# GIBcam.Info

**GIBcam v2022.B1188 | INTERFACE B1188i**


This ServicePack updates the GIBcam software with all changes and further developments implemented over the summer period. Some aspects were already included in the optional SPA's in July, August and September.

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**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.**

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Parallel to the update of the GIBcam software, a separate SP for the INTERFACE library is available for all users who have a licensed INTERFACE-CAD data interface. This package also contains the necessary updates of the annual licences (note: Update FlexLM-/FlexNET-Licence in the help/document).

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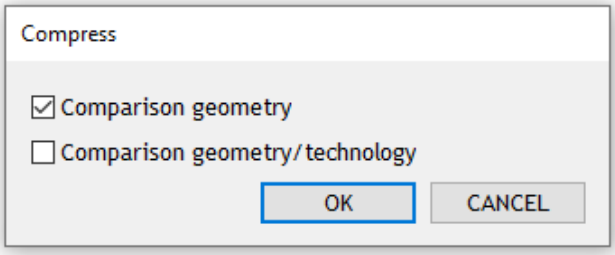
**Due to a necessary update of developer tools for the GIBcam.X64 platform, the additional installation of system software may be necessary. These so-called redistributable packages (vc_redist.x64.exe as well as ww_icl_redist_intel64_2017.8.275.msi) are saved in the specified GIBcam directory during the installation of the SP - but are not automatically started or installed. This must be done manually afterwards.**

- **New functionality:**

  - With the Compress function, either the current list or a multiple selection, e.g. of the filter settings, is analysed for possible duplicates in the tool dialogue. You can optionally specify whether only geometric or also technological contents of the tools or tool holders are to be analysed.



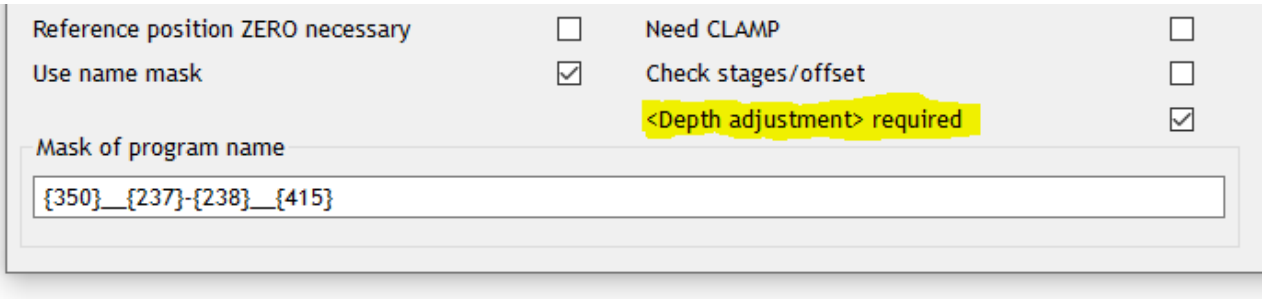

    Locked entries are not considered in this analysis.

  - For further, individual adaptation of the feature match of thread based on existing core hole drillings (without further evaluable additional information - e.g. typical for CAD data from CATIA), the structure of the usable data tables was extended by the optional parameter value #14 (preferred default value for the thread depth for feature match method core hole).

