



door2solution
software gmbh

More than just a spare parts catalog!

Spare parts catalog, eCommerce & Service portal

Our solution is flexible

Our software solution *door2parts* can be expanded from an interactive spare parts catalog solution to a complete eCommerce platform or customer portal and provides everything you need as a manufacturer and operator of machines and plants to digitize and optimize your service.

Starting from a central database, which is taken from previous systems (ERP, PDM, CAD,...), the media-neutral information is published in multiple languages and made available to your service technicians, subsidiaries, partners, dealers and customers via a user-friendly interface.

The application area of our solution is the manufacturing industry, especially in machine, plant and vehicle construction.



One system - Many advantages

Our solution can do more

In a fast-moving and networked world, customers have high expectations of manufacturing companies and their services:

Support and services should be fast, uncomplicated and, above all, reliable. By introducing an interactive spare parts catalog system, you not only increase customer satisfaction, but also optimize your business processes at the same time.

convenient identification &
verification of spare parts

resource savings in manual processing of spare
parts requests

simplified inquiry & order process | increased
efficiency in service

increase in sales through online sales of spare parts
& accessories

indirect improvement of data quality | digitized
database

future security & competitiveness through
digitization in practice

availability independent of time and place |
all information in one place

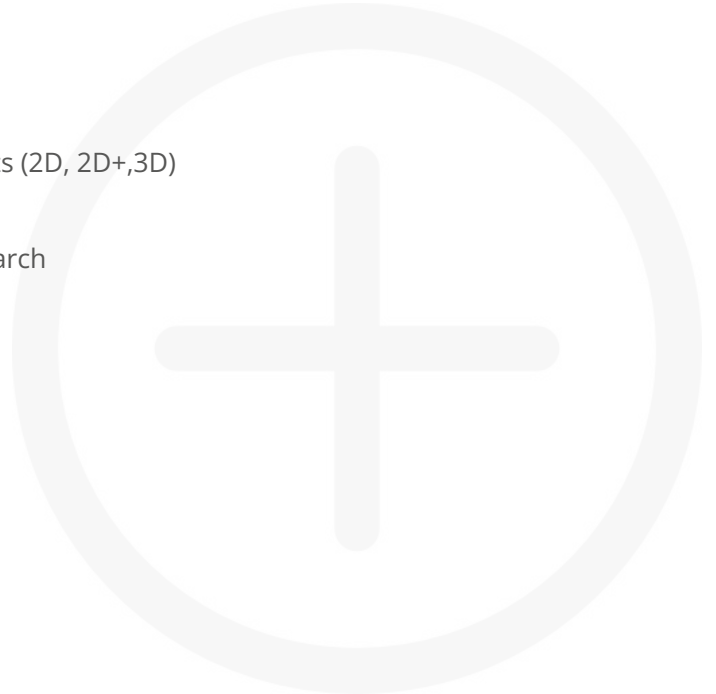
user-friendly operation

door2parts - The heart of our solution

Our solution is comprehensive

The core of our application is *door2parts* - the interactive spare parts catalog solution that enables easy creation and maintenance of hierarchically structured spare parts catalogs. *door2parts* has the following basic features as standard:

- ▶ for preparation and control of catalog data
- ▶ rule-based catalog production and publication
- ▶ catalog management and version management
- ▶ interactive image/model parts list view incl. hotspots (2D, 2D+,3D)
- ▶ Mapping of variants and revisions
- ▶ User management with individual rights
- ▶ Mapping of technical documents and document search
- ▶ Intuitive navigation and user interface
- ▶ Deep zoom engine for optimal image display
- ▶ Multilingualism
- ▶ Responsive design
- ▶ B2B / B2C functionality with/without login
- ▶ etc.



