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# Five steps to easy, fast and reliable tool calculation

In the past few years, the departments calculating tools for injection molding, die casting and extrusion processes have undergone major changes. In companies manufacturing 50 tools per year on an average, the calculator had to prepare about 250 calculations in the past. Due to the extremely rising cost pressure, the employee in charge now has to make 750 calculations, i.e. three times as much as before - and that within the same time.

In the future, a calculator will presumably be forced to process 1,000 offers and more within the same period, the usual reliability and without quality cutbacks. But how can this be done? Due to the classified and geometric similarity search, the use

of “TOOL4SEARCH” will be the only way to follow in the future for easy, fast and reliable tool calculation in five steps. Furthermore, the knowledge database ensures efficient, time-saving and hence cost-effective performance of work throughout the entire order

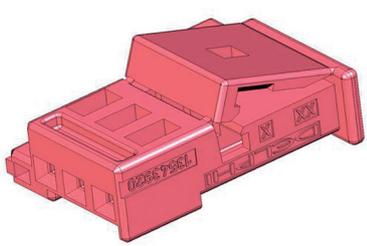
processing period. After first fulfilment, which means provision of existing data, reports, instructions as well as general notes etc. to the company’s SAP, PPS, EPS systems and the staff’s PCs via interface, the further proceeding is as follows:

**Werkzeugspezifikation**  
mold specification

1. Allgemeine Information / general information			
Kunde: customer:	Anfrage Nr.: number of inquiry:	Angebot Nr.: quotation number:	
Teilebenennung: part name:	Werkzeugnummer: mold number:	Liefertermin: date of delivery:	
Teile-Nr./part no Zeichnungs-Nr./drawing no	Index: index:	Eingangsdatum: date of receipt:	
Anspruchspartner: contacts:	kaufmännisch: commercial: Technisch: technical:	Projektbetreuung: project management :	

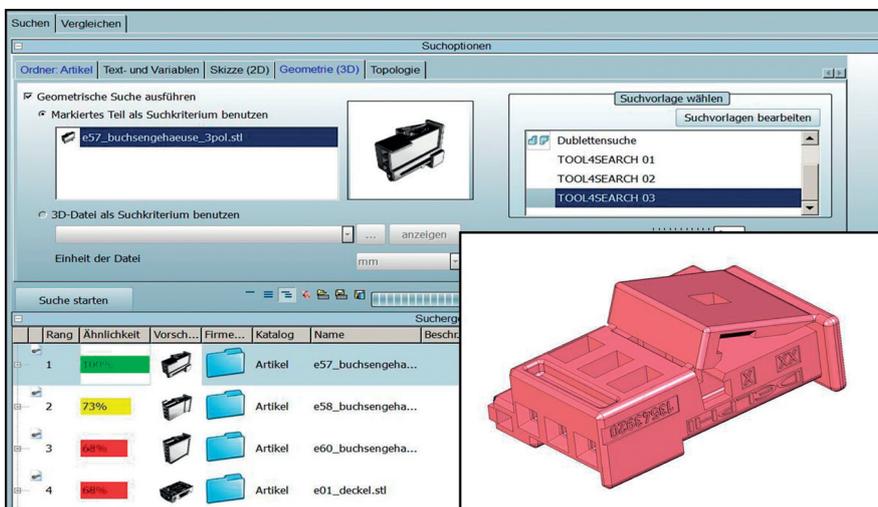
<input type="checkbox"/> 1-fach	<input type="checkbox"/> 2-fach	<input type="checkbox"/> 2+2-fach
Handelsname: trade name:		
<input type="checkbox"/> neutral	<input type="checkbox"/> in Verantwortung des Auftragnehmers in responsibility of the contractor	
<input type="checkbox"/> halbautomatisch semiautomatisch	<input type="checkbox"/> vollautomatisch + Handling fully automatic with handling	
Abbringungsmenge: duction capacity:	Schuss no. of shots	
Schuss no. of shots	Jahre years	
Formtemperatur: form temperature:	Gramm grammes	
Schussgewicht: shot weight:		



Step 1

## Step 1

For bid preparation it is indispensable to check if the inquiry documents are complete and to analyse the tool functions. All submitted tool specifications, item data and drawings, machine documents, purchaser’s company standards, and all information made available, including reference designs, should immediately be stored in the knowledge database.



Suchen | Vergleichen

Suchoptionen

Ordner: Artikel | Text- und Variablen | Skizze (2D) | Geometrie (3D) | Topologie

Geometrische Suche ausführen

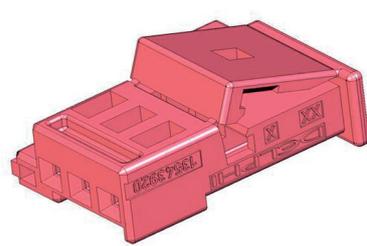
Markiertes Teil als Suchkriterium benutzen

3D-Datei als Suchkriterium benutzen

Einheit der Datei: mm

Suche starten

Rang	Ähnlichkeit	Vorsch...	Firme...	Katalog	Name	Beschr
1	100%		Artikel	e57_buchsengeha...		
2	73%		Artikel	e58_buchsengeha...		
3	66%		Artikel	e60_buchsengeha...		
4	55%		Artikel	e01_deckel.stl		



Step 2

## Step 2

3D item search uses the optical searching method by fingerprint recognition based on algorithmic calculations. The way of proceeding is quite simple. The item received from the customer must be imported into the system which automatically creates a kind of fingerprint. The next mouseclick already will show a list of the most similar items stored in the system.

