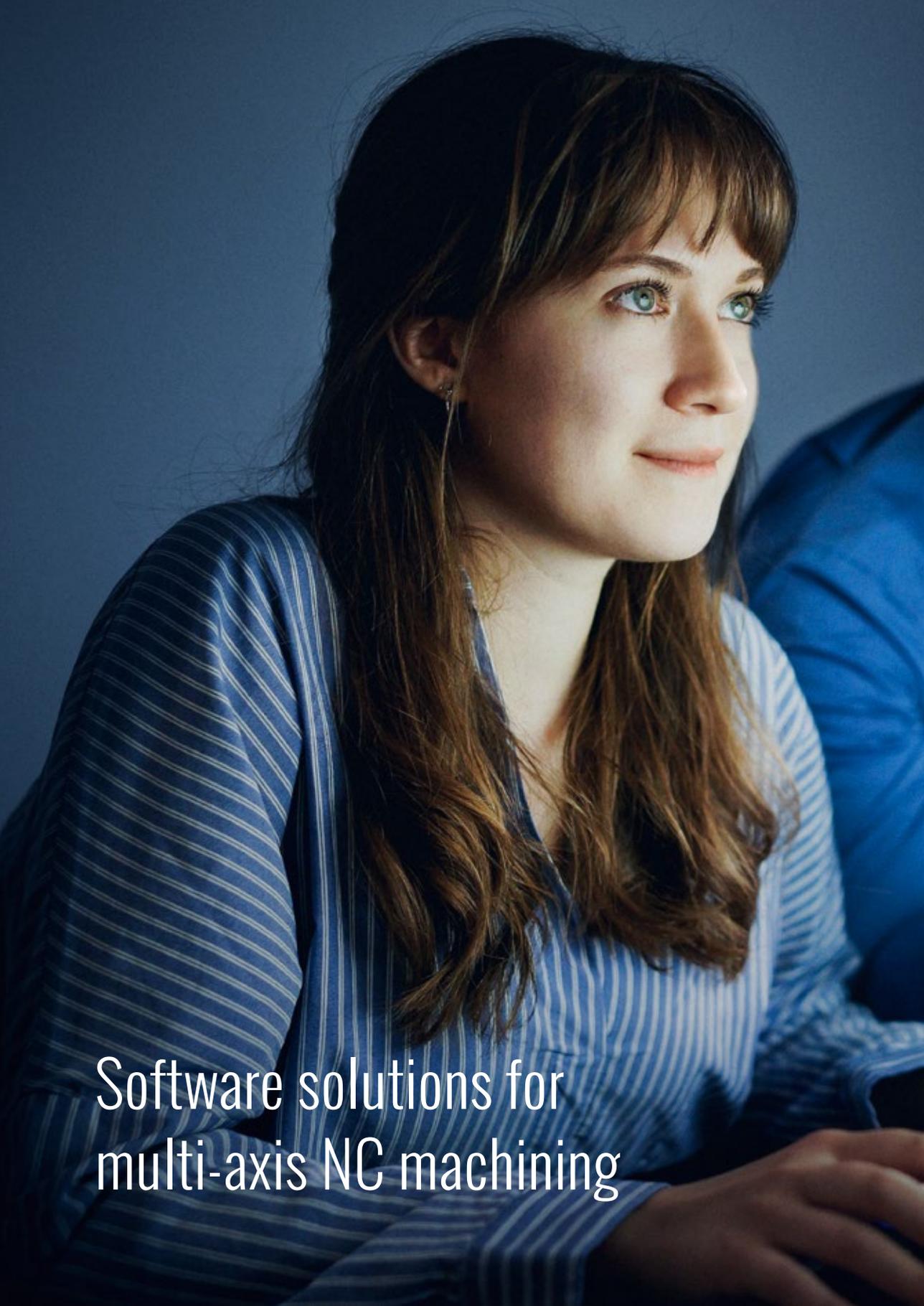


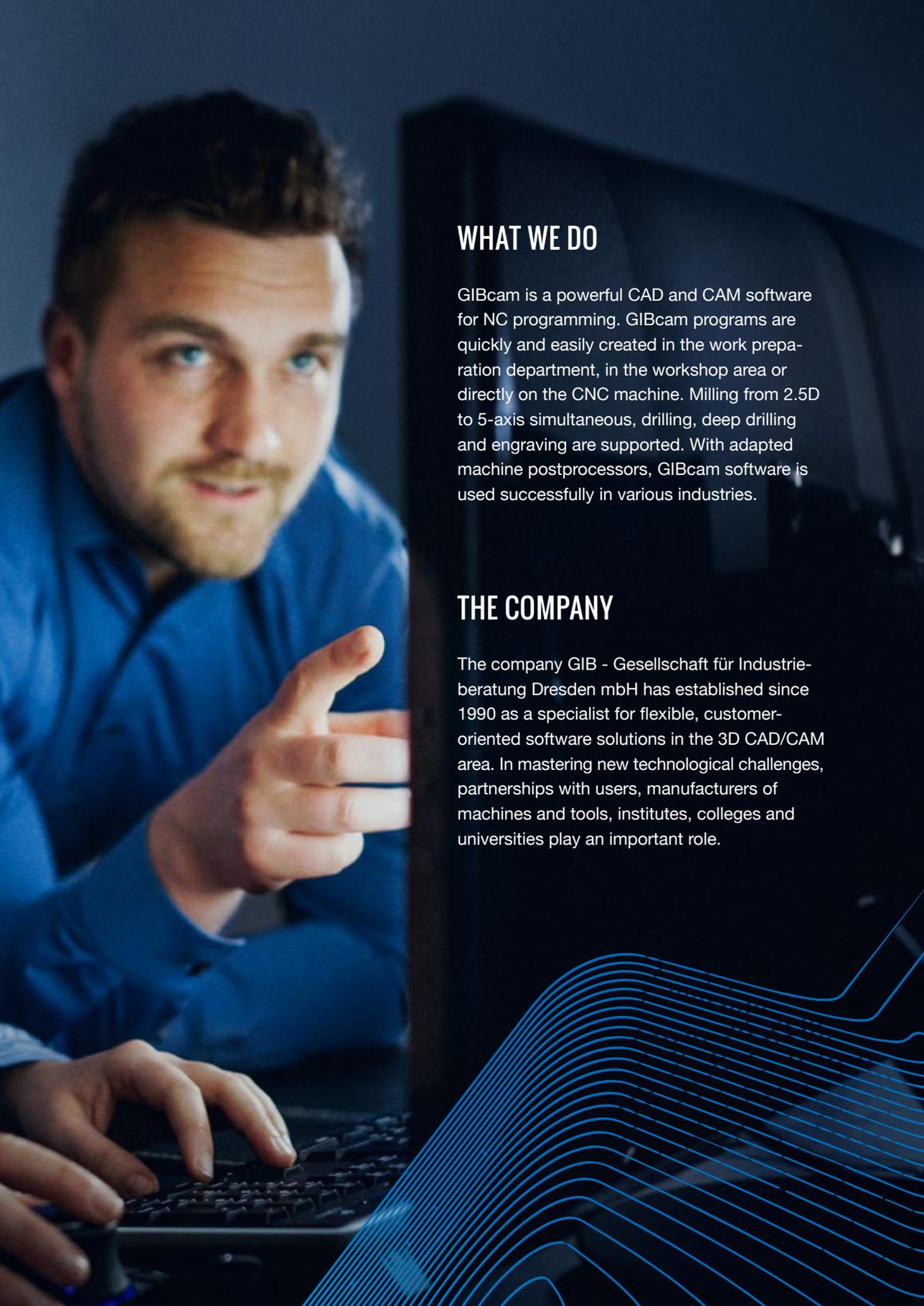


# PRECISION MEETS FLEXIBILITY

Gibcam software technology  
milling, drilling & deep drilling



Software solutions for  
multi-axis NC machining



## WHAT WE DO

GIBcam is a powerful CAD and CAM software for NC programming. GIBcam programs are quickly and easily created in the work preparation department, in the workshop area or directly on the CNC machine. Milling from 2.5D to 5-axis simultaneous, drilling, deep drilling and engraving are supported. With adapted machine postprocessors, GIBcam software is used successfully in various industries.

