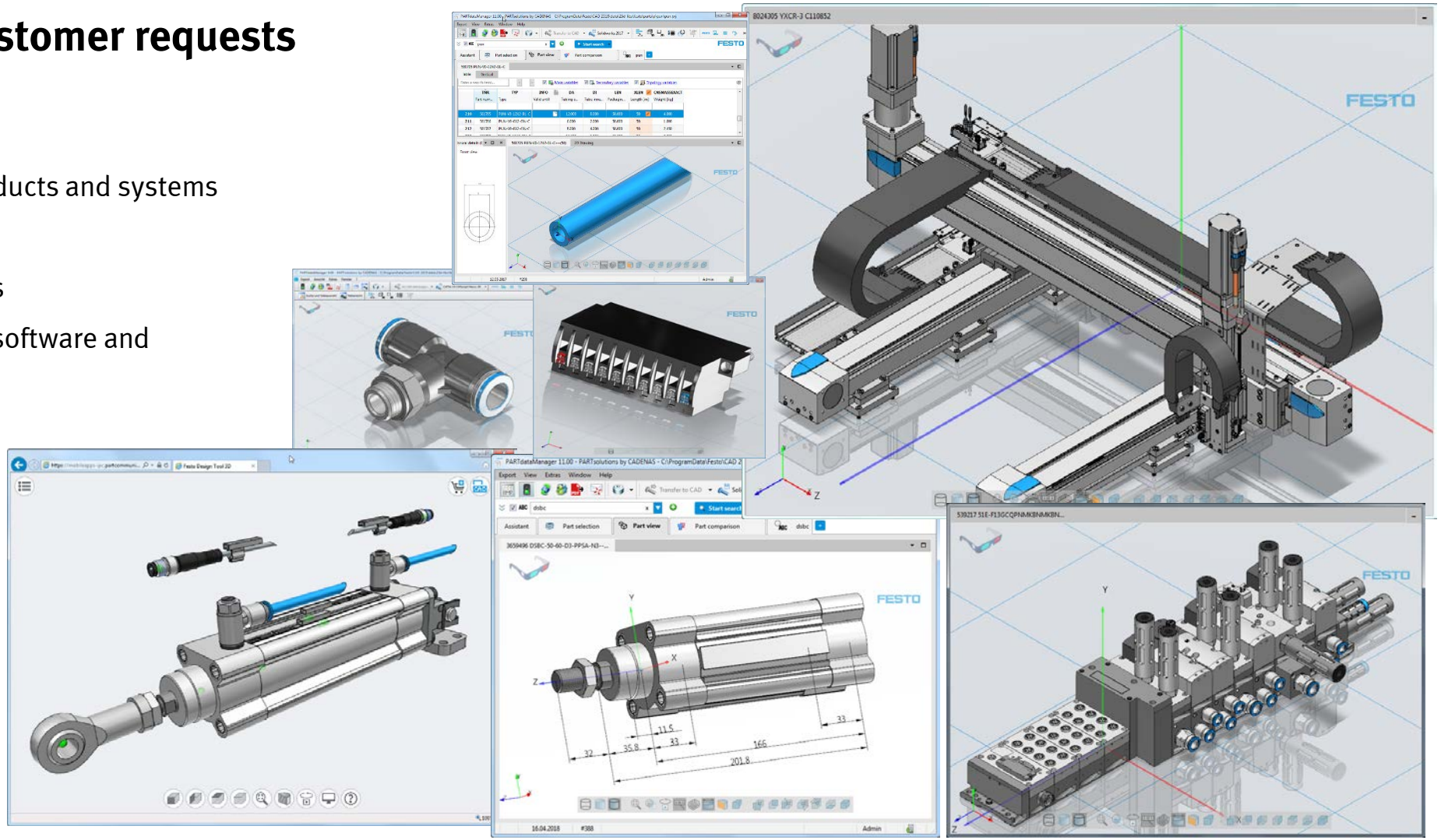
    Fast, reliable and efficient when designing in 3D and ordering

Mechanical design - customer requests

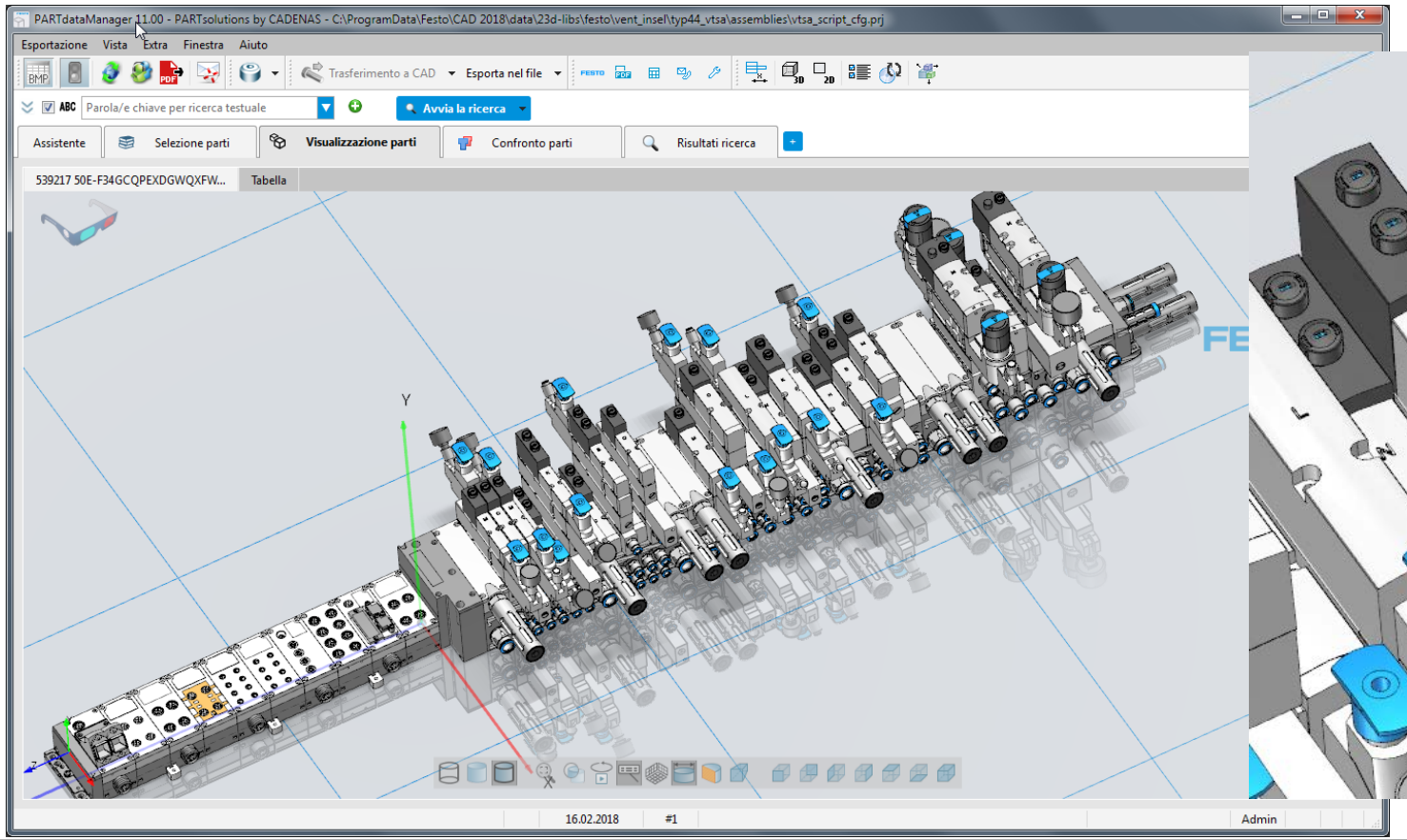
- For **all** catalogue products
- Standard and configurable products and systems
- Simplified and function based
- Neutral and native CAD formats
- Accessible with local installed software and
- Via internet