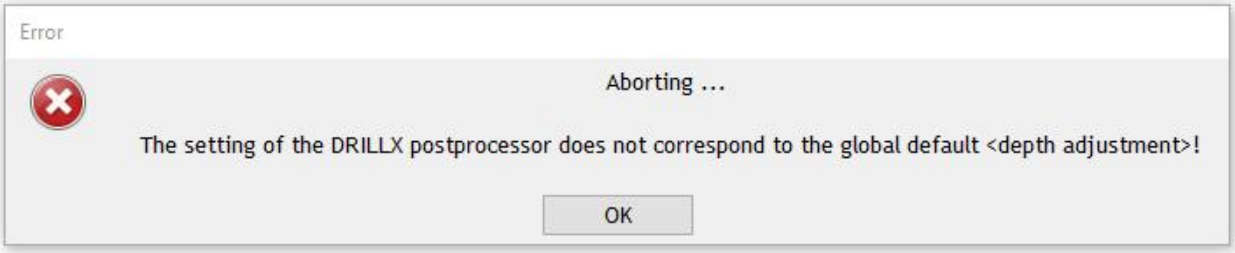
    **In principle, however, it must always be noted that when generating a TAP/thread feature using the feature match method, the thread depth is determined exclusively on the basis of geometric information about the core hole - i.e. it does not take any technological specifications into account. The thread depth must therefore be defined by the user. The optional parameters of the data table can provide simple support for this.**

    Addendum from SP B1184 on this topic: By default, when creating TAP/Thread features that are based on a HOLE feature as a core hole in the feature match, which has the end identifier CLEAR (usually through hole), the thread depth is initialised directly with the depth of the HOLE.

    For feature-based NC program output with a DRILLX postprocessor, an additional configuration parameter has been introduced to ensure the correct parameterisation of machining depth specifications:

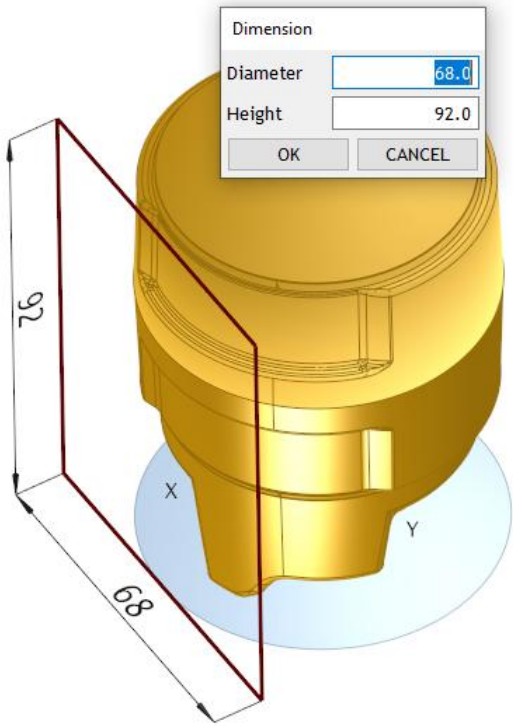



    This option ensures (by force) that the setting and configuration of the DRILLX postprocessor matches the programming method currently being used in GIBcam. If a discrepancy is detected, the NC programme generation is denied!



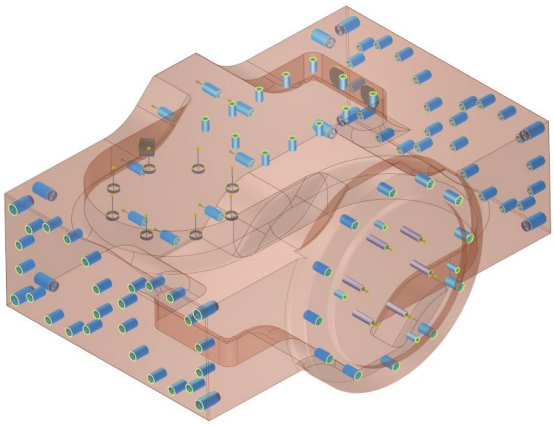

The optional placeholder parameters {885} and {886} were also defined for this topic.

- The creation of a cylindrical blank has been extended analogously to the flexible procedure for the prismatic blank (mode <Cuboid blank/dimension>).




- For splitting toolpaths using the <remove segments/*> modes, the eliminated path segments are retained as an alternative result when the copy mode is active.

