



For enterprises of the tool-making and mold-making, the plastics-industries and casting-industries

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# *TOOL4SEARCH*

**Software solution for  
calculation and design**  
**Classified and geometric  
similarity search**



For enterprises of the tool-making and mold-making, the plastics-industries and casting-industries

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# *TOOL4SEARCH*

Industries independently

Organisationsbüro Bübel

only example



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# **TOOL4SEARCH**

**TOOL4SEARCH-Basis** (classified similarity search)



**TOOL4SEARCH-Extension** (geometric similarity search)



**IDEA:**

**Software solution for calculation and design**



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## ***TOOL4SEARCH-Basis***

Calculation by means of belly feeling / Memory / Excel tables



Calculation software



**IDEA:**

**Classified similarity search**





## ***TOOL4SEARCH-Extension***

**3D Articles data - Basis for calculation and design**



**3D Articles data - Recognition (fingerprint)**



**IDEA:**

**Geometric similarity search**



# **TOOL4SEARCH-Partnership**

**Geometric similarity search**



**Partner software**



**IDEA:**

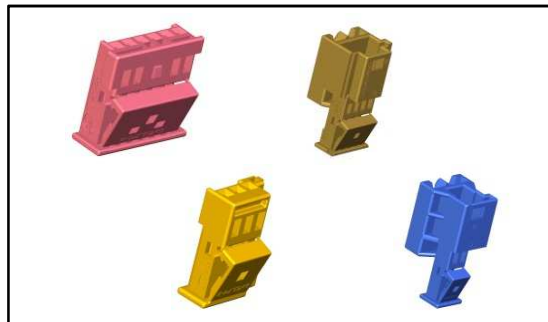
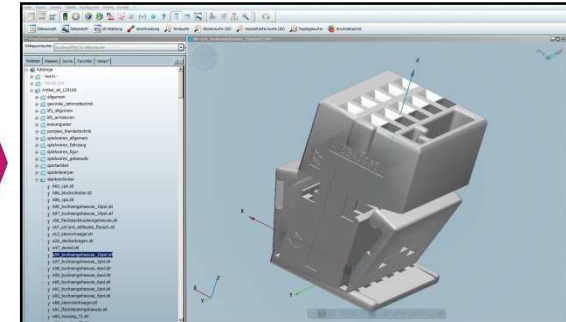
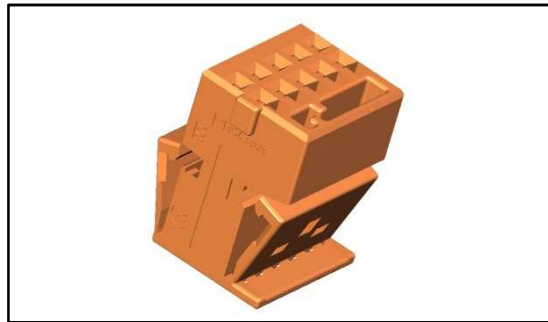
**CADENAS - PARTsolutions/GeoSearch**



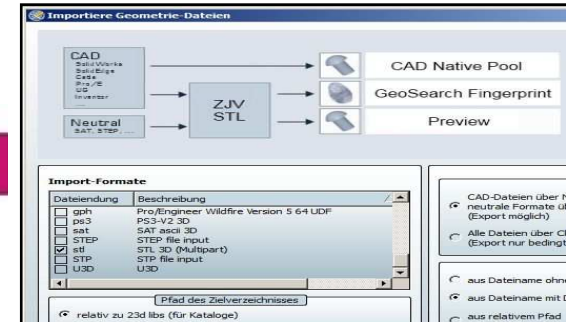
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# Geometric similarity search

Comparable articles find over finger printer identification



Rang	Ähnlichkeit	Vorschau	Einzelansicht	Katalog	Name	Beschreibung	Datum
1	100%				Artikel_01_1... e61_buchsengehäuse_top.stp		09.01.2012
2	83%				Artikel_01_1... e60_buchsengehäuse_top.stp		09.01.2012
3	83%				Artikel_01_1... e62_buchsengehäuse_top.stp		09.01.2012
4	79%				Artikel_01_1... e59_buchsengehäuse_top.stp		09.01.2012
5	79%				Artikel_01_1... e57_buchsengehäuse_top.stp		09.01.2012







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## ***TOOL4SEARCH-Range of application:***

Article calculation/design

Mold calculation/design

Mold manufacturing/maintenance

### **TARGET:**

**Standardization - advantage by utilization**



## Article design

### Standardization - advantage by utilization

Articles find fast

Article variety up to 50% reduce

Doublet formation avoid

Re-use increase

New developments shorten



## Mold design

### Standardization - advantage by utilization

Molds find fast

Mold variety up to 30% reduce

Doublet formation expand

Re-use increase

Design times shorten



# Mold manufacturing/maintenance

## Standardization - advantage by utilization

Spare parts find fast

Spare parts variety up to 50% reduce

Spare parts camps make smaller

Manufacturing costs shorten



**Konstruktionsbüro**  
**Herbert Bübel**

**Organisationsbüro**  
**Herbert Bübel**



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# End of the presentation

Thank you for  
Your attention