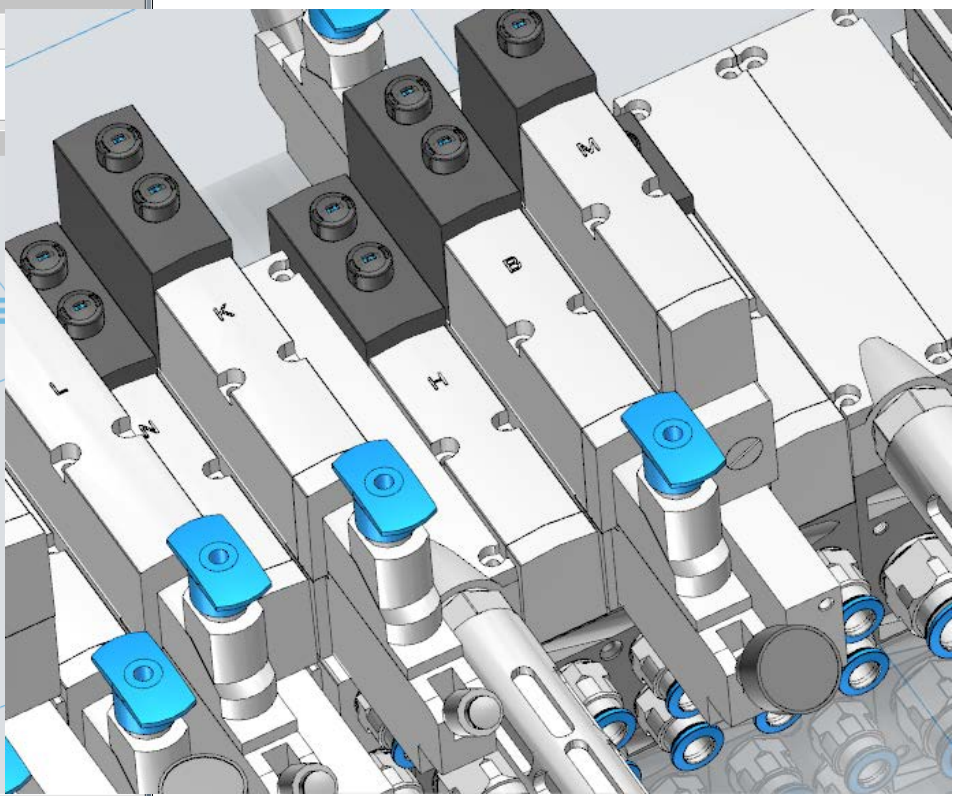
eCATALOGsolutions



Example of a valve terminal

Identcode 1: 50E-F34GCQPEXDGWQXFWLRQXAGQT14QXNMKBT03GCQXTKA-S
Identcode 2: 44P-N-V-LSMX-EEAUAEUSUFFBUBFURU3GUGMZATXOZBTZTMZCZULZDTNKZFUXZTHBZGXZUMOXZTZUMZAOZBTZTZUMZCTLZDXNZTKZHZUHBZIUMXZTOMZJXZUOZKTMZLTXZTZUL

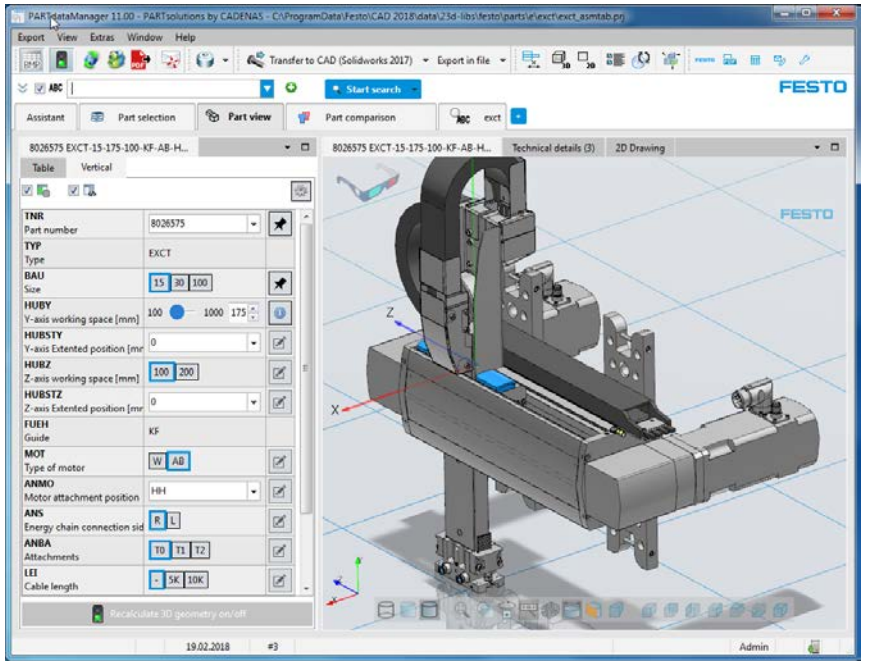




Data supply

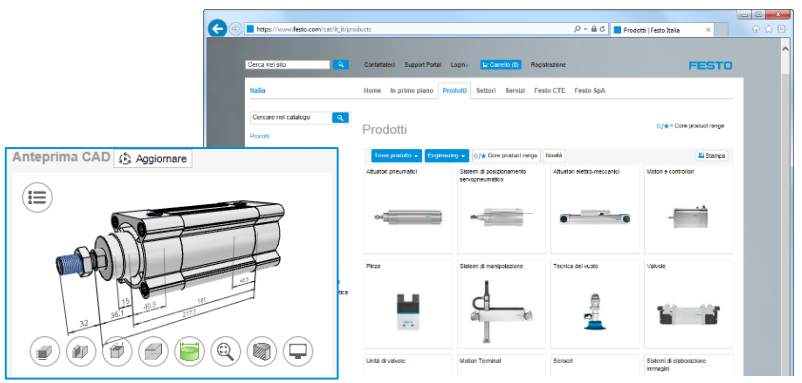
PARTdataManager (offline)

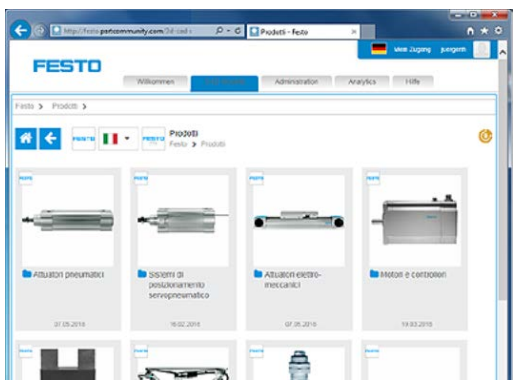
- Available via Festo product catalogue on DVD and
- Via Download at Festo Support Portal
- More information www.Festo.com/PARTdataManager



PARTserver / PARTcommunity (online)

