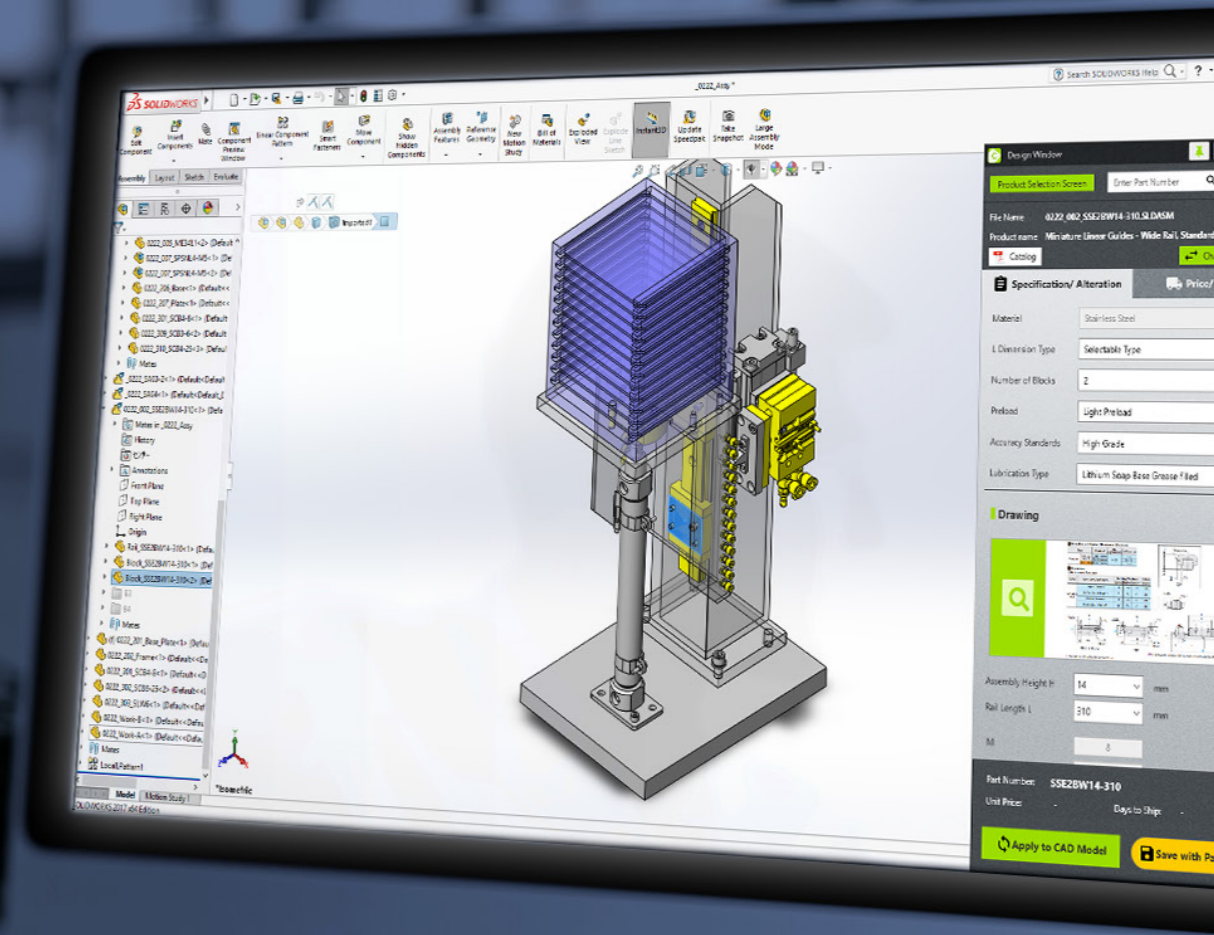


# DESIGN COMPLEX MACHINE COMPONENTS

## SIMPLER AND 30% QUICKER

EXCLUSIVE ADD-ON FOR SOLIDWORKS USERS



IT'S ALL ABOUT TIME



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## IMPRINT

WHITEPAPER  
RAPiD Design

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## EDITORIAL



**It's all about time:** It's all about time: Time is one of the biggest challenges in special machine construction now more than ever before. This is already the case for the design and order process. Designers require the most efficient solutions for designing components. This is because the project cycles are becoming shorter and shorter and there is a continuously increasing shortage of skilled professionals. Fewer employees currently have to do more work. This is where the providers of machine components need to help their customers optimise processes and achieve a high level of internal standardisation.

Commitment to service has top priority for **MISUMI**. As many of us are also designers, we understand the market requirements. We help to make the design process as efficient and stress-free as possible with **MISUMI RAPiD Design (inCAD Components)**. Our add-on is available in German and English for the 3D-CAD programme SolidWorks from Dassault Systèmes. We designed MISUMI RAPiD Design (inCAD Components) in conjunction with designers and continuously develop the programme by taking into account user suggestions to enhance the user experience. Find out the specific benefits the add-on has to offer in our white paper.

Enjoy reading!