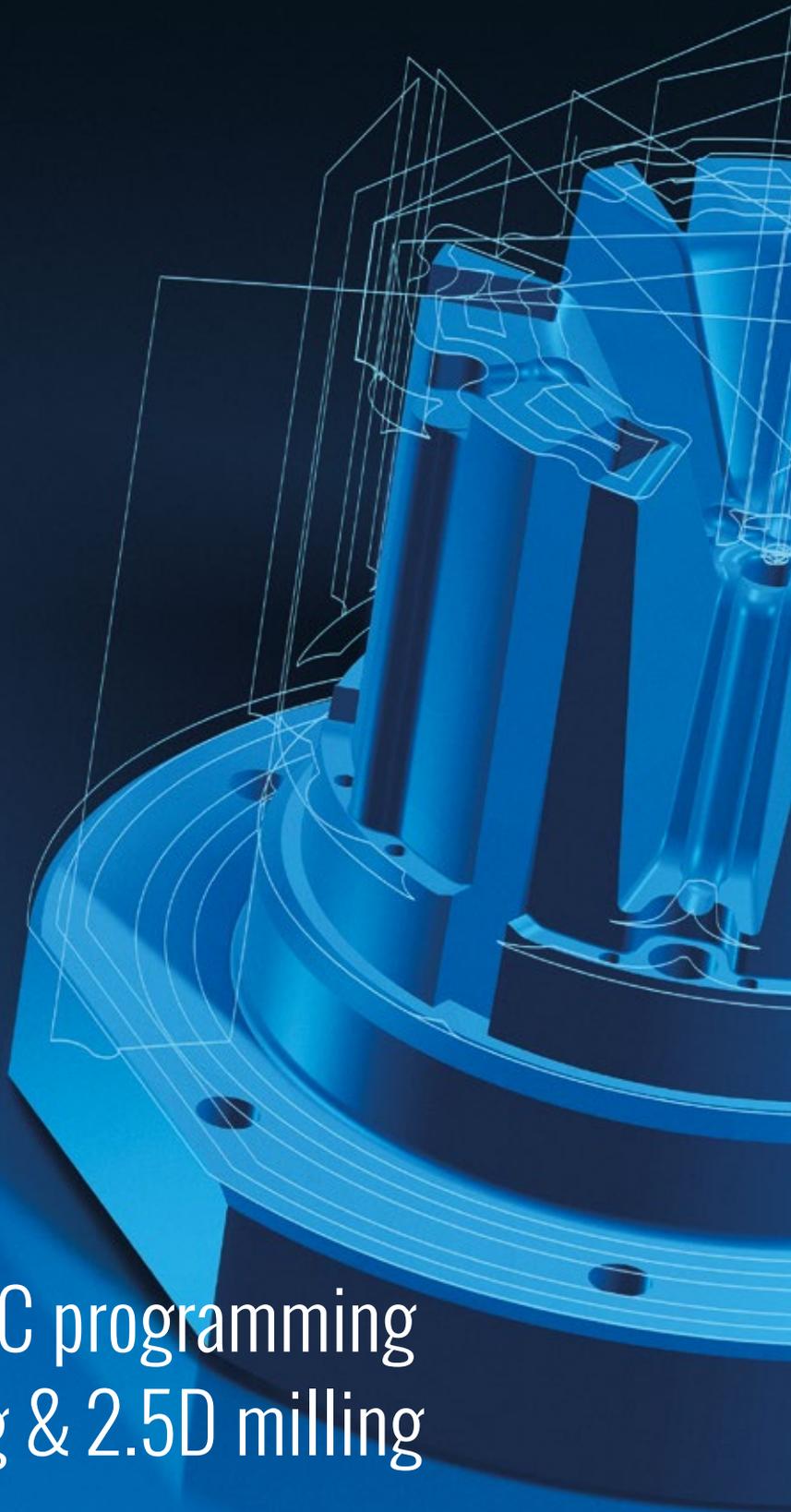
## THE COMPANY

The company GIB - Gesellschaft für Industrieberatung Dresden mbH has established since 1990 as a specialist for flexible, customer-oriented software solutions in the 3D CAD/CAM area. In mastering new technological challenges, partnerships with users, manufacturers of machines and tools, institutes, colleges and universities play an important role.