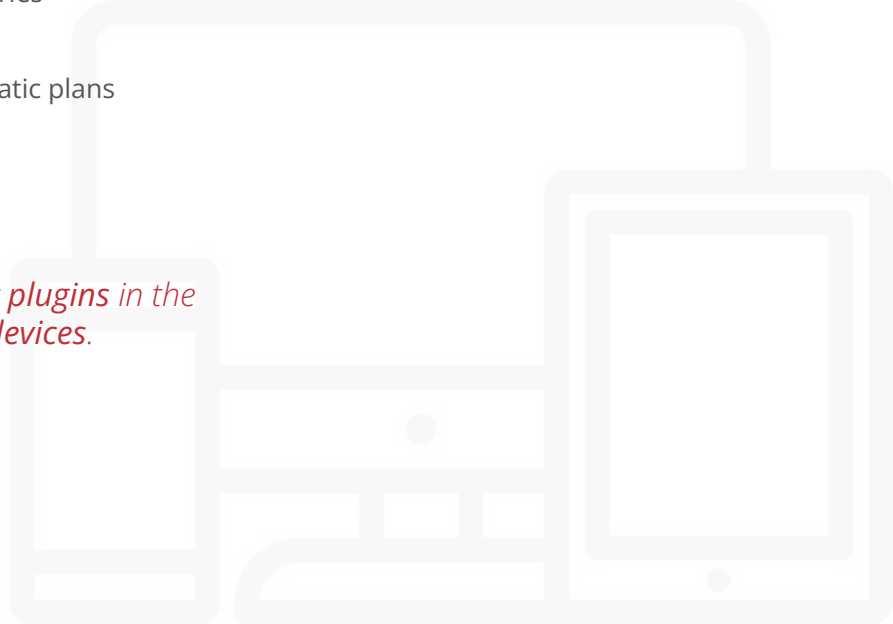
door2parts - The heart of our solution

Our solution is modular

... and can be extended by the following expansion modules:

- Offline functionality
- Print function
- eCommerce and store module for accessories
- Cross-selling functionality
- newsletter module
- interactive display of electrical and pneumatic plans
- shipping costs calculation
- single sign-on
- etc.

*door2parts is **server-based** and runs **without plugins** in the browser in the browser on all common end devices.*



door2parts - The heart of our solution

01 IT SURROUNDING

Graphic Editors | CAD | PDM/PLM | ERP |
Technical Documentation

02 RAW DATA

2D drawings and illustrations | 3D models |
Photos and documents | PDF catalogs |
Parts lists | Parts master records | Variants |
Prices and availabilities

03 *door2parts*

Editorial system → automatic processing
and/or manual maintenance of the data

04 PUBLICATION

Customer portal | Online spare parts catalog with/without login |
Offline spare parts catalog | eCommerce & webshop | Catalog
printing | PDF flip catalogs

05 SERVER-BASED PROCESSES



Data center



Inhouse



Cloud Service

Different import options

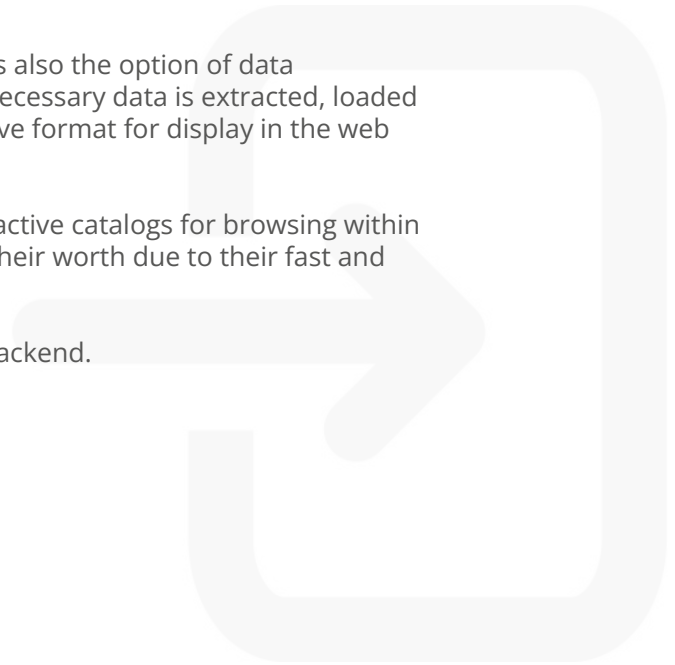
Our solution can be integrated and browsed online

*For the catalog structure, data is taken from the upstream systems (ERP, CAD, PLM/PDM, ...) and entered **into door2parts either automatically or manually.***

The database can include different file formats. In addition, there is also the option of data preparation of existing PDF spare parts catalogs. In this case, the necessary data is extracted, loaded directly into an eCommerce engine and converted into an interactive format for display in the web store.

PDF product catalogs can also be uploaded and converted to interactive catalogs for browsing within the spare parts catalog or web store. These import options prove their worth due to their fast and uncomplicated implementation.

In any case, the data can be edited and controlled via *door2parts* backend.