**Yours sincerely**  
**Lars Szatmari**  
*Application Engineer at MISUMI*

➔ MISUMI eShop



➔ MISUMI RAPiD Design



## CONFIGURING COMPONENTS ONLINE

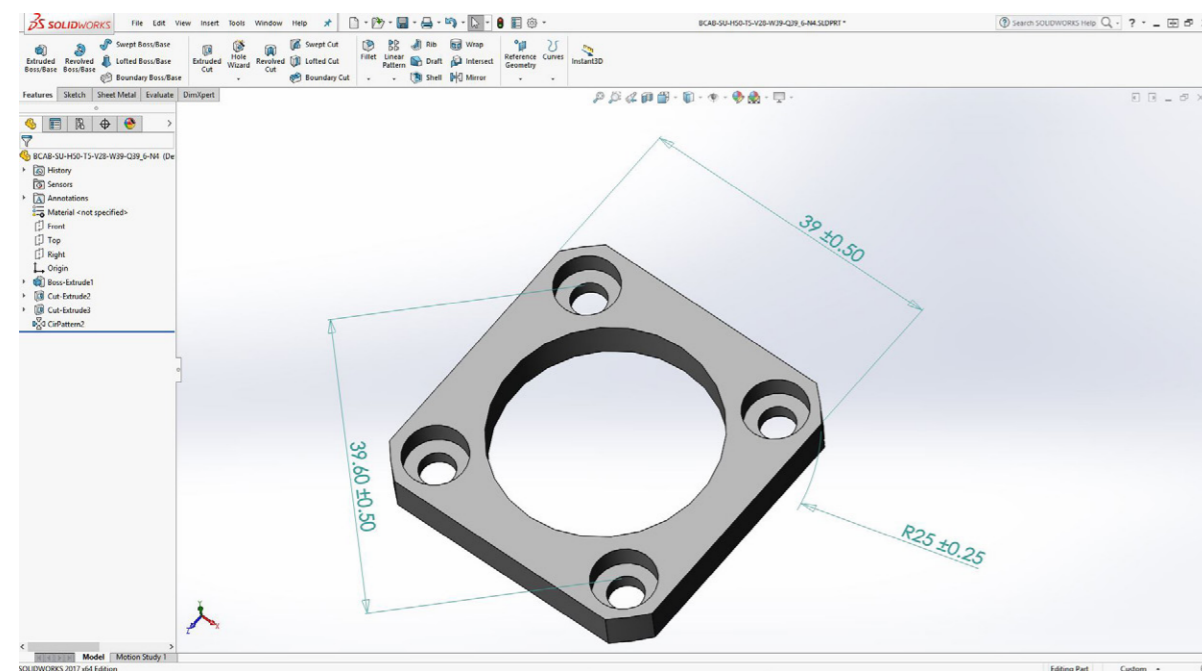
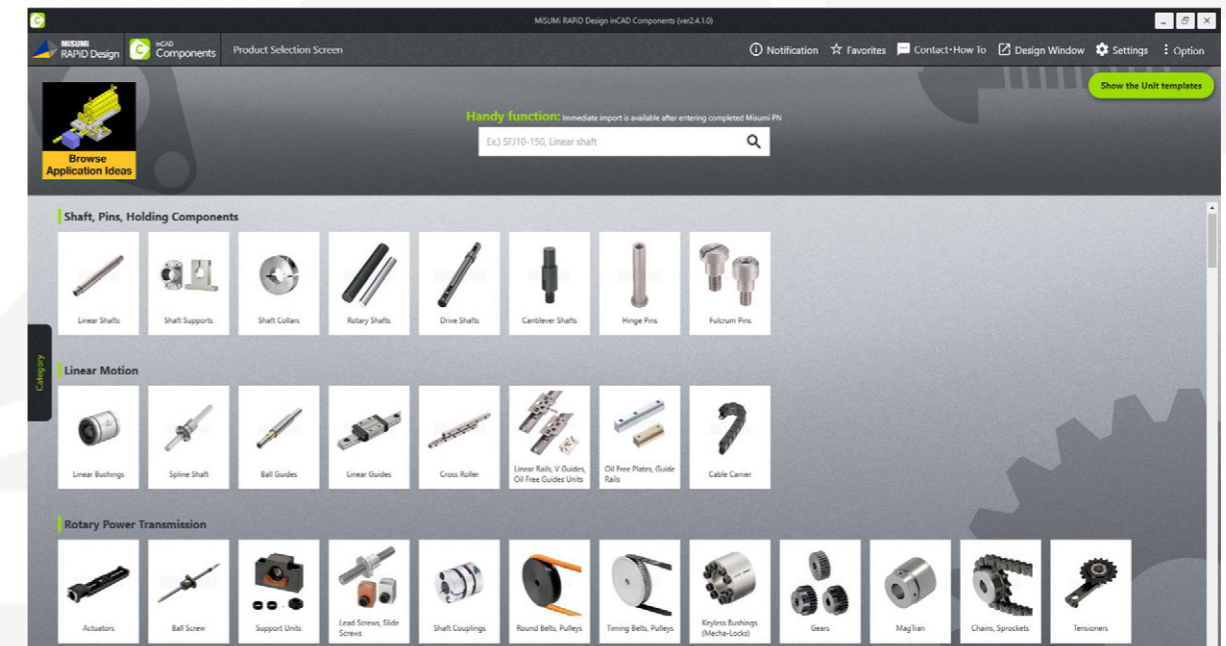
Designing machines digitally using CAD software solutions such as **SolidWorks** is an established process. The required components can sometimes be downloaded as CAD models from the corresponding providers and integrated into the design software. This enables designers to save time and easily determine whether a component is suitable for the intended application. Despite the fact that it takes less time to configure components on the website than design them yourself, it is more complicated as soon as a part needs to be changed. The component must be configured again on the website and imported into the design software. It takes a very long time to search for the right component – especially from providers with a very large number of different components.

There is now a better way for SolidWorks users: Engineers can integrate components directly into SolidWorks with the design tools of **MISUMI RAPiD Design (inCAD Components)** and simply modify them in the add-on as required. If users have access to the MISUMI online shop, they can even order parts directly. This helps designers to simplify and accelerate their product development considerably.

