

Version V4.0 R7 SP2 contains extensions and corrections for the following issues:

### **Machine technology**

- PP variables for machining times were not consistently connected in Tebis version V4.0 R7. The calculations for the old and new machining times were revised and connected. The new machining times are output when a virtual machine is used.

### **Geometry interfaces**

- The import of Parasolid Version 7.0 files is now supported. Corrections have also been implemented on import of surfaces or faces.
- Datasets from Catia V5-6 R2019 are also supported on import of Catia V5 data. Problems in reading features have also been corrected, and an error that could result in a system crash was corrected.
- Stability on importing step data has been further improved.

### **Automation**

- A problem with calculation times was corrected in function "MFeatR."

### **Laser cutting**

- For circular form elements, the starting point in the simulation now corresponds to the behavior of the real machine. The starting position can only be edited via angle phi in the "Path correction" dialog and no longer via the "Areas" dialog. In rare cases, circular form elements were traversed twice or without the output of cycles. This error has been corrected.
- Since Tebis version 4.0 R7, an additional NC point output in areas of element type "CONT." This was assigned value "CONTM" from the "laser.tec" technology file. This error has been corrected.

### **Milling**

- In rare cases, function "RPlan" generated the error message: "Incorrect vertical plunge movement detected." This problem has been corrected.
- Incorrect milling paths with part collisions could occur in functions "MSurf" and "RSurf" with "Z-constant" strategy in the "NC3ax" module. This error has been corrected.
- In rare cases, problems could occur with automatic plane identification in the "NC3Ax" module in the "RPlan" function. This problem has been corrected.
- Calculation performance losses occurred in comparison with Tebis Version V4.0 R6 in the "MSurf" and "RSurf" functions in the "NC3ax" module when using "Interactive tilt". This problem has been corrected.
- In rare cases, collisions with the cutter could occur when calculating toolpaths in function "RFill" in module "NC3Ax". This problem has been corrected.
- Incorrect milling paths could result in the transformation of NCJobs (especially on mirroring) in the "MSurf", "RSurf" and "MSlot" functions in the NC3ax module. This problem has been corrected.
- In rare cases, using the "Edge before" or "Edge after" options in the "MSurf" function in the "NC3Ax" module could result in defective connections as well as in incorrect machining directions. This problem has been corrected.

- In rare cases, the area calculation could be incorrectly interrupted in the "RSurf" function in the "NC3ax" module. This problem has been corrected.
- Plunge movements in the toolpath could cause part collisions to occur in the "MSurf" and "RSurf" functions in the "NC3ax" module. This problem has been corrected.
- The message "Completely reset job to data" appeared incorrectly when transforming NCJobs from the "MSlot" function in the "NC3ax" module. This problem has been corrected.

### **Job planning**

- In rare cases, NCJobs that had already been calculated were reset when an offscreen calculation of NCJobs was interrupted via the progress bar. After completion of the offscreen calculation, the error message "Offscreen calculation outdated" could appear even though the user had not modified the NCJob data in the meantime.
- After compressing a CAD file, incorrect entries could result in the "Output" parameter field for an NC program in the Job Manager. This error has been corrected.