Use independent of time and place

Our solution is mobile

*Of course, in addition to desktop and laptop applications, our software solution can also be used via **all common mobile devices** and in combination with the latest browsers without installation.*

Images and models can basically be zoomed separately from texts / parts lists without losing the overall view of the page. This functionality is also supported by an integrated view switch, which can limit the display to image or parts list. This is especially helpful for mobile access, as smaller displays are available in these cases.



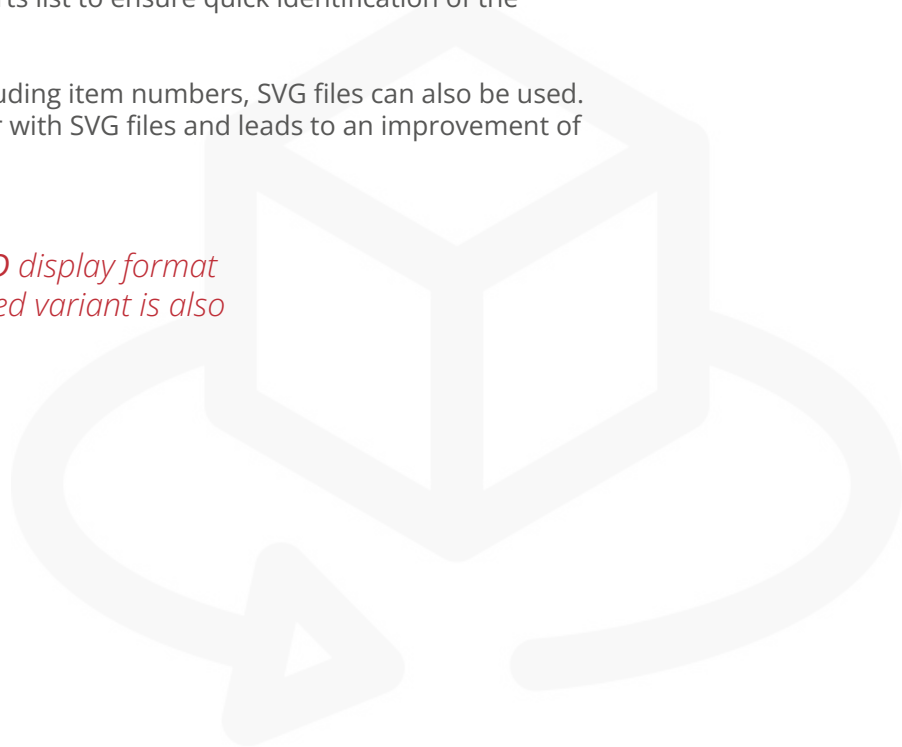
2D, 2D+ and 3D Illustrations

Our solution is interactive

A central component of a spare parts catalog is the mapping and interaction between the image (exploded view / model) and the positions in the parts list to ensure quick identification of the correct spare part.

In addition to the use of 2D exploded drawings including item numbers, SVG files can also be used. The interactive drawing area can be designed larger with SVG files and leads to an improvement of the user friendliness.

*Depending on the database, a **2D, 2D+ and 3D** display format can be used in the spare parts catalog - a mixed variant is also possible.*

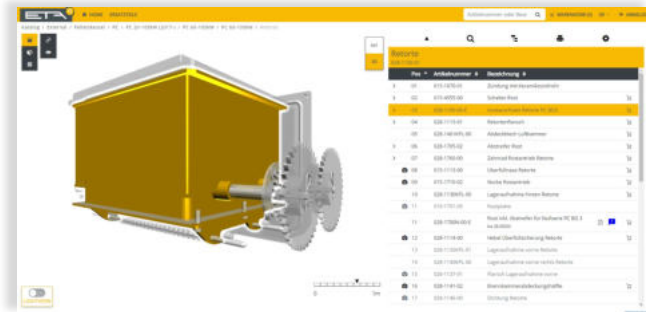
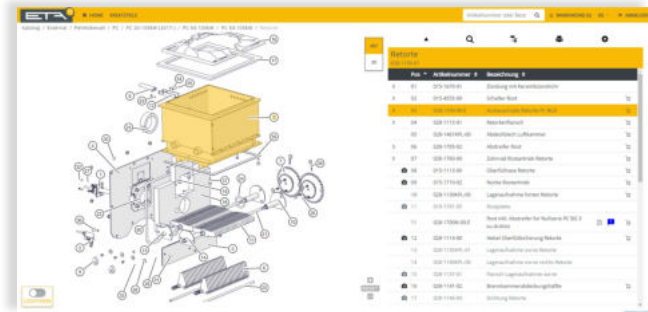


2D, 2D+ and 3D Illustrations

Our solution is interactive

The use of interactive 3D models from the CAD is probably the most resource-saving method, since here the exploded drawing is completely dispensed with. The data is taken directly from the CAD via STEP files and displayed interactively - via an X-Ray representation in the browser.

