

# we connect

Professional online catalog with data merging and enrichment via PIM

**Torsten Hansen** 





1912

Leopold Kostal **founds** the parent company LK in Lüdenscheid



LK designs and produces its first **parts** for the **automotive industry** 



Beginning of business activities in the **first foreign subsidiary** (Mexico)



Transfer of the four **business divisions** into **own entities** 

2.774 bn EUR Revenues	<b>18,457</b> Employees
<b>46</b>	<b>20</b>
Sites	Countries

**Business Units** 



KOSTAL Automobil Elektrik



**KOSTAL Connectors** 



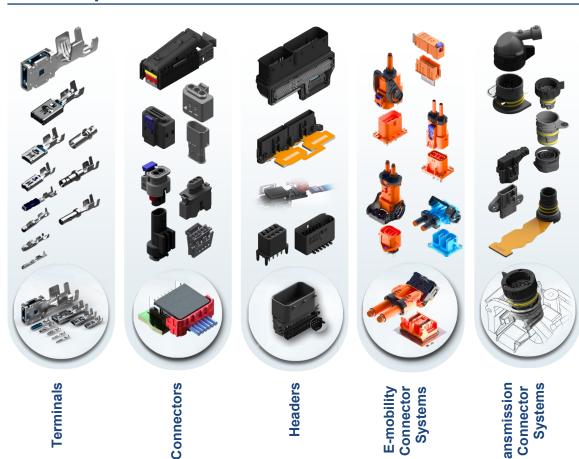
**KOSTAL Industrial Flectronics** 



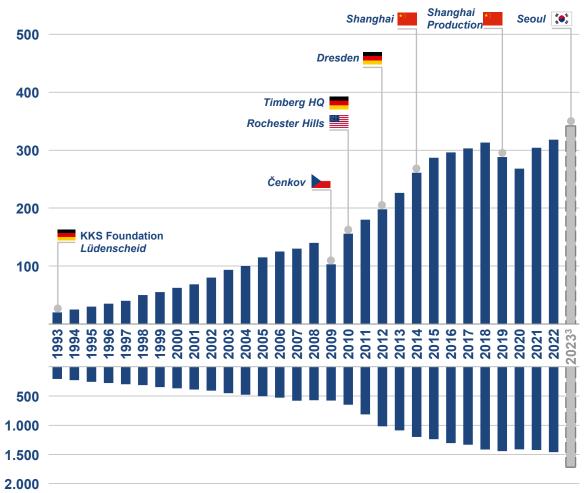
SOMA



#### **Product portfolio**



### Turnover and headcount development in m EUR, 1993-2023 (planned), consolidated





#### OEM





































ŠKODA









#### T1 / T2



















































TESLA

**CONNECTORS** 

#### Goals:

- Efficient, user-friendly, central maintenance of products and product variants
- Assurance of data quality
- Automatic creation of information sheets and customer-specific catalogs





- Import information from existing systems (ERP, PDM, EXCEL lists)
- Centralization of all product information in the PIM at item level
  - Supplementation and optimization of characteristics
  - Maintenance of product relations
- More efficient and central maintenance in the PIM of:
  - Product data incl. product images, document links
  - Relationships between products / product families / references
  - Product hierarchy
- Construction of an online catalog for customers
  - User friendly web catalog
  - Extensive search functions
  - Catalogs tailored to customer needs





#### **Advantages of ANTEROS:**

- Standardization: in the POC we were able to use a ready-made standard system
- Very intuitive to use
- o Flexible adaptability: in terms of data structure, interfaces, layout of our web catalog, ...
- Data model can be created and expanded by ourselves: categories and especially data fields
- Fully integrated modules: Product database, media database, web catalog and print all from one source
- Great search and comparison functions in the ANTEROS web catalog
- Best automatic print generation on demand

#### Advantages of INCONY:

- Supplier and service provider at the same time, highly competent project staff
- INCONY has experience with many companies in technical industries





- Market research, ANTEROS by INCONY was identified as best software
- > Proof-of-Concept (POC): ANTEROS test project with our own data and without customizations
- Decided on productive project with ANTEROS and INCONY
- > Concept phase: workshop, system specifications
- Implementation phase 1:
  - Import product data from the old web catalog: metadata, images, documents
  - Cleansing/improvement of the data
  - Go live with the new web catalog with selected products
- Implementation phase 2:
  - Further cleansing of the data
  - Make more products and more data on products available to the customer, e.g. 3D CAD data
  - Automatic print generation of information sheets
  - Exploded views with hotspots
  - Connection of the Active Directory via Single Sign On