## DEVELOP MACHINES AND APPLICATIONS QUICKER WITH MISUMI RAPiD DESIGN (INCAD COMPONENTS)

MISUMI RAPiD Design (inCAD Components) is a CAD library integrated into SolidWorks and is connected to design tools. The programme already covers 97 percent of MISUMI products at present. The most interesting factor is the numerous freely configurable make-to-order (MTO) components that can sometimes be configured in 0.01 millimetre increments. Designing these components precisely to your individual requirements can be time-consuming. MISUMI RAPiD Design (inCAD Components) makes designers' work easier, as the add-on recognises used components, which means that parts can be accessed

again at a later date and simply modified as required. Users of the add-on can also create models of components in dimensions that are not included in the MISUMI catalogue. The designer therefore receives a CAD model that he can hand over to in-house production. We will show you the main benefits of MISUMI RAPiD Design (inCAD Components) on the next pages.



MISUMI  
RAPiD Design

## TIME SAVING

Engineers design their components clearly, cost-effectively and above all quickly with MISUMI RAPID Design (inCAD Components). Figures show that the design time can be reduced by up to **30 percent** with MISUMI RAPID Design (inCAD Components). The new add-on means that designers don't have to search websites of component providers for exactly the right component and select the component based on particular dimensions in the on-line catalogue. They can simply download a basic product such as a

shaft and then adapt it in SolidWorks according to their individual requirements. If an already used component subsequently needs to be modified, the designer doesn't have to start the process from scratch, but instead can change the part directly in SolidWorks.

## REPRODUCIBILITY

Users of MISUMI RAPID Design (inCAD Components) can access a MISUMI component that has been used once in SolidWorks at any time. The basic system, the data sheet and the price are up-to-date and can be accessed in the MISUMI shop at any time. The parts lists including the product code are continuously and automatically updated. This ensures all data that may be required for possible subsequent work steps such as modifying a component is held securely. MISUMI RAPID Design (inCAD Components) can be used to change all dimensions and specifications of a model directly in SolidWorks. The MISUMI product range is closely aligned to designers' work conditions.

However, sometimes it is more important to prevent changes rather than make them. The final status of the MISUMI component can be irreversibly fixed by saving it in the "reduced data size". This rules out an unintentional change to the component through MISUMI RAPID Design (inCAD Components).

### The MISUMI workflow

For a minimum number of design steps:

- 1 Select the basic product in MISUMI RAPID Design (inCAD Components) and import it to SolidWorks
- 2 Configure the component in SolidWorks according to individual requirements and confirm the changes through the add-on
- 3 Make any changes to the edited component directly in SolidWorks or through the design window in MISUMI RAPID Design (inCAD Components)