In most cases, our customers use a mixture of all display formats: existing data is displayed as 2D exploded views and new machines as interactive 3D models. However, only individual assemblies or components can also be expressed as 3D objects.



3D Illustrations



Our solution fits your CAD system

*We have developed several methods and evaluated tools to convert CAD formats to a **webGL** and **webVR** compatible file format.*

One possibility is the Composer from Dassault®, which can output Wavefront Object files directly. Another option is fully automatic extraction from STEP files, which can be generated by any common CAD system. Upload a single STEP file and the rest is done automatically.

A key advantage of our solution is that no plugins or apps are required for 3D runnability in the browser - on desktop as well as on tablet and smartphone.



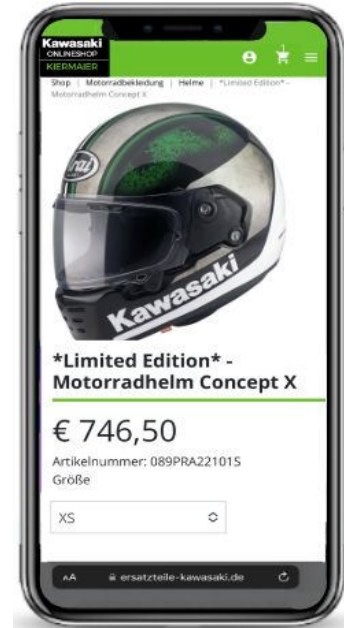
Integrated eCommerce solution

Our solution is your seller

*Building on the interactive spare parts catalog, our software also includes a complete **eCommerce solution** in line with current EU directives.*

Prices and availabilities can be mapped manually or automatically via interfaces in *door2parts*. Different price lists can be assigned to different customers.

Integration with other store systems (SAP Hybris, Magento, xt:Commerce etc.) is possible, but not required. Our application is a complete eCommerce solution according to the current EU directives and contains all standard functions of a webshop, which can also be supplemented with payment methods (Paypal, KLARNA, Visa, ...) and a shipping cost calculation.



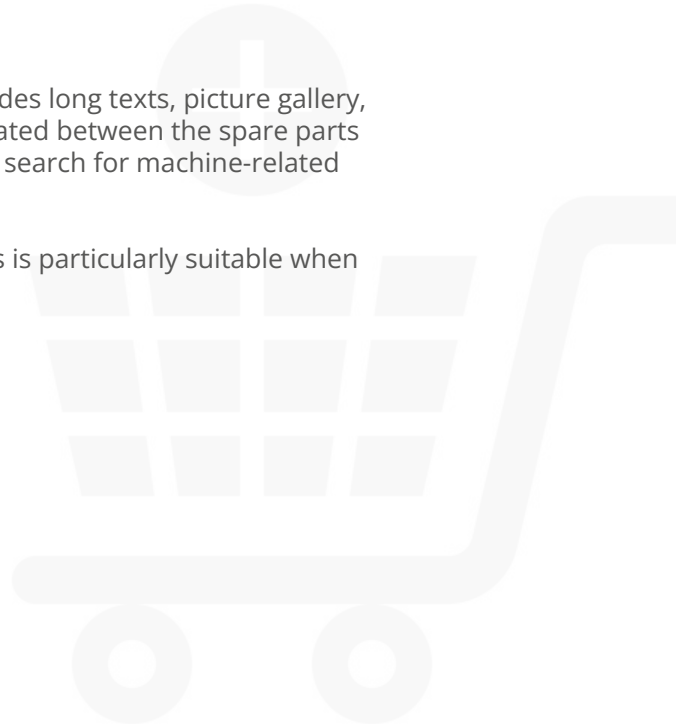
Machine accessories & Cross selling

Our solution encourages buying

*In addition to the ordering functionality in the spare parts catalog, a separate **store area for accessories, upgrades and retrofits** can also be added.*

The store area dedicates more space to the individual article and includes long texts, picture gallery, hazard warnings, etc. For cross-selling purposes, a link can also be created between the spare parts catalog/machine and the store to make it easier for your customers to search for machine-related accessories.