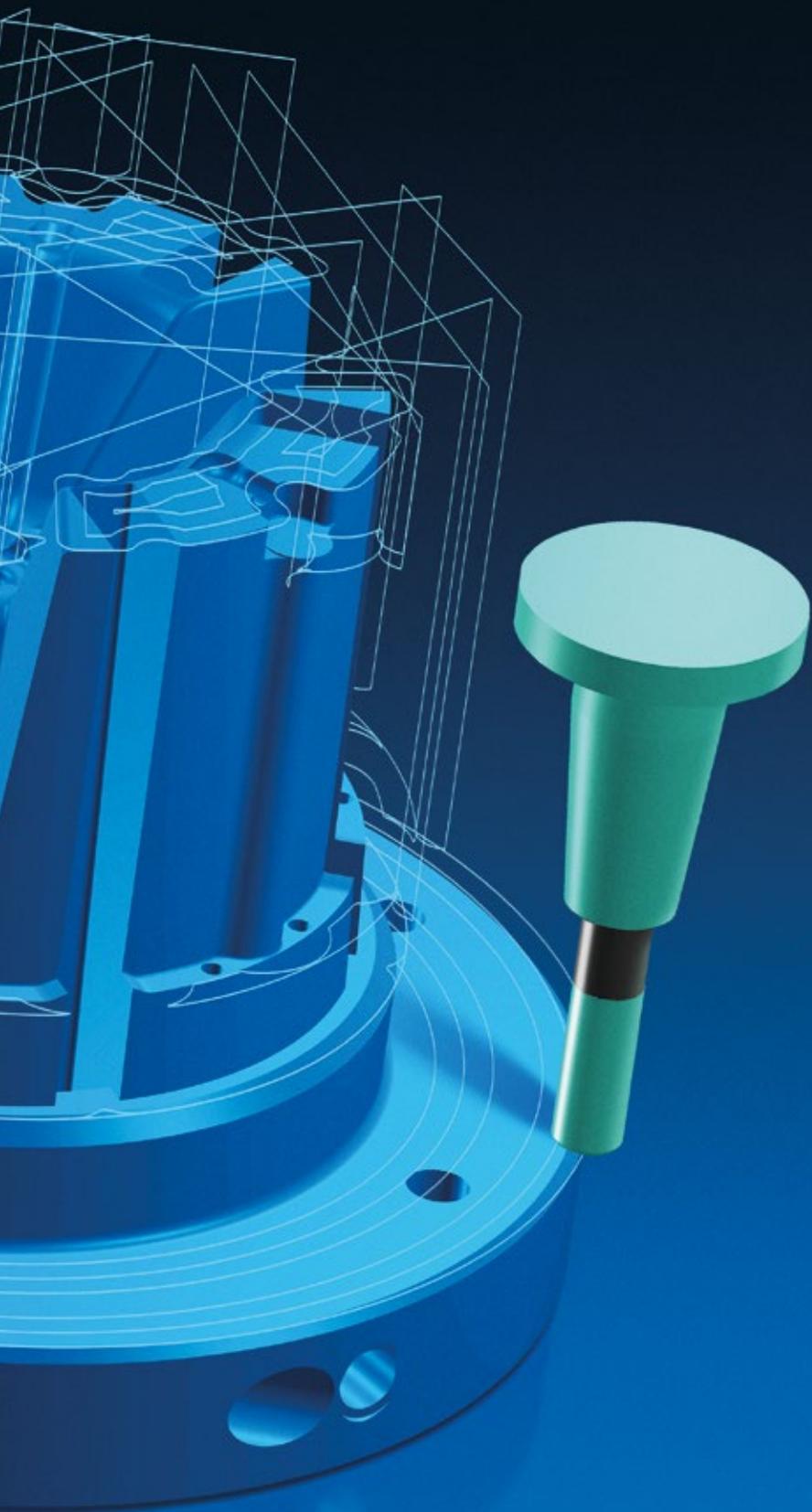


**GIBcam**

25AX



Flexible NC programming  
for drilling & 2.5D milling



# GIBcam

25AX

## UTILISE POTENTIAL

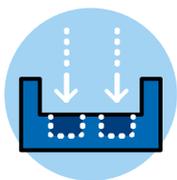
Manual programming of typical 2.5D parts is mostly still performed immediately at the control. For parts subjected to multi-sided manufacturing in one setup, the 3D-CAM production planning department is generally in charge. With GIBcam-25AX, the entire machining process, including a wide range of milling and drilling operations, can be programmed with only a few clicks.

## SIMPLE PROGRAMMING ROUTINES

GIBcam-25AX is an efficient tool suitable for all 2.5D tasks, pockets with free-form contours, multi-side machining and machining with inclined axes. GIBcam-25AX saves programming time at the control, resulting in better machine utilization. Another advantage is that the workload of the production planning is reduced.

## RELIABLE PROCEDURES

From reading in the data to the output of the NC-program - GIBcam-25AX is perfectly aligned with proven technologies for 2.5D milling and drilling. Process-reliable programming results in optimised manufacturing solutions in die- and mould-making, the machine tool industry and many other businesses.



pocket detection and interactive modification with POCKET editor



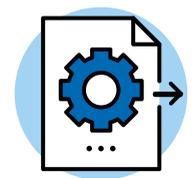
drilling and deep drilling with automated tool length gradation



insertion of tool direction changes for multi-sided machining



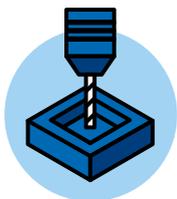
comparison of CAD data states with detection of alterations



data import and export of tools, tool holders and clamping elements



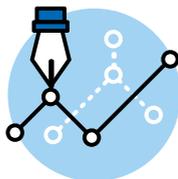
collision check of tool, tool holder and machine spindle



multi-axis material removal analysis and simulation for milling, drilling and deep drilling



graphical machine room simulation with integrated machine



customizable postprocessors for pocket machining, milling, drilling, deep drilling