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





Product selection, engineering and ordering

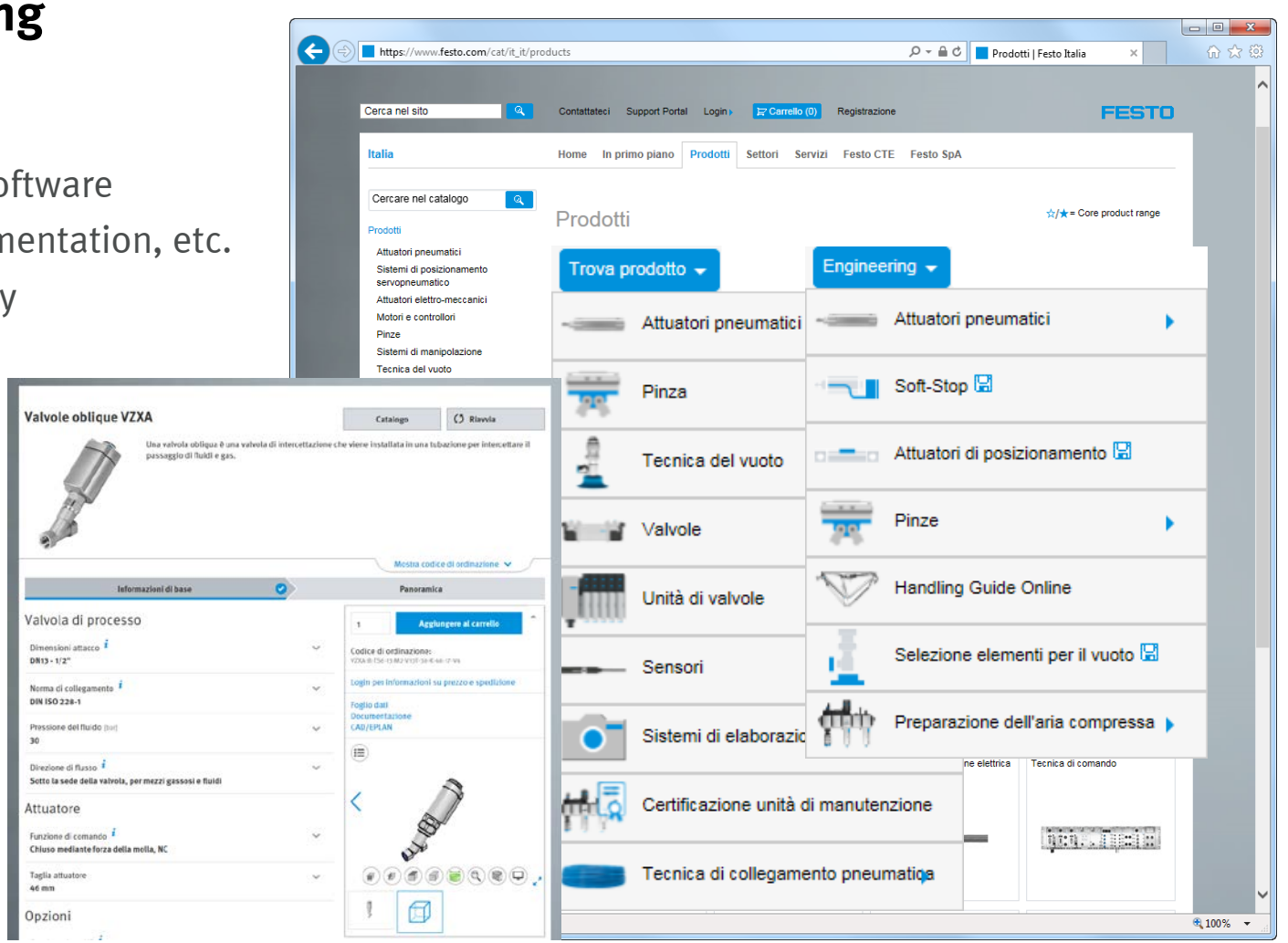
Festo product catalogue – central source

- Product selection, configuration and engineering software
- Engineering data: MCAD, EPLAN, data sheet, documentation, etc.
- Online shop: ordering, price and delivery time query

⇒ Find and select the right products

⇒ Engineering software to simulate your application

⇒ Time saving



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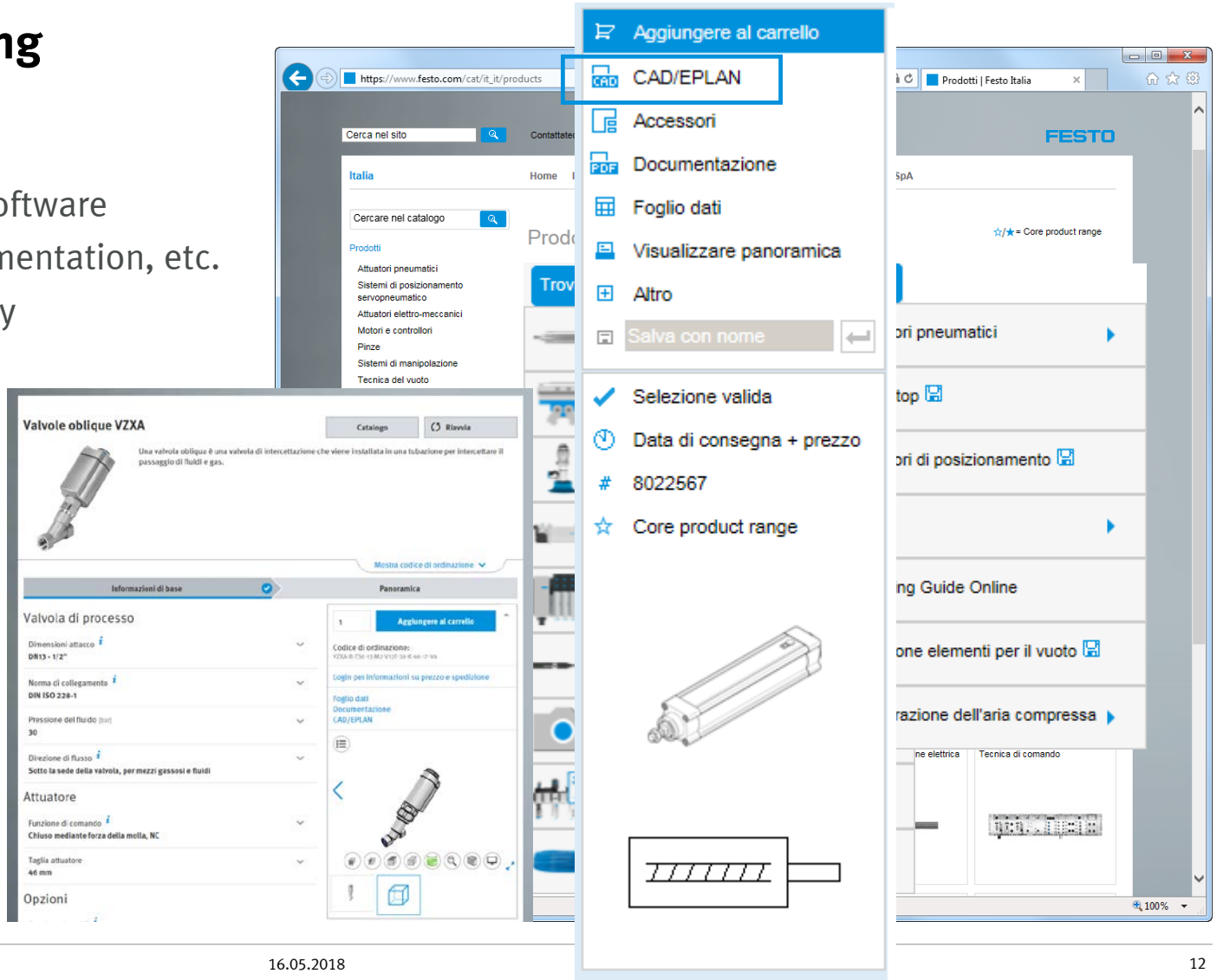