### In MISUMI RAPID Design (inCAD Components)

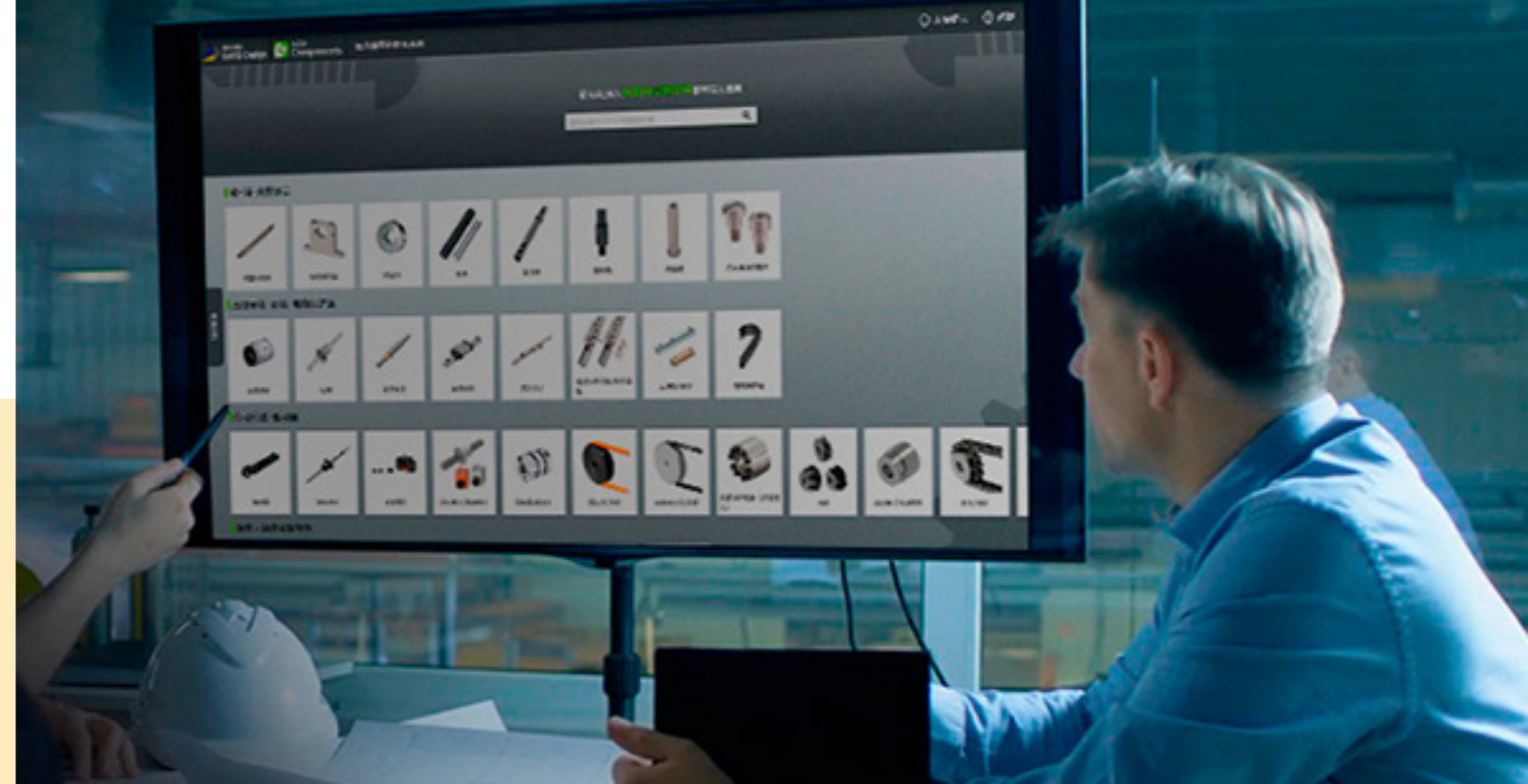
Accessible at any time:

- The basic system of a used component
- The data sheet
- The price
- The product code

# TRANSPARENCY

The price, lead time and various design specifications can be displayed with MISUMI RAPID Design (inCAD Components) with just a few clicks. The online tool makes it extremely easy for designers to save costs and make efficient purchases. All you need to do is click on the MISUMI RAPID Design (inCAD Components) component that is to be compared in the 3D model in SolidWorks. For an alternative search, users have the option of filtering according to certain specifications.