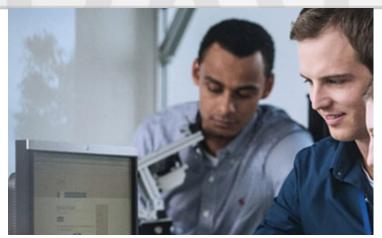
## KOSTAL

#### Data transfer from old online catalog

**➤** Unify data:

Before: sometimes text, sometimes numbers different spellings, e.g. upper/lower case

After: Uniform parameters and uniform parameter values

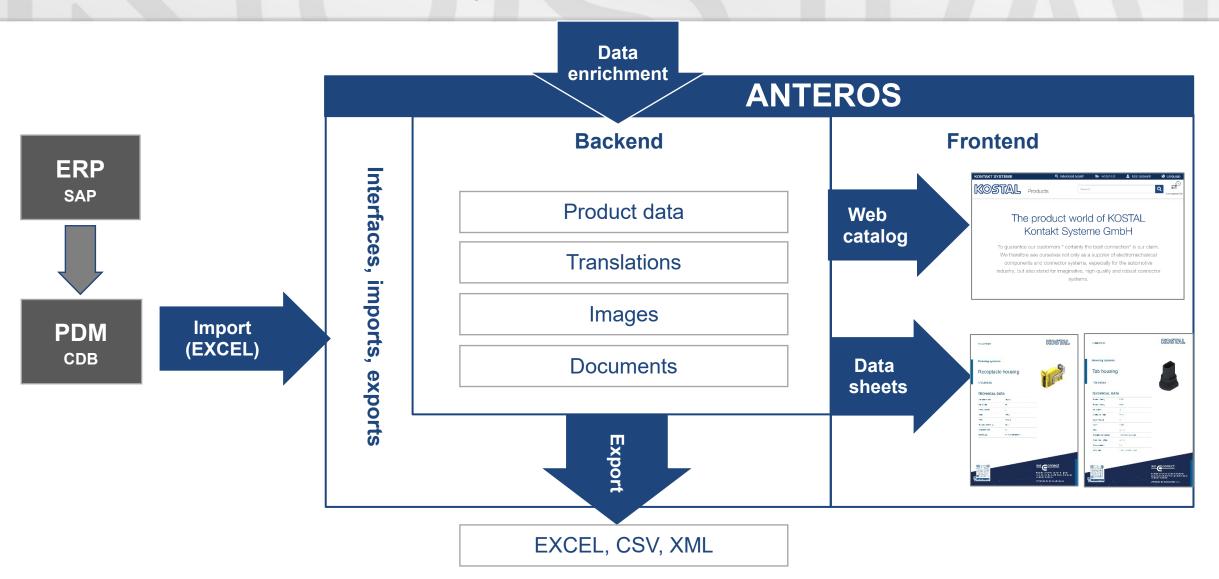


This allows consistent searches for products via filters in the PIM and online catalog,
 e.g. Sealability= sealed and/or wire size min. 12 mm²

#### Data enrichment :

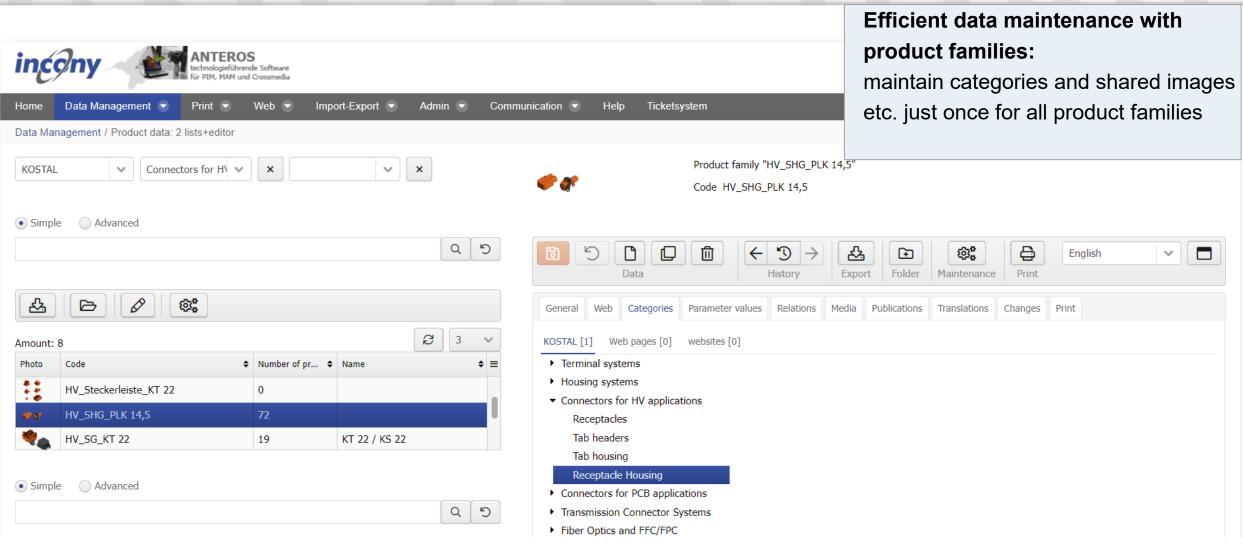
- Define search tree for online catalog via categories and subcategories etc.
- Define product families for grouping product variants, making maintenance of common data more efficient
- Import 3D CAD data, 2D drawings and data sheets
- Reprocess images, upload to PIM, assign to product (families)