Another form of online sales can be achieved via PDF flip catalogs. This is particularly suitable when supplier data in the form of PDF catalogs is involved.



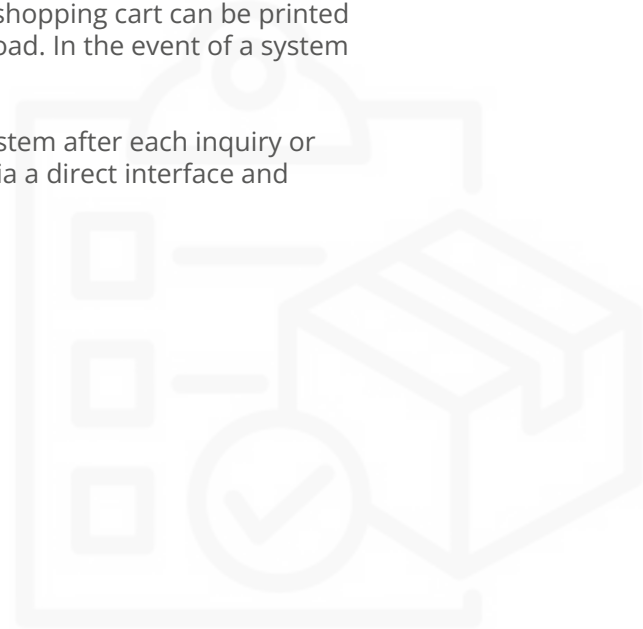
Shopping cart and order process

Our solution to help you decide

*The shopping cart as the **central element of an ordering process** is one of the basic functions of an effective store solution in both industry and retail.*

In addition to the simple basic functions (fill, change, save, delete), the shopping cart can be printed out using the print module, sent by e-mail or made available for download. In the event of a system interruption, the shopping cart remains in place.

Generally, a confirmation is sent to an e-mail address entered in the system after each inquiry or order. If desired, the order can also be transferred directly to the ERP via a direct interface and processed further.



Login and user administration

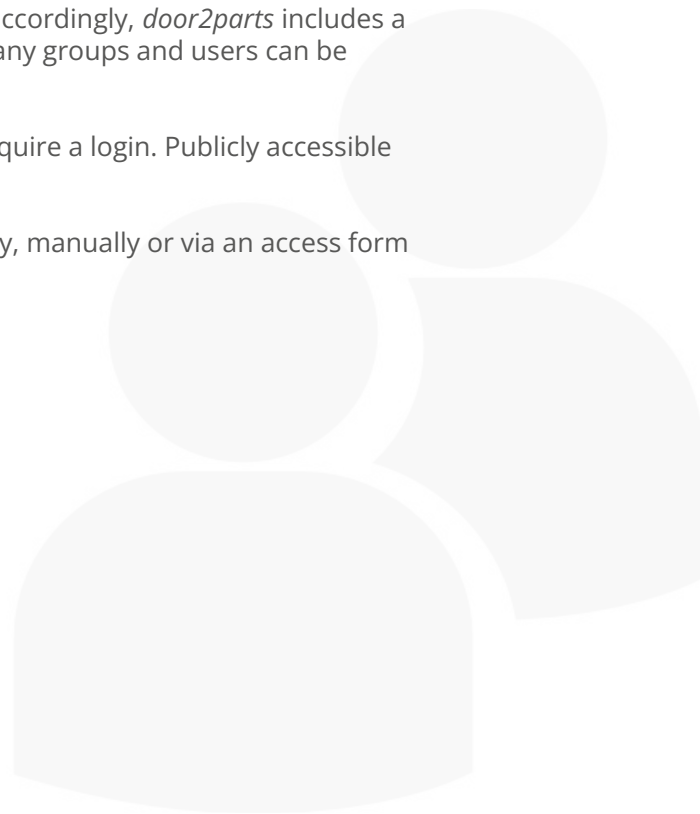
Our solution encourages buying

To meet the needs of the different customer groups B2B and B2C accordingly, *door2parts* includes a comprehensive user and authorization concept. Companies, company groups and users can be assigned different roles - with or without individual rights.

The authorization concept is used in particular for solutions that require a login. Publicly accessible solutions are also possible.

Onboarding of new companies and users can be done automatically, manually or via an access form directly by the user.

*We offer optimal **user management and authorization concepts** for both B2B and B2C customers.*



Innovative features

Our solution is adaptive

Multilingualism

Any number of languages can be configured in *door2parts*. The distinction between data language and user interface language (GUI) makes it possible to address the most important target markets and increase system acceptance.