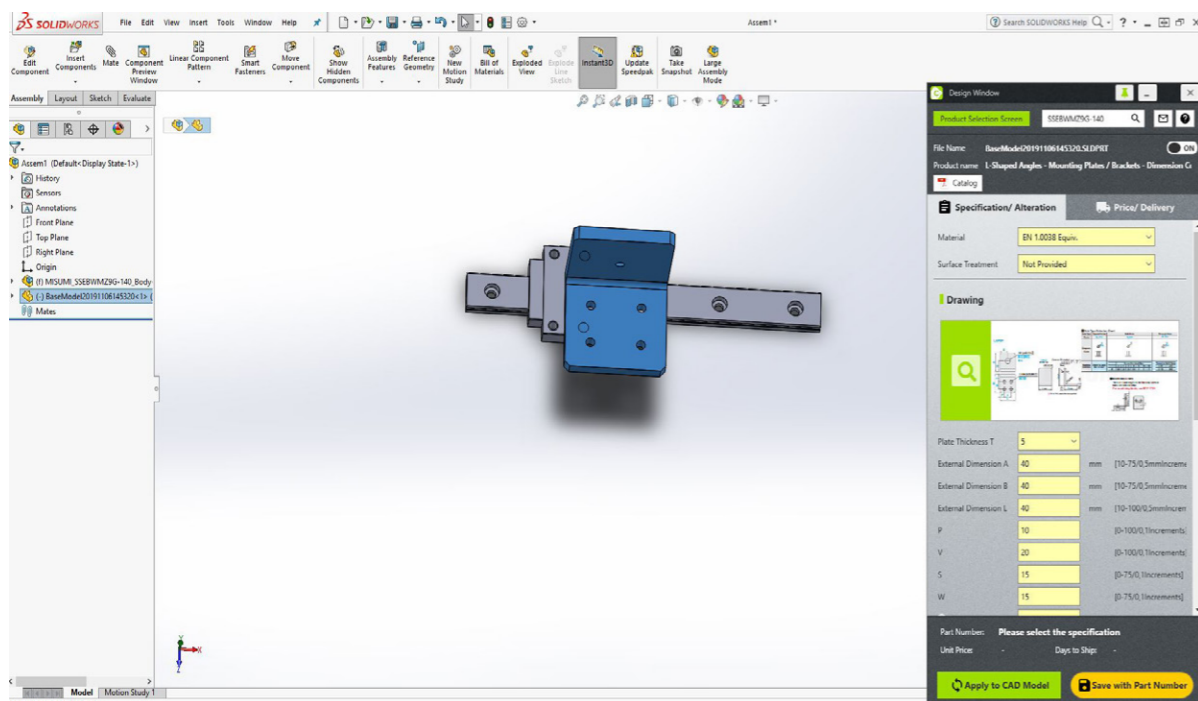
Several users can also benefit from one design in MISUMI RAPID Design (inCAD Components). A user can make his design accessible to others who can identify which specifications were used based on the data. As the properties of the configuration are listed in a file, the data of the used components can simply be entered later in the ERP system as required.



## AT A GLANCE: MISUMI RAPID DESIGN (INCAD COMPONENTS)

- ➔ Reducing the design time by up to 30 percent
- ➔ 97% of MISUMI products are already included
- ➔ Import the basic product and simply configure it in SolidWorks
- ➔ Change components directly in SolidWorks, if required
- ➔ Parts lists with product codes are updated automatically
- ➔ View the price, lead time and specifications of different products quickly
- ➔ Data can be shared with other users
- ➔ The process is based on the work steps of designers

**EFFICIENT, COST-EFFECTIVE AND STRESS-FREE DESIGN PROCESS**



## ABOUT MISUMI

MISUMI is a global manufacturer and leading provider of more than 20 million mechanical components and indirect materials for special machine construction and assembly automation. The focus of the MISUMI product range is the one-stop shop concept: Designers cover up to 70 percent of their requirements for an application with the online platform from the specialist in machine components. Components can be configured and purchased very quickly and cost-effectively. Especially as components can be configured directly online and downloaded free of charge as CAD models in more than 40 different native formats. This eliminates the need to create drawings and the subsequent management of the request process which saves a significant amount of time and results in a process cost reduction of up to 40 percent.

The savings potential is especially high for make-to-order (MTO) components that offer a number of configuration options and can therefore replace many production parts. These tailor-made solutions for specific customer requirements are the central element of the MISUMI product range. MTO components of a consistently high quality are available worldwide from batch sizes of 1 or more with short delivery times and without a minimum quantity surcharge. The product range also comprises standard products produced in-house and externally that can sometimes be delivered within a day. MISUMI offers designers a one-stop shop in this way by covering the majority of their needs.

### → MISUMI profile

Founded:	<b>1963 in Tokyo</b>
In Europe since:	<b>2003</b>
Employees worldwide:	<b>12,300</b>
Employees in Europe:	<b>300</b>
Turnover:	<b>2.7 billion</b>



## CONTACT



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