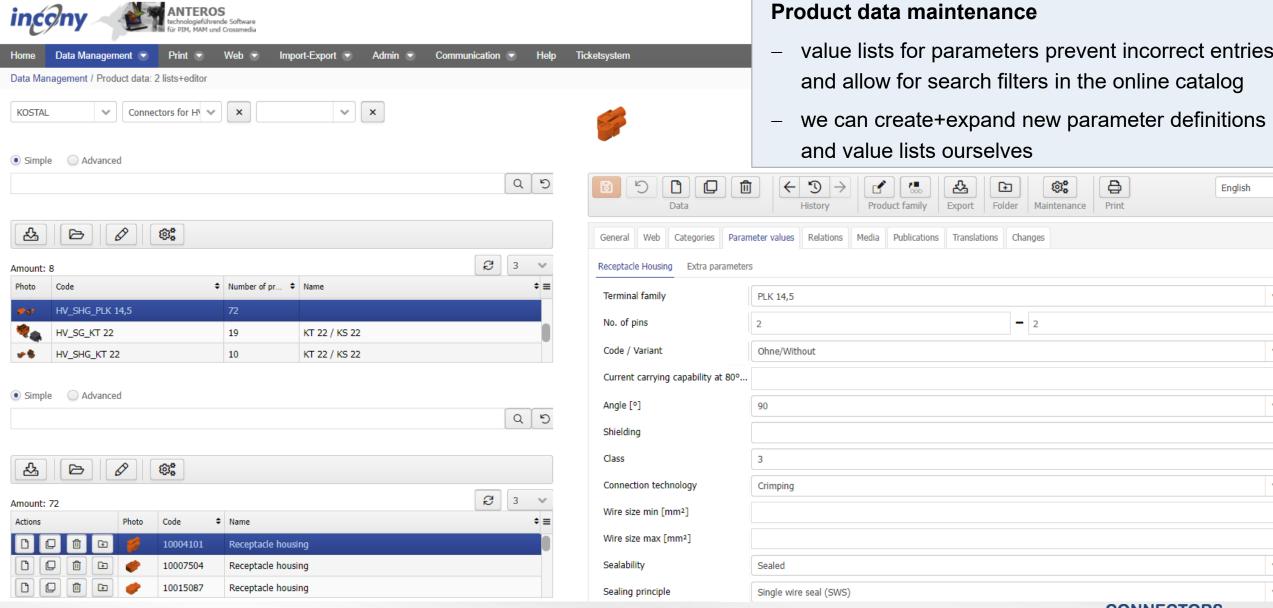
#### **ANTEROS PIM in Action: Data Maintenance**





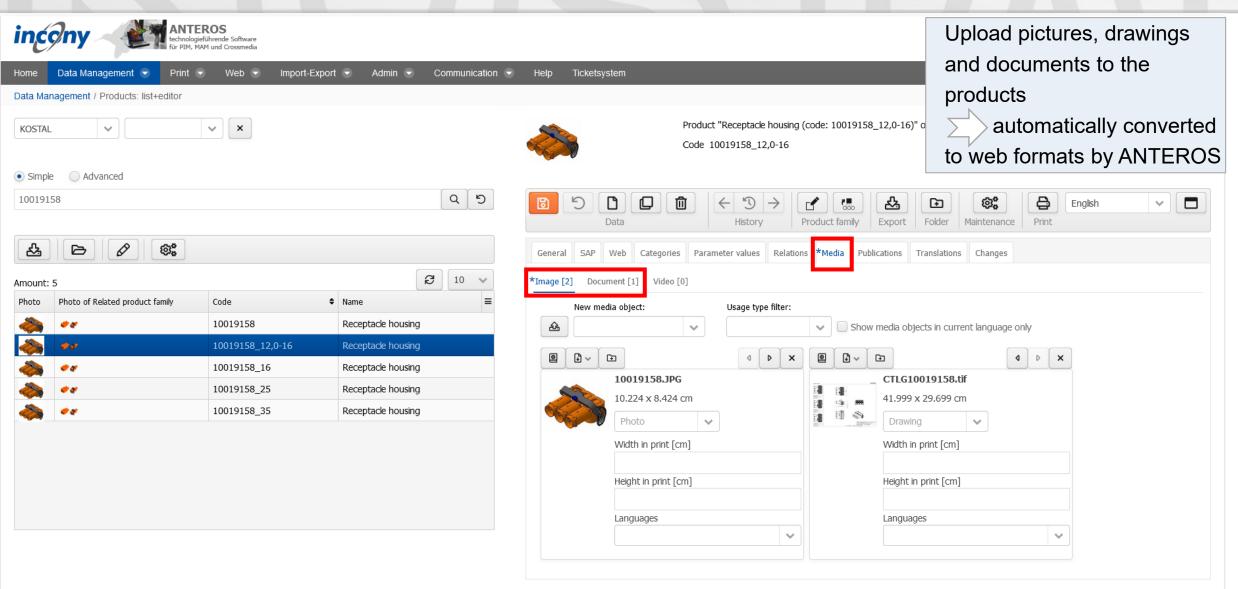
#### **ANTEROS PIM in Action: Data Maintenance**