Deep Zoom Engine

With the help of the integrated depth zoom function, detailed images can be zoomed continuously with a mouse click, guaranteeing optimal and efficient visualization of the machine components.

Catalog print

A print module can be used to generate PDF catalogs with all available information and graphics from interactive complete catalogs or even assemblies. In the case of a complete print, the entire spare parts catalog including title page, table of contents, assemblies, etc. is printed. In the case of assembly printing (print on demand), only the active assembly from the user's point of view is printed in the current language. Depending on the customer's requirements, this can contain prices, availabilities, variants, etc. or just a picture and parts list.

Offline functionality

In addition to an interactive online display of the spare parts catalogs in the browser, they can also be viewed offline as HTML, CSS and Java Script files including images and hotspots directly in the browser on all mobile devices. The functionality (images, hotspots, pricing, search function, responsive design) and the layout correspond to that of an online spare parts catalog.

Innovative features

Our solution is innovative

Electrical and pneumatic plans

For an interactive display of electrical and pneumatic plans, our E-Plan module can be used, which allows a linking of equipment codes (BMK) to the parts list / machine numbers. By means of links in the image, the user can follow the cable run over several pages and is forwarded directly to the corresponding page in the plan when clicking on it.

Single-Sign-On

To enable users to easily log in to *door2parts* and other external software solutions, access can be established via SSO (OAuth2, SAML-2). *door2parts* can act as an identity provider (IdP) or service provider (SP). As IdP, *door2parts* provides the central user database including permissions and properties.

Newsletter module

Via a newsletter module, customers can be informed about new online machines, new documents or even upgrades/retrofits in the portal.

QR codes and NFC tags

QR codes can be created and managed directly in *door2parts*. Printing requires industrial printing devices (heat, UV, acid resistance, etc.) that enable high-quality printing. These can also be supplemented with industrial-grade NFC tags.



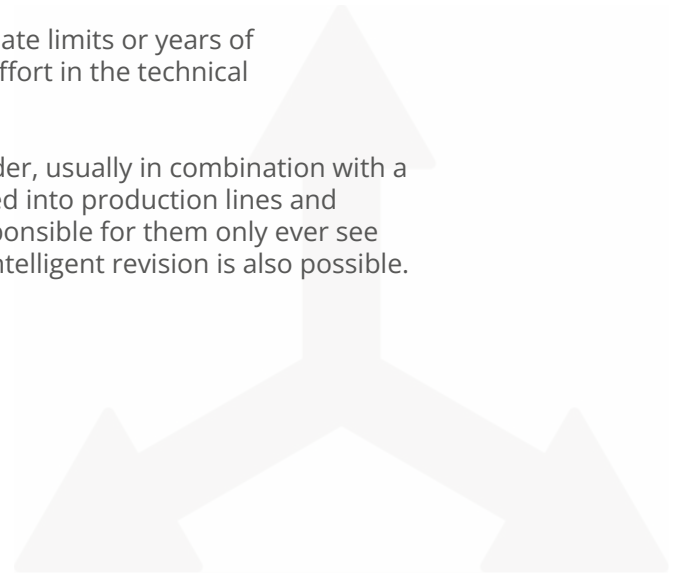
Variants, Serial numbers & Revisioning

Our solution is smarter

*The BOM (bill of materials) can be overlaid by a **variant matrix**. The variant matrix differentiates build stages depending on easily managed characteristics, for example color or country code.*

Likewise, usage limits can be defined in the form of VIN numbers, date limits or years of manufacture. This can drastically reduce the overall maintenance effort in the technical documentation.

The opposite of variants are BOMs strictly oriented to customer order, usually in combination with a PLM system. Each machine is individual - machines can be combined into production lines and linked to customers. Customers and the partners or sales staff responsible for them only ever see the machines and documents approved for them. Project-related intelligent revision is also possible.



Virtual sales & Service

Our solution is your training tool

Provide your service technicians with 3D models in virtual space and use VR as your personal training tool in the service area!

door2vr is our software solution for the visualization of machines in virtual space and makes it possible to take a look inside assemblies in an uncomplicated and convenient way.

Disassembling the machines not only supports technical work processes, but also promotes a deeper understanding of product design and use.

These functionalities can also be helpful in marketing and sales for product presentations to customers and interested parties.



Find the right parts!

