**Tebis Launches Complete CAD/CAM System 4.1**

# *Even greater automation of process flows | Simple and intuitive user guidance | Parametric/associative system base with solid kernel*

# Number of characters and images:

Approx. 5,900 characters

6 images

Image rights Tebis AG

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**Tebis Launches Complete CAD/CAM System 4.1**

## Martinsried, January 14, 2021 – Tebis, a specialist in CAD/CAM and MES process solutions in model, die and mold manufacturing, is breaking new ground with the launch of its complete CAD/CAM system 4.1 in early December of 2020.

## Tebis 4.1 is a complete parametric-associative CAD/CAM system that supports highly automated processing in a single system for selected tasks in design, manufacturing preparation and CAM programming.

**Bernhard Rindfleisch, Tebis AG company founder and Chairman of the Board, explains: "With Tebis 4.1, we are providing both medium-sized companies and major enterprises with an end-to-end solution that will provide their manufacturing processes with long-term future viability."**

The most important features and characteristics of the new complete system from Tebis at a glance:

## ****Robust CAD hybrid system combines free-form surfaces and solids**: The newly developed parametric/associative system base is specifically adapted to the requirements of single-part and small-series manufacturing, where everyday challenges include tight delivery deadlines, frequent component changes, a large number of variants and varying levels of data quality. In contrast to many other volume-based systems, Tebis therefore doesn’t distinguish between surfaces and open or closed solids. All objects can be intersected without causing error messages. Tebis always calculates a result – even if there are gaps in the surface topology. Another benefit: Like in the CAM environment, templates can now be used to structure and standardize CAD activities.**

* **Simple and intuitive user guidance: A true highlight is the new user guidance, which has been improved in close collaboration with Tebis users. It’s is consistently oriented to the logical work methods of CAD designers and CAM programmers. The revised structure tree always gives the user a clear overview: In the CAD node, you can view CAD elements and quickly and easily adjust objects designed using parametric/associative methods based on their creation history. Analogously, the CAM node in the tree contains the Job Manager.**

**With the new Job Manager and Tebis NCJob technology, CAM programmers can create and manage all NC programs for all technologies needed to manufacture a component – from milling to turning to hardening. The Job Manager reflects the entire manufacturing process with clearly structured operating sequences and guides the user logically through CAM programming.**

**Another big benefit is the personalized user interface: It can be configured individually and therefore be precisely adapted to specific tasks and requirements. Of course, these configurations can also be used as templates for company-wide standards.**

* **Even more process automation: The 4.1 platform provides all the necessary prerequisites for safe, fast and reduced-personnel production and supports the automation of all manufacturing processes.**

**The ProLeiS MES software, with which even complex manufacturing projects can be planned, controlled and executed automatically, is fully integrated. As an integration platform, ProLeiS can also be easily combined with upstream and downstream systems like PDM, ERP and machine control systems.**

**The proven virtual process libraries, in which all of the real manufacturing components are represented to the last detail in the form of digital twins, have been supplemented with a clamping device library. This can be used to conveniently create and manage clamping elements and clamping device groups and to set up the machine in the virtual environment. All relevant information is transferred with the NC documentation to the person responsible for setup.**

**All measuring tasks are also fully integrated in the manufacturing process. This allows users to check in the CAM system to see if the component is correctly clamped and the blank is correctly dimensioned and oriented – ensuring shorter setup and machining time, higher component quality and fewer correction iterations.**

**For even greater safety, the machine head is fully accounted for in collision checking during NC calculation. In the event of potential collisions with the machine head, the affected areas are automatically reduced or excluded from machining. The same also applies here: The check is performed using the real head geometry, not a substitute geometry.**

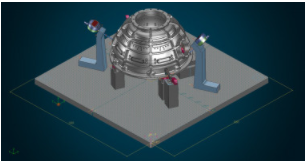
*+++ Note for editors: Our newsroom will be preparing press releases with more details on the topics of "Hybrid parametric/associative CAD system," "Simple and intuitive user guidance," "Integrated clamping device library," "Integral measurement in the process" and "Automatic collision avoidance strategies." +++*

Tebis 4.1

The new Tebis 4.1 complete system is available as of December 2020. It’s designed for enterprise customers on all scales in the die, mold and model manufacturing and production machining industries. Tebis 4.1 is a platform for the complete automation of all process flows in modern manufacturing companies.

Enterprise customers have full access to Tebis' expertise for installing and their ongoing work with version 4.1. A modular training concept and training courses for special manufacturing processes enables Tebis users to fully exploit the potential of the software and improve their business processes for future viability. In addition to the validated expertise of the Tebis service team and numerous application games and interactive opportunities for exchanging ideas in the online community, a dedicated support team is also available for user questions.

**Images**



***Image 1***

*Easily modified parametric/associative system base with integration of CAD templates*

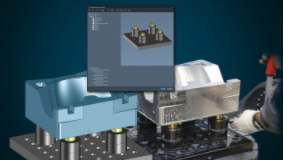
(Image: Tebis AG)



***Image 2***

*Simple and intuitive user guidance, clear overview*

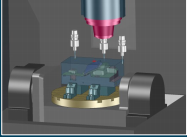
(Image: Tebis AG)



**Image 3**

*Manage clamping devices and set up machine in the virtual environment*

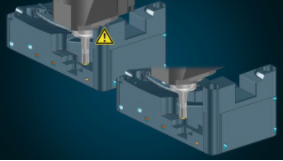
(Image: Tebis AG)



**Image 4**

*Correct reference point in process-integrated measurement*

(Image: Tebis AG)



**Image 5**

*Automatic area reduction that accounts for the machine head*

(Image: Tebis AG)



**Image 6:**

*The logo for the new complete Tebis CAD/CAM system 4.1*

(Image: Tebis AG)

**About Tebis**

Tebis is a global market and technology leader in the CAD/CAM and MES sector. Customers use Tebis to efficiently and reliably design, plan and manufacture models, molding dies and components to the highest quality. Teams of consulting and implementation specialists with practical experience develop strategies for efficient and reliable CAD/CAM processes, implement these in the customer infrastructure and ensure a viable technological and competitive advantage.

Tebis software has an intuitive user interface that guarantees a high level of quality and safety in manufacturing, even of highly complex parts. Thanks to Tebis service offerings, customers can easily introduce new technologies and fully leverage the power of the Tebis process solutions.

The company is headquartered in Martinsried near Munich, Germany, and has nine subsidiary offices around the world as well as distributors in eight other countries. 350 employees worldwide support Tebis customers, most of whom are in the automotive, aerospace and production machining sectors.

Automation has been a key factor in the Tebis formula for success for over 30 years. Tebis views itself as an innovator for customers on their path toward Industry 4.0.

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