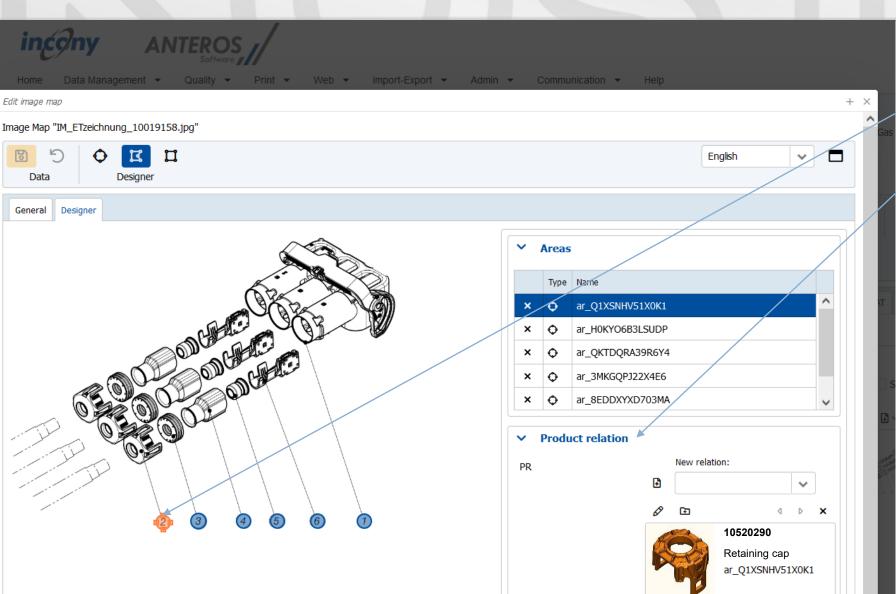


#### **ANTEROS PIM in Action: Images**





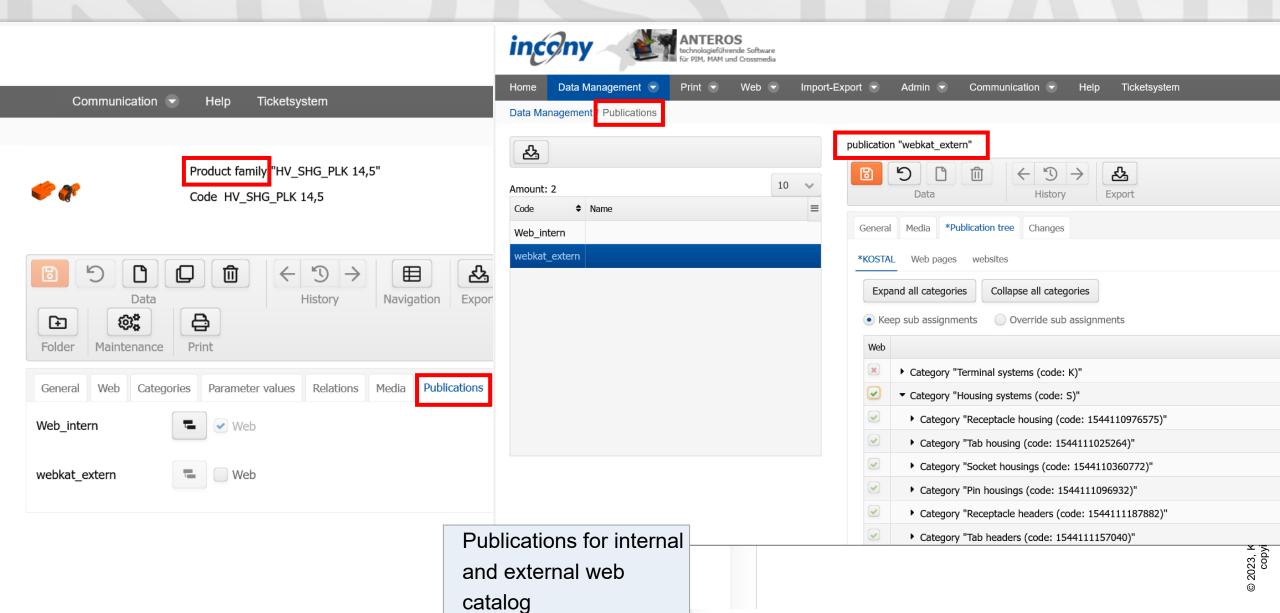




Set hotspots in exploded views and link them to products

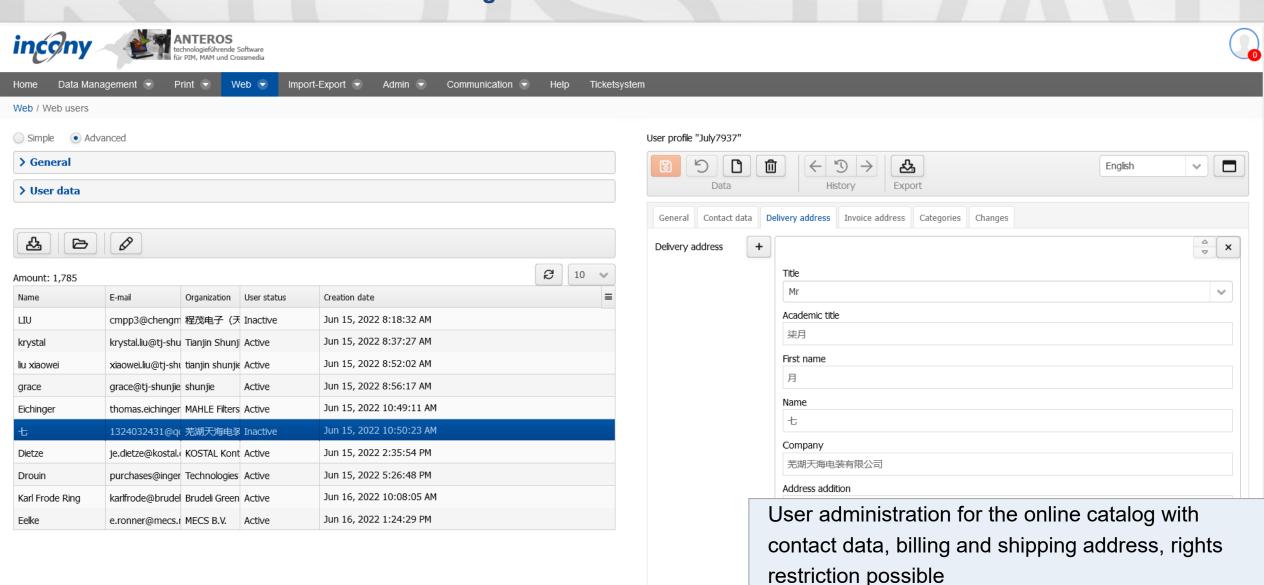
#### **ANTEROS PIM in Action: Publications**





#### **ANTEROS PIM in Action: Online Catalog Users**





#### **ANTEROS Information Sheets at the Push of a Button**







Information sheets can be generated fully automatically

- with PIM data
- in the KOSTAL design
- without Design software



# The product world of KOSTAL Kontakt Systeme GmbH

To guarantee our customers " certainly the best connection" is our claim. We therefore see ourselves not only as a supplier of electromechanical components and connector systems, especially for the automotive industry, but also stand for imaginative, high-quality and robust connector systems.

Customer approach and main categories on the home page









Terminal systems [21]

Housing systems [296]

Transmission Connector Systems [23]