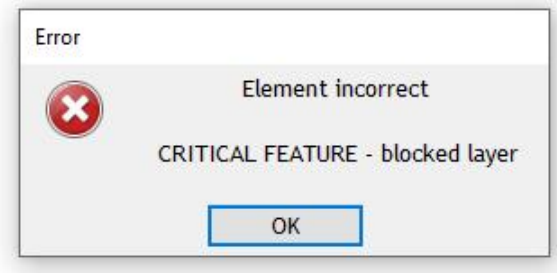
- The algorithm for calculating condition data (material removal) after multi-axis milling/drilling was extensively redesigned. Among other things, this was intended to avoid the gaps or faults that occurred during the processing of external removal data (after data import by means of STL). In the course of this, further optimisations and improvements were implemented. The procedure and algorithm for data reduction of SO elements calculated in this way was also redesigned, which may be relevant if calculated data is exported for further processing.



- The list of internally stored thread types was supplemented by the thread MJ (thread for aerospace according to DIN ISO 5855 or DIN-EN 2158 1979). For this purpose, the SP contains/installs supplementary table data.
- Numerous interaction sequences have been revised or updated - including inner radius analysis, planar area analysis, actual condition analysis and much more.
- The data import for 3D CAD data from the ACIS kernel has been extended to the binary data format (typical file extension *.SAB).
- Various modifications in the general user interface should lead to an improvement in the response behaviour when using the CANCEL button or (alternatively) the <ESC> key or in dynamic graphical processes (e.g. graphical toolpath analysis, toolpath editor, actual state analysis calculation in thread mode, etc.).

- **Important changes, notes and details:**
  - Calculation results of the actual state analysis are entered into existing, non-locked EL groups LIST:STOCK and RESULT:STOCK by specifying the grid width used - if these groups do not yet exist in the EL, they are created automatically - prerequisite <automatic processes> is activated!
  - Addition when creating a PO: if all feature elements that are to be combined into a PO have the identical tool assigned to them - then this tool is also (compulsorily) assigned to the PO (even if different depths or diameters are allowed).
  - When displaying information or calculating analysis data for an SO element (typically after import from STL file), the function could not be terminated via the dialogue window. This problem has been solved.
  - For the handling of outsourced layers (-> EXCLUDE data), some process details related to multiple re-import, unmarked layers and the behaviour during drag&drop have been changed.
  - In tool and machine simulation, animated markers are only displayed if the graphics option <view animation> is active.
  - A problem with the extraction of bore geometry with subsequent automatic sealing was investigated and eliminated.
  - A problem during data import (IGES or STEP data) with deactivated surface repair, which led to undesired effects with individual surface or curve elements, has been solved.

- A problem case during STEP data import: surface element with extreme bordering (description included over 200,000 B-spline points) - was analysed and an optimised process developed and implemented.
- A problem case with subsequent path rounding due to minimal gaps in the path caused by offsets in vertical or undercut areas was investigated and processed.
- The <contour editor> function provides an (alternative) variant for contour design by means of extended B-spline construction.
- The system-internal default for the text mask for tool data has been changed.
- A component geometry defined as SET is taken into account when positioning reference points, fixed points and when determining dimensions of the geometry in the automatic sorting functions.
- Assigned tools in the tool list can now also be locked. The active link is then immediately removed as a consequence!
- When exporting tool holder data from the tool list (in HLD or HLX format), the file name per holder is automatically generated from <name>.<shortname>__<id>.<extension> (if n>1). The change was necessary because the previous, exclusive use of <shortname> was not sufficient for differentiation.
- The NC programme generation is stopped with an error message if there are active elements on the layer for critical elements (-> FEATUE SCAN .. CHECK).




This special procedure is based on our serious instructions regarding process safety (see news by mail or info channel from May/June 2022).

… and other details that were already included in the SPAs that have been made available in the meantime or that were discussed in the info channel

**Note on the new Windows 11:**

At present, the current release of GIBcam (affects all package and platform variants) **does not support** Microsoft Windows 11 - runnability is not guaranteed! The far-reaching system requirements for Windows 11 are also not yet supported in the GIBcam platforms.

GIBcam v2022.B1188-1640 … [01-10-2022]

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