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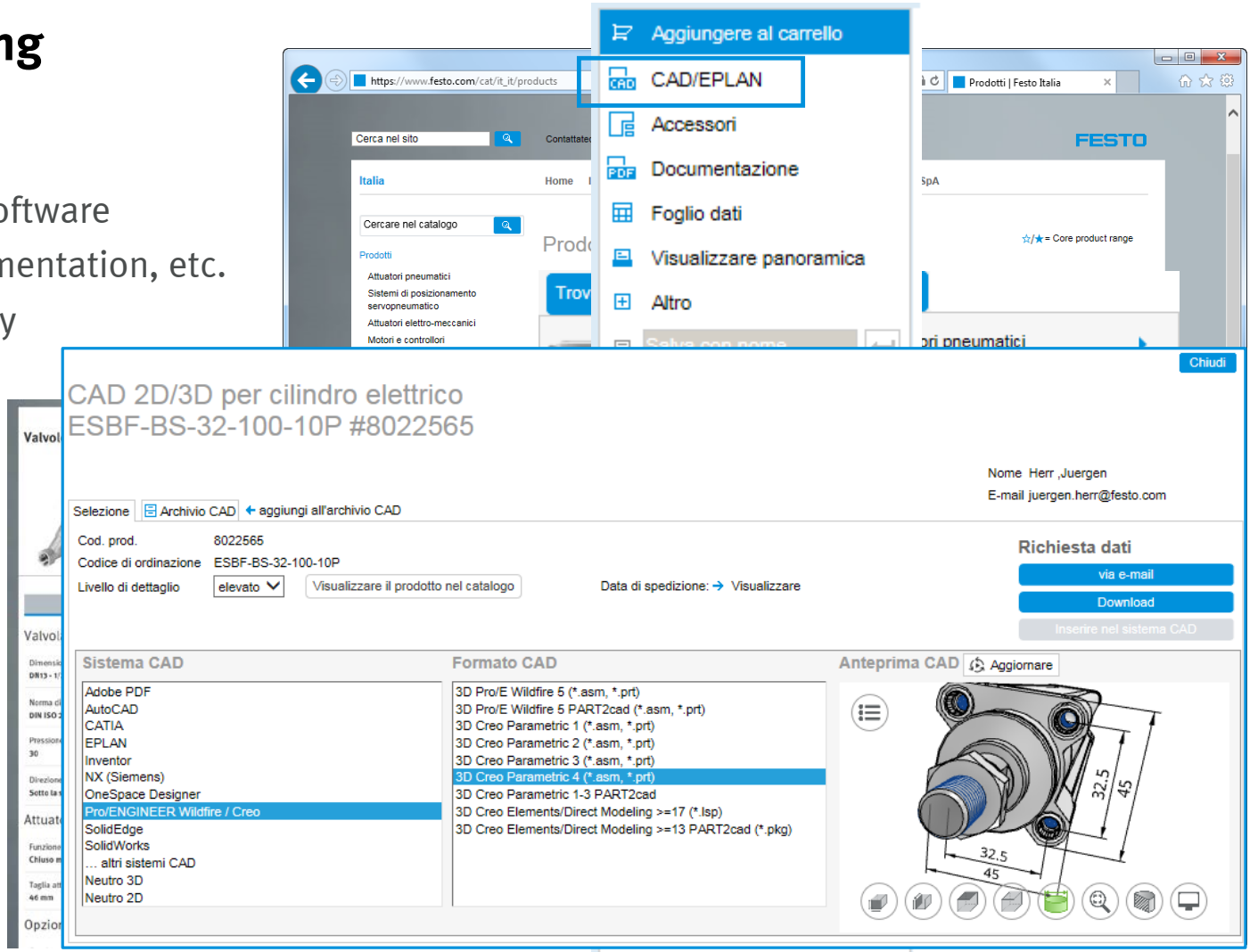
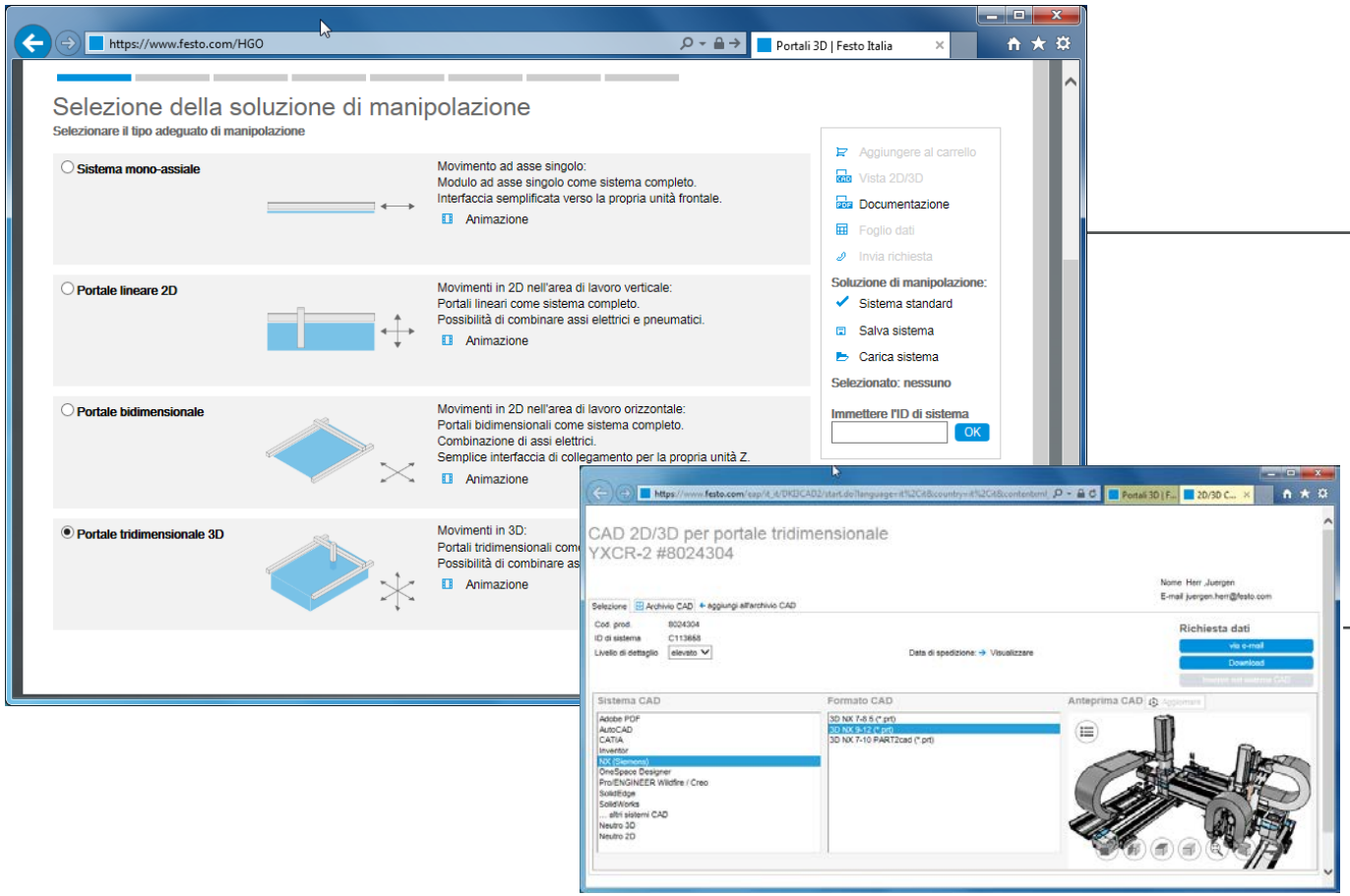


Smart Engineering & Simulation - system configurator for handling solutions



Selection and simulation

- Choose type of handling system and enter your application data
- Simulation
- Solution proposals