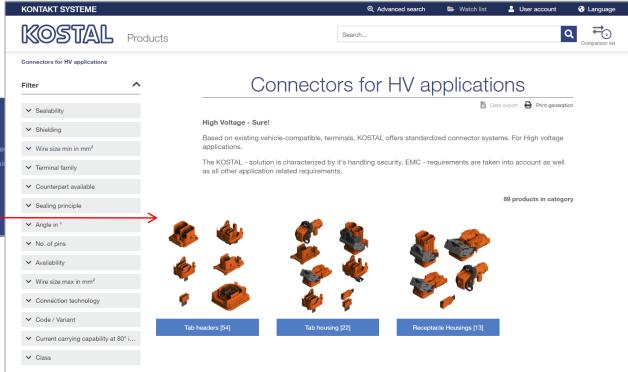


Without doubt the best connection: KOSTAL Kontakt Systeme GmbH

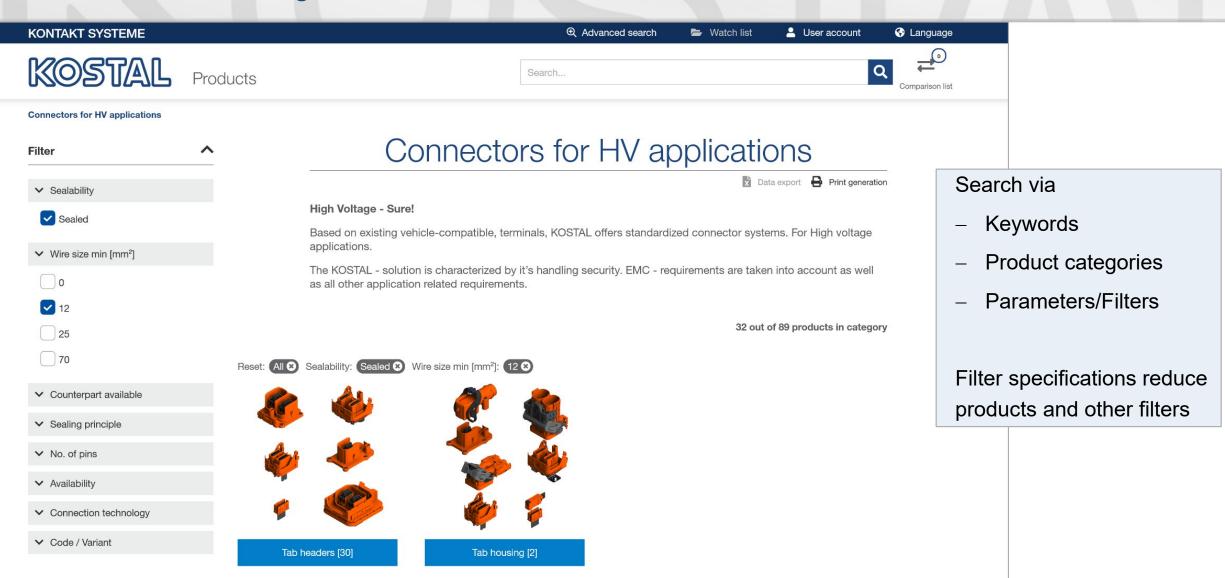
KOSTAL Kontakt Systeme GmbH is a company belonging to the KOSTAL Group, which engages in designing, manufacturing and sales of plug connectors systems for the automotive industry.



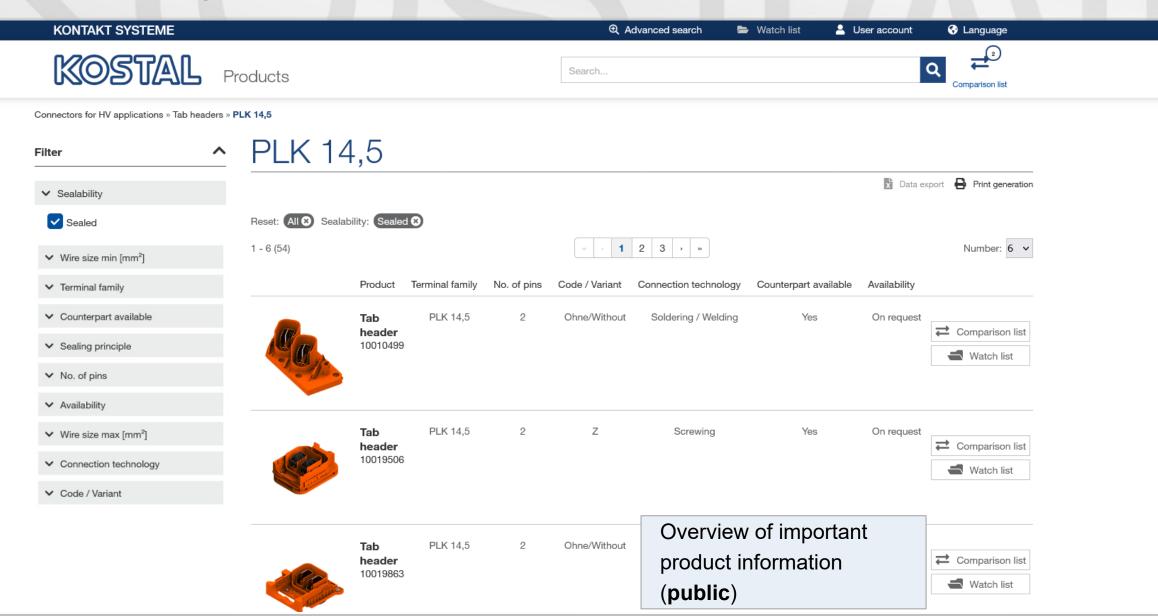
Seamlessly integrated into KOSTAL website, category-specific

