

# Transparently calculate parts.

With classmate PLAN, you are already in control of the pre-calculation during the design stage. Within seconds, the software detects work processes, calculates the production costs, and exposes cost drivers early on. Transparently and conveniently.

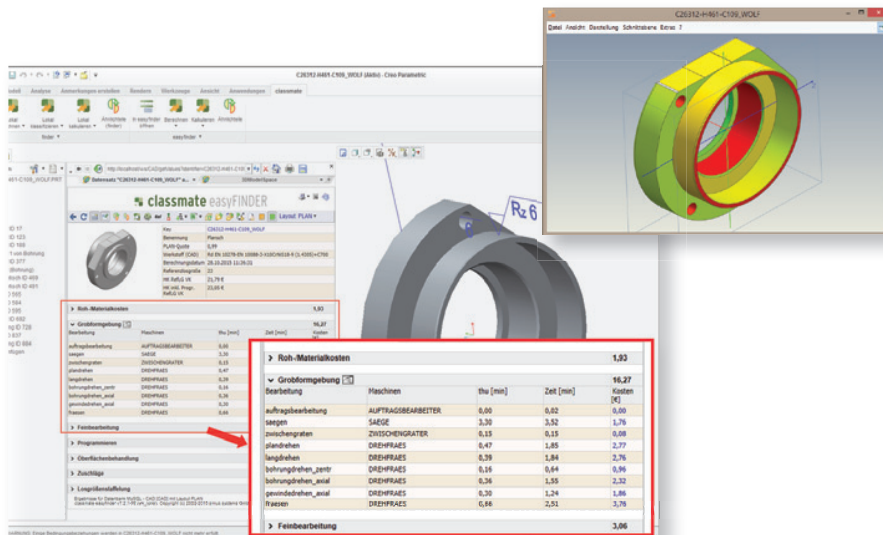
 **simus classmate**



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Relieves designing engineers, the work preparation, and the budget.



With the help of classmate PLAN, you can also profit from these advantages:

- ✓ Already know the production costs during the design stage
- ✓ Make make-or-buy decisions fast and knowledgeably
- ✓ Work plans are created automatically
- ✓ Underlying data are correct and current
- ✓ Work preparation is significantly lightened
- ✓ Material selection is simplified
- ✓ Cost drivers are identified

## classmate PLAN: Automatic pre-calculation. Including work plans.

### Pre-calculation during the design stage

classmate PLAN generates the pre-calculation of a part on the basis of the 3D CAD model and the available production technologies. That way, classmate PLAN even creates a calculation for a complex unit in a short period of time. The calculation can be carried out on different premises, whether it is a cost comparison between the prototype and serial production or production alternatives at different production locations.

### Automated work planning

The result of the analysis can be used for automated work planning. classmate PLAN detects – based on the analyzed geometry of a part – which work steps are necessary in which order, and generates a work plan for the work preparation in a matter of seconds. This way, the process speeds up enormously. The level of detail of the work plans can be defined and various output formats are available. There is a direct interface with SAP®.

### Flexible calculation basics

General calculation parameters of production technologies are already recorded in a technology database such as cutting values for turning and milling processing. Individual parameters, such as machine hour rates, can be configured and easily adjusted to customer-specific demands. Therefore, the effort for the maintenance of the calculation basics is minimal.

### Up-to-dateness and small error rate

Raw material prices and other relevant purchasing factors can be retrieved directly from the master data system and instantly used for the calculation. This approach ensures correct and current data and guarantees optimal calculation results.

### Calculating the times and their costs

When evaluating times for the cost calculation, class-mate PLAN orients itself on the REFA specifications. In addition to the production cost calculation, a full costing is also possible, e.g. in order to be able to evaluate offers from external suppliers.

### Visual support

In order to make the cost structure of a part clear to the designers at a glance, the model can easily be colored according to “traffic light colors” in classmate FINDER or easy-FINDER. “Expensive” production surfaces are colored red, while “cheaper” production surfaces are colored yellow or green. Details on production processes and costs for this surface are issued by selecting a surface. When changing the CAD model and a new calculation, the price change of the part up to the individual production surface can be shown in table form via different change statuses.

Interfaces to CAD systems: Autodesk Inventor, Catia, PTC Creo Parametric, Siemens NX, Solid Edge, SolidWorks