2D/3D CAD data

- Selection on Festo page
- Generation and supply via PARTserver

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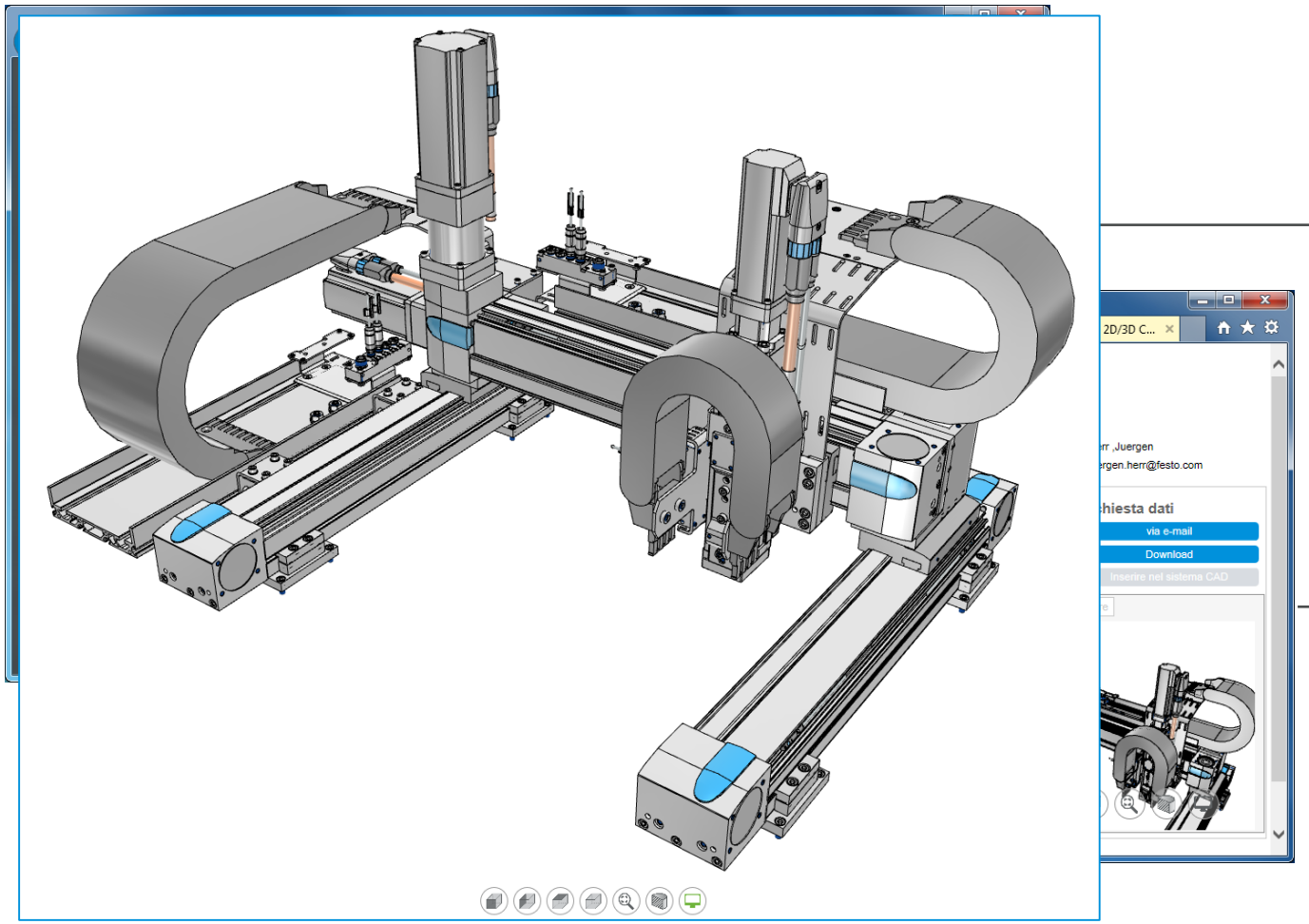

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2D/3D CAD data

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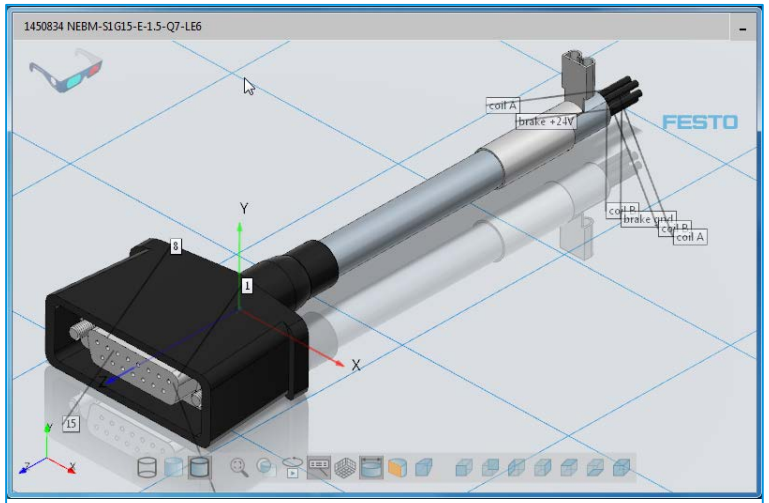
Data supply

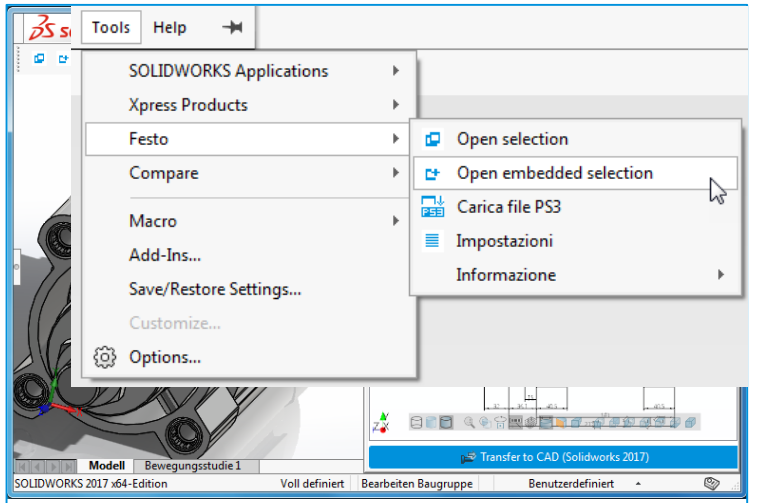
Festo customization

- Festo PARTdataManager
- Colors, logo and splash screen
- Setup by Festo
- Product-releated links to Festo online catalogue
- Integration of Festo online configurator for complex products



CAD data

- ~34.000 catalogue products
- Plus latest and discontinued products
- Kinematic & limited constraints
- Weight, EOL, LOD, eCl@ss, 3D dimensions
- Accessories mapping
- Release notes
- 15 languages
- CAD update reminder



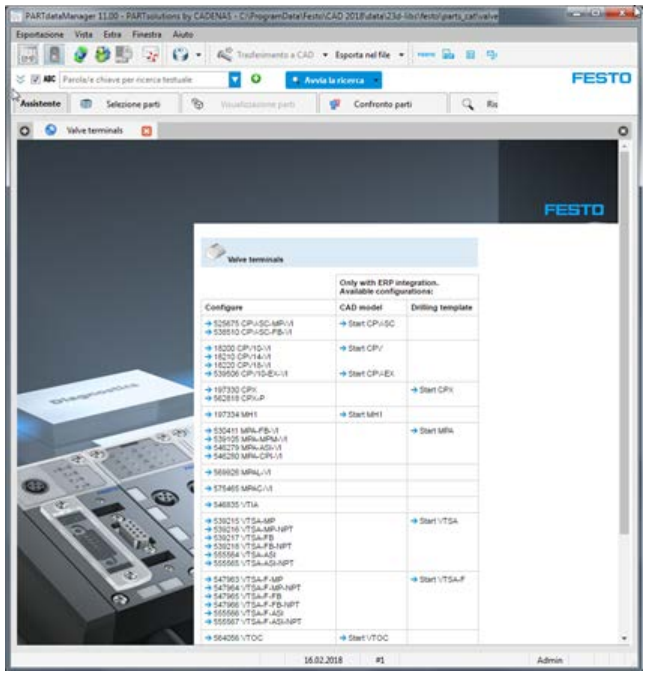
CAD interfaces & functions

- Neutral CAD formats
- Native CAD interfaces for
  AutoCAD® / Autodesk® / Inventor® / CATIA®V5 / Pro/ENGINEER® / NX™ / SOLID EDGE® / SolidWorks®
- Seamless integration
  → Festo CAD plug-In
- Part comparison and geometric search