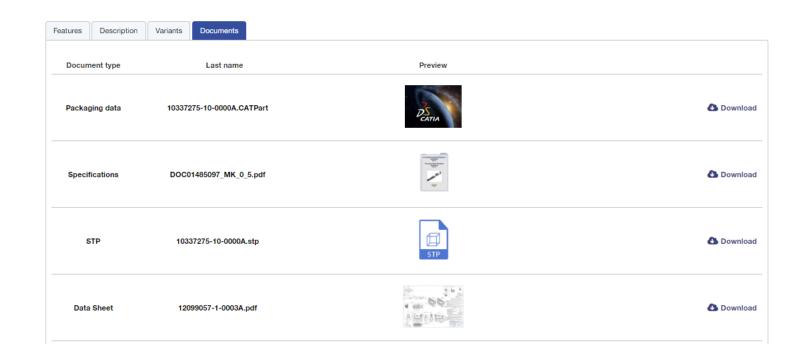










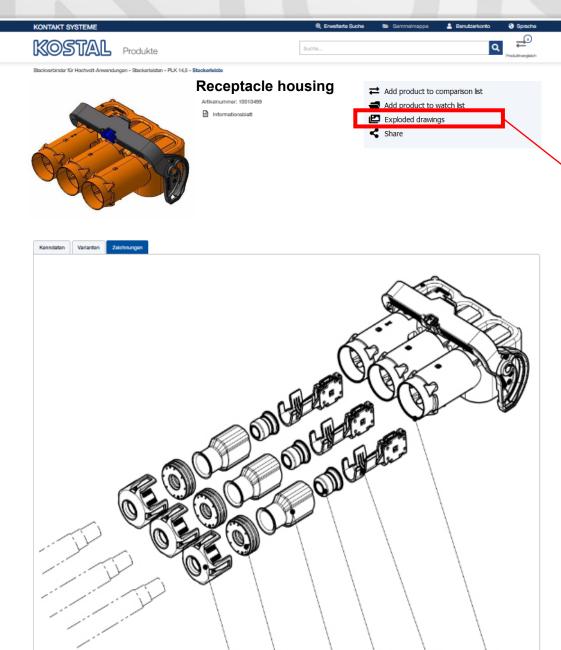




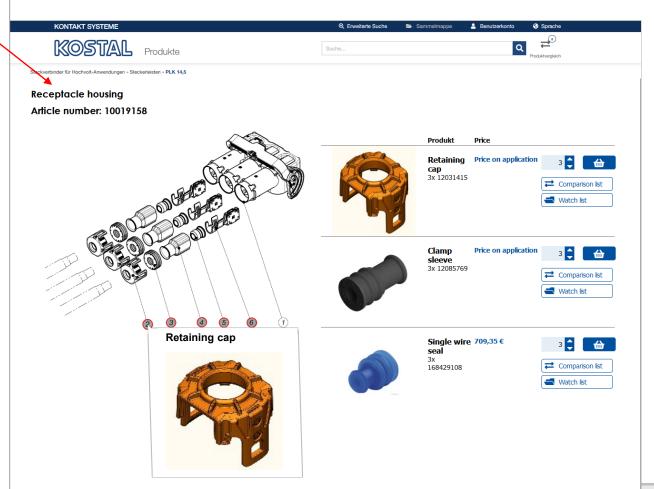
Product information for customers/partners (requires registration)

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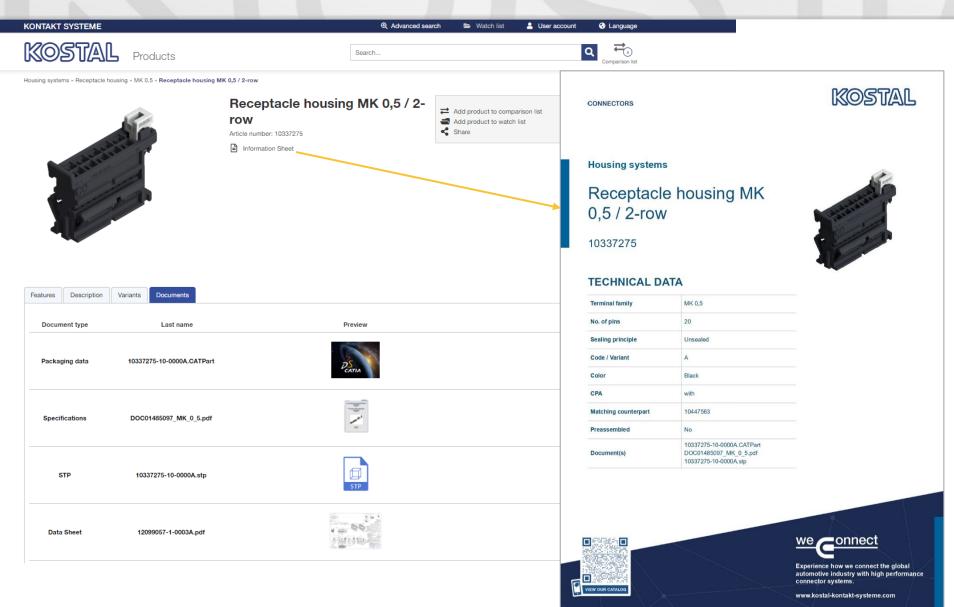




