GIBcam.Info

GIBcam v2022.B1190



The (presumably) last ServicePack in 2022 updates the GIBcam software with all changes and further developments that were continuously implemented in the published SPAs in October and November.

The ServicePack installation kit updates all system files in the GIBcam programme directory to the latest status but creates a backup copy of the directory contents beforehand. During installation, a software tool for uninstallation is stored in the specified programme directory, with the help of which the current ServicePack can be completely removed using the created backup copy. Access to the data and the directory structure of the GIBcam programme directory must be fully possible.

The ServicePack may only be installed and used after the following information and facts have been read. Should any questions or ambiguities arise, these must be clarified in advance.

- New functionality:
 - Information from GIBcam Feature is exported directly for data exchange with CAD components. Attributes and properties are used that make it possible to provide substantial information on the component or machining status of the technology feature for external systems.

In addition to the standard formats IGES and STEP, these extensions were integrated for data export in CATPART format and for UG/NX.





programmed features of the part (left) generated and converted data in CATIA/CATPART format (right)

This extension is optionally available for integration into existing GIBcam packages.

- For the engraving processing mode <CONTOUR>, a simple, offset division of the processing can be optionally carried out. This requires a distance >0.0 to be specified as an additional parameter.
- For the feature-based, cycle-oriented NC output (DRILLX-PP), various details have been completed in order to integrate special features and functionalities of further machine configurations.
- For the feature scan or feature match, extensions are effective for capturing and matching conical threads (see following note) as well as fits according to the table linked via colour code (FITTABLE).

Note: Restrictions apply to conical threads. Type '8' tables are to be used. For the core hole diameter only the data of the cylindrical core hole are used. For the depth of a tapered thread feature, empirical rules on minimum depth: minimum 3 x pitch as well as depth (for blind hole): Core hole depth - pitch.

- If the calculation of pocket, roughing or re-roughing paths is carried out with determination of fixed approach positions, these points are marked and additionally linked in the EL.
- In the tool parameter set, the additional option <lock plunge cuts> can be used. This equalises, among other things, the standard set Z-distance for approach movements (e.g. roughing modes with approach from outside).

• Important changes, notes and details:

- Problems with the functions for trimming, limiting or breaking up surfaces were detected and corrected. Likewise, corrections were made for the calculation of offset surfaces as well as for the calculation of surface states (actual state-> surfaces). There were also minor corrections and adjustments in element transformation and geometric unwinding.
- Accepted changes of tool data when calling up the tool lists in selection mode were not saved to the tool file in every case until now. This has been completed.
- Elements that were blocked in the project for background calculations are now completely reinitialised when the job list is cancelled via CMD:INIT or CMD:CLEAR. This eliminates the manual steps that were previously necessary.



- When calculating control paths for inspection or simulation paths, the envelope geometry for infeeds and swivel positions is now determined uniformly. The current component or blank geometry is evaluated. This step is omitted if no active geometry is available.
- Automatic correction for special conical rotation surfaces during STEP data import.
- In 3D surface data from PROE/CREO, surface boundary curves degenerated to a point were noticed. Until now, such definitions were categorically reported as errors. This has been changed for pragmatic considerations and a note with query appears:

viessage		
A	Attention! S contains in	urface boundary curv permissible element
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With <IGNORE> a workaround is activated. Based on the protocolled IC numbers of the surface(s), an evaluation can be carried out subsequently, if necessary!

- A problem with the data conversion of SO area objects from older GIBcam project data using GIBcam DATO was processed.
- For various special problems with strongly segmented surfaces or surfaces with chaotic topologies during data import or conversion of CATIA surface data, solutions were found and implemented (in GIBcam) together with development partners. Further adjustments will become effective with the next INTERFACE update.
- The function for teaching 5-axis approaches has been revised and updated in detail.
- The marked display of the active path segment in the path editor or in the graphic path analysis now includes the approach and lift-off movements again.
- If the layers automatically reserved during the feature scan remain unused or are not needed, these layers are released again at the end of the calculation. The TAP feature for fully matched threads is now displayed semi-transparently in FULL-SHADE graphic mode by default.
- In the calculation of blank geometries (e.g. outline blank), positions for approach movements from outside for blank roughing, roughing paths for inside pocket contours or re-roughing, problems from the community were analysed and fixed.

... and other details that were already included in the SPAs that have been made available in the meantime or that were discussed in the <u>info channel</u>

Due to a necessary update of developer tools for the GIBcam.X64 platform, the additional installation of system software may be necessary. These so-called redistributable packages (vc_redist.x64.exe as well as ww_icl_redist_intel64_2017.8.275.msi) are saved in the specified



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GIBcam directory during the installation of the SP - but are not automatically started or installed. This must be done manually afterwards.

This service pack ends the version cycle for GIBcam v2022. In January of next year, the version update to GIBcam v2023 will follow. Corresponding information and announcements will be made in good time. In the meantime, necessary changes, adaptations or licence updates will be distributed as SPA via the respective GIBcam.CLOUD directory. For users who have been using the simple software tool GIBcam-VIEW in a productive environment, there will be the possibility to perform a cross upgrade to GIBcam-CNC. This ensures that the previous functionality is retained to its full extent and at the same time a tool with a flexible scope of performance is available, which supports the division of labour processes in work preparation, NC programming and NC production to a significantly greater extent.

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[The availability of the individual functions depends on the range of functions of the GIBcam basic package and any additionally licensed components.]



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