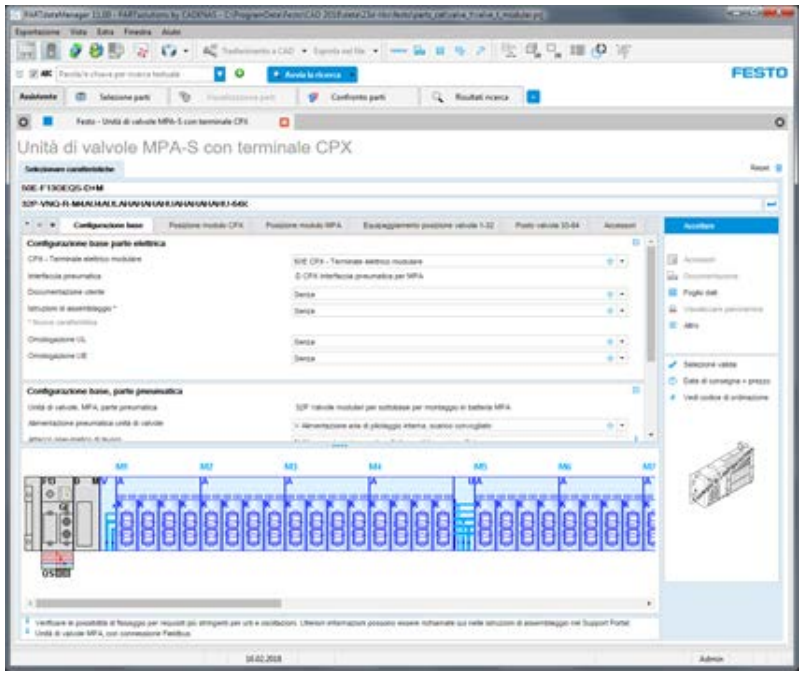
Integration of Festo online configurator

PARTsolutions

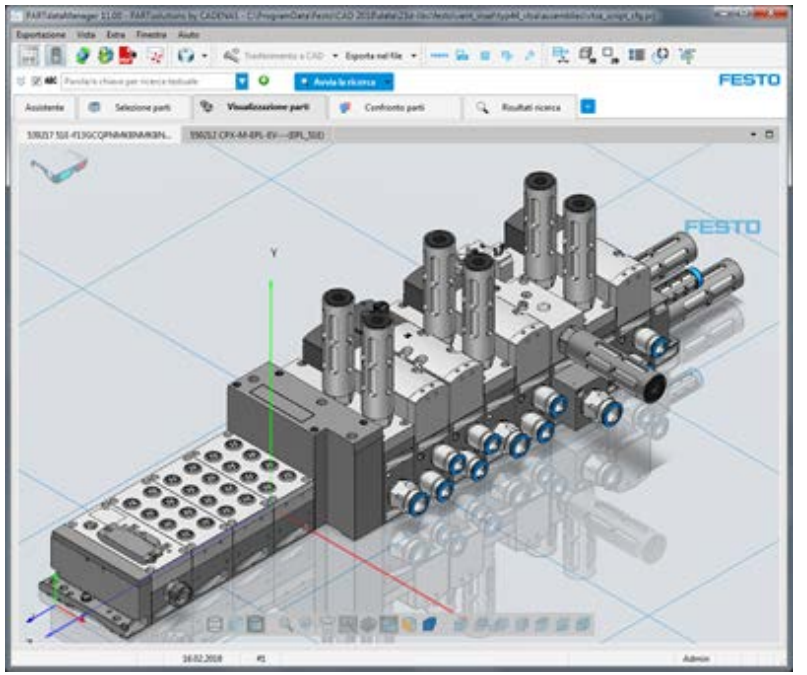
1. Selection



2. Configuration



3. 2D/3D CAD

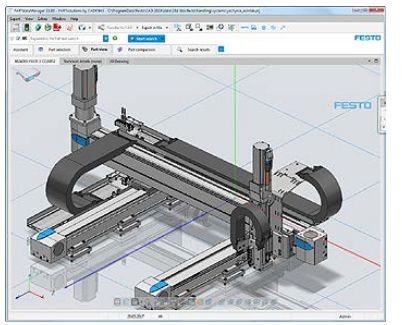


eCATALOGsolutions – fully integrated in Festo new product engineering and change process

Technical Release → **Sales Release**

1 → 2 → 3

Data research	Definition of data creation	Data creation
• Novelty information via SAP • Bill of material • 2D drawings (single parts and assembly) • 3D models • Product data sheet • Process description	• Customer CAD relevant geometry, functions and interfaces • Product structure of CAD model • Weight, Level of details, connections, end-of-life, eCl@ss, etc. • Wording, translations	• Creation of fully parametric 3D models with eCATALOGsolutions • Providing CAD data via PARTproject to PARTserver



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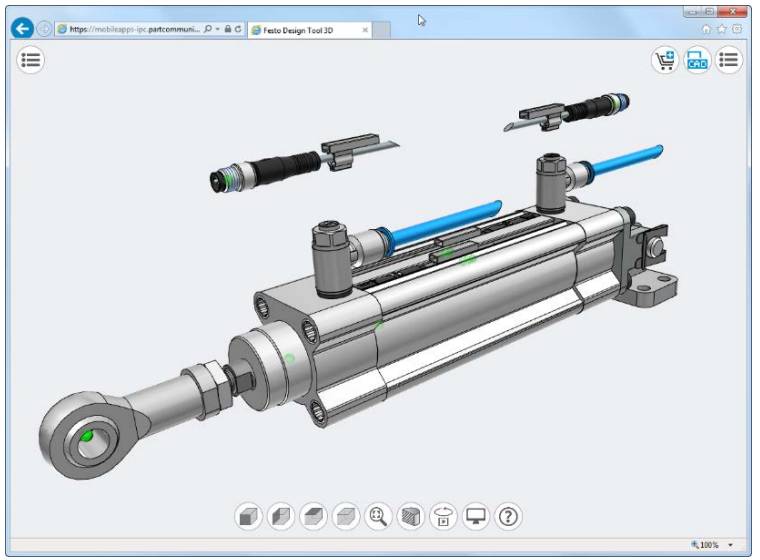
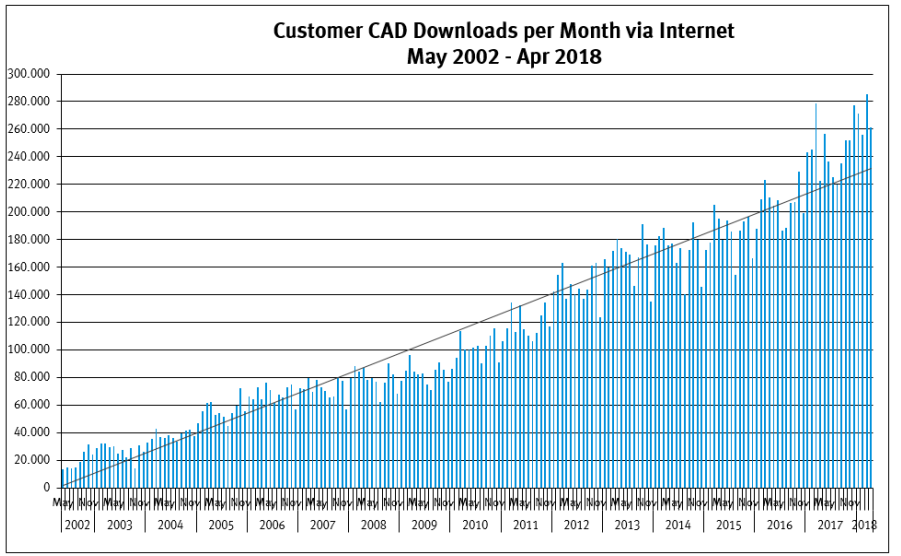