Exploded view:
Parts can be directly
clicked on via hotspots

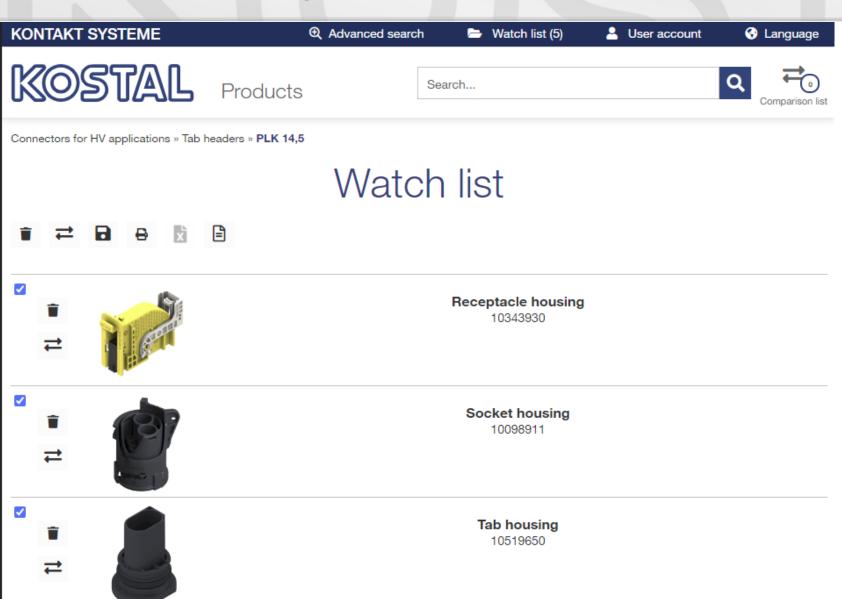






Information sheet: generated on-demand with the ANTEROS print engine © 2023, KOSTAL Kontakt Systeme GmbH. Contents and presentation are protected world-wide. Any kind of using copying etc. is prohibited without prior permission. All rights - incl. Industrial property rights - are reserved.





#### Watch list:

- as a wish list
- for information sheets for several products (customer catalog on-demand)
- list fully available for comparison

KOSTAL

Products

Search...

**₹**3

Connectors for HV applications » Tab housing » PLK 14,5 » Tab housing

### Comparison list

Product comparison:

Parameters with different values are highlighted in color

Product		• =	• =
	Tab header 48 V 2-way PLK 14,5 (straight tabs)	Tab housing 48V 90°	Tab housing
Article number	10508214	10509981	10022948
Picture			13
		Se	
		0	And the second
Terminal family	PLK 14,5	PLK 14,5	PLK 14,5
No. of pins	2	2	2
Code / Variant	А	Α	Α
Current carrying capability at 80° [A]	214		
Angle [°]			180
Connection technology	Screwing	Screwing	Screwing
Wire size min [mm²]	12	12	
Wire size max [mm²]	50	50	
Sealability	Sealed	Sealed	Sealed



ANTEROS offers fully integrated PIM, print automation and professional web catalogs

#### **Efficient data maintenance in the PIM:**

- Existing data regularly transferred from SAP and PDM
- Custom data models with categories and parameters (data fields) can be created by us and extended any time
- Simple, efficient input possible via inheritance, product families and value lists
- Images are automatically converted into various web formats

Information sheets and customer catalogs at the touch of a button: according to our CI, with data from PIM

#### **Professional online catalog:**

- Online catalog seamlessly integrated into the KOSTAL website
- In our CI, with data from PIM
- Good search functions, product comparison, page recommendation, exploded view with hotspots,...



# we connect

Dresden

Lüdenscheid Čenkov

Shanghai

We enjoy working with ANTEROS!

Detroit