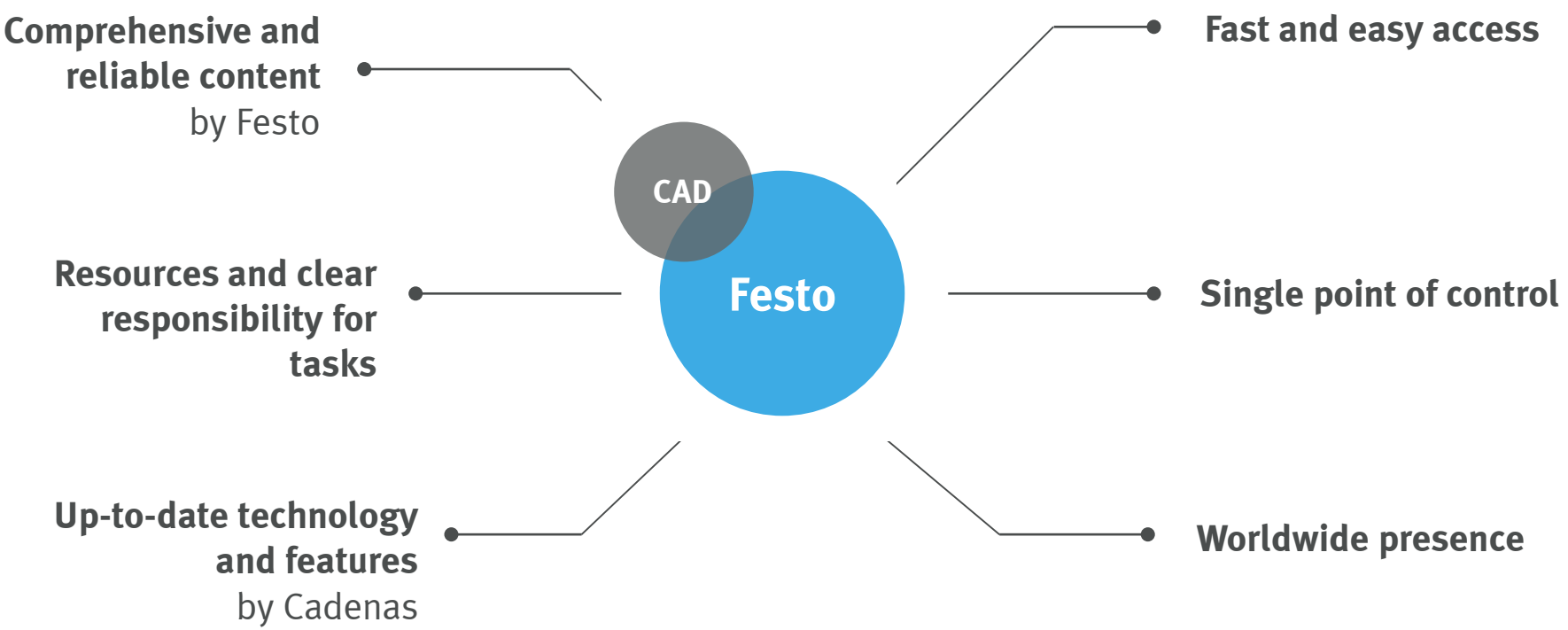
Started: 1998

Product range: CAD models for all catalog products

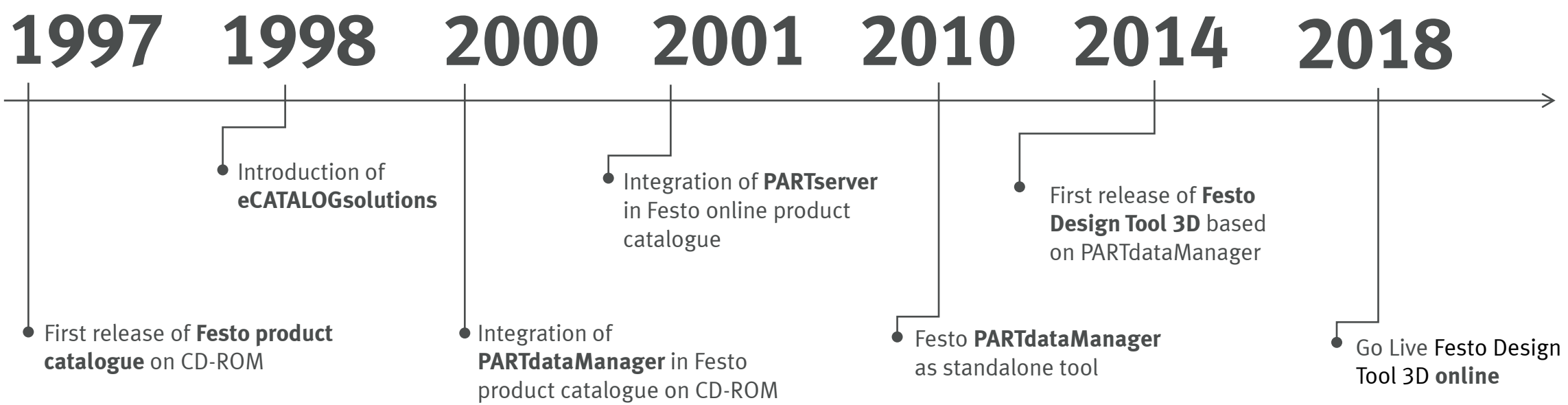
Downloads per month: 260.000

Has become a success story

Factor of success



Cadenas & Festo



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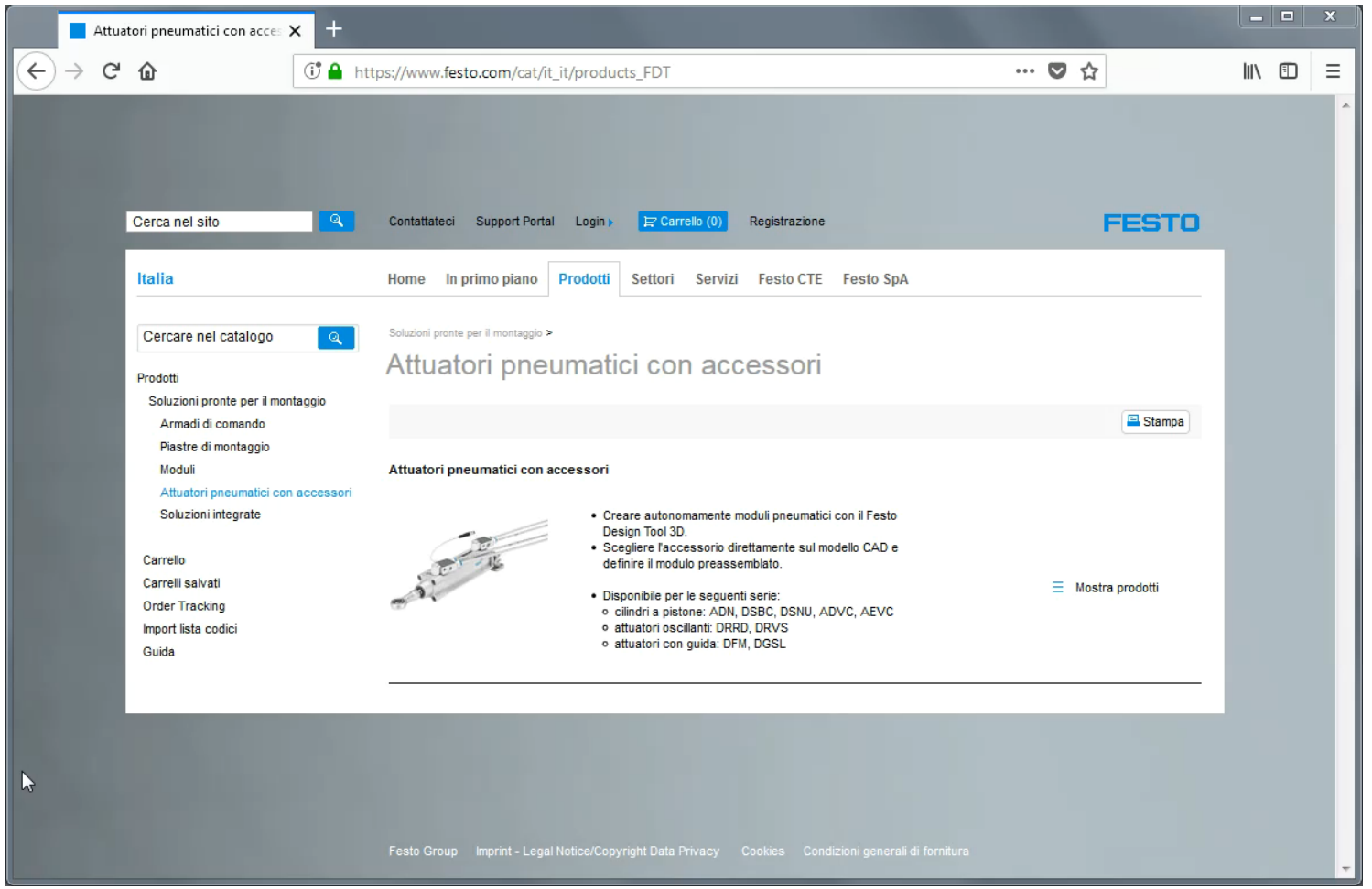
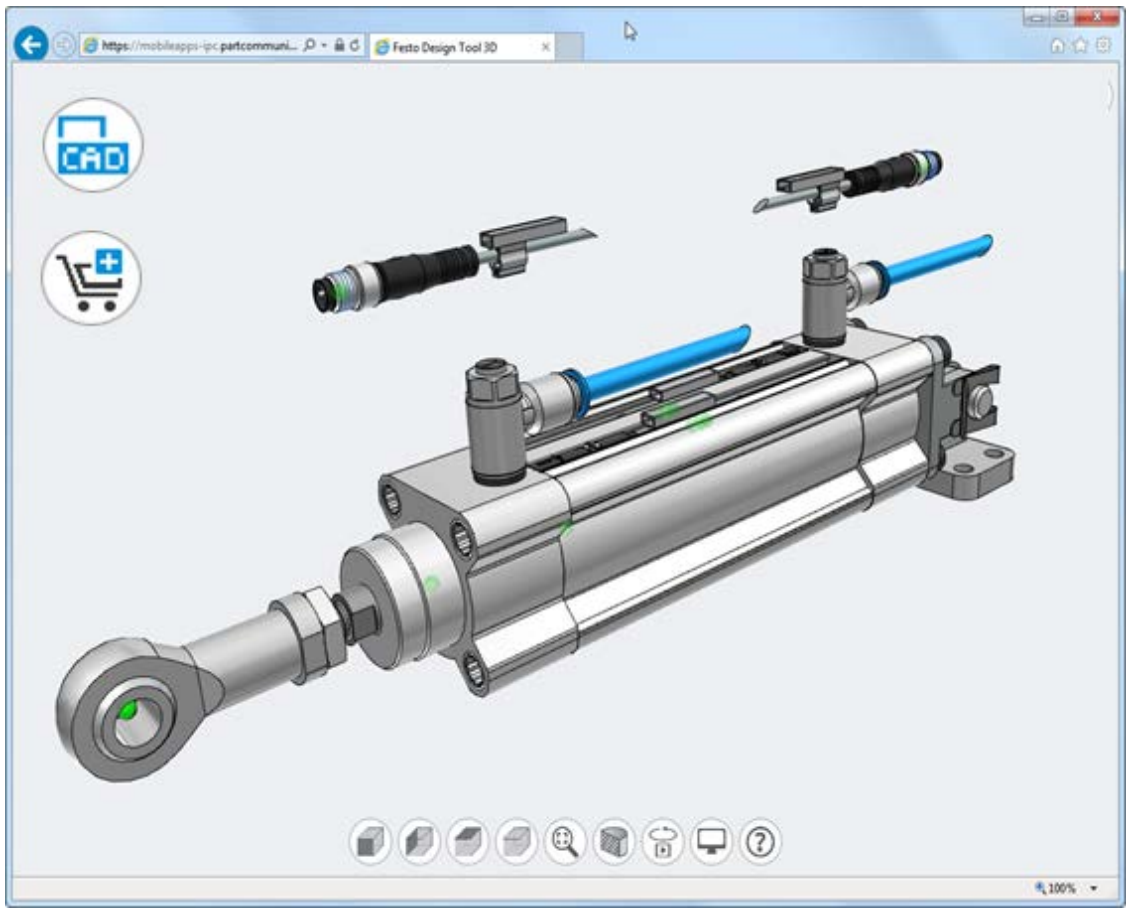
Festo Design Tool 3D online

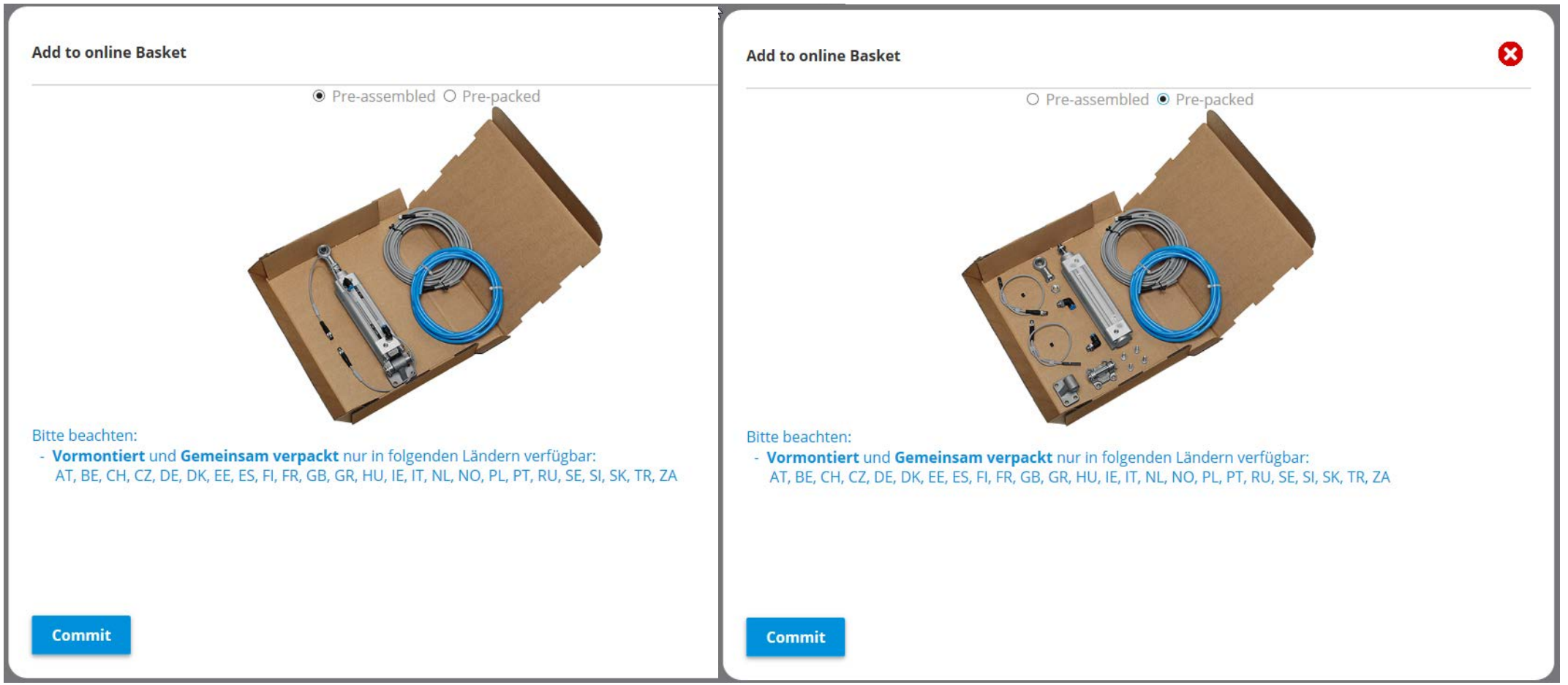


Festo Design Tool 3D online

- 3D CAD-based configurator for pneumatic cylinder modules with accessories
- 80% time saving at the product selection and design process
- No installation needed
- CAD file formats and functions
- Order function: **pre-assembled** and **pre-packed**



Festo Design Tool 3D online – order options



Partnership between CADENAS and Festo

- **Working together**
  Since 1998
- **Software development**
  By Cadenas
- **CAD data creation**
  By Festo
- **eCATALOGsolutions**
  Fully integrated to Festo tools and processes from the beginning

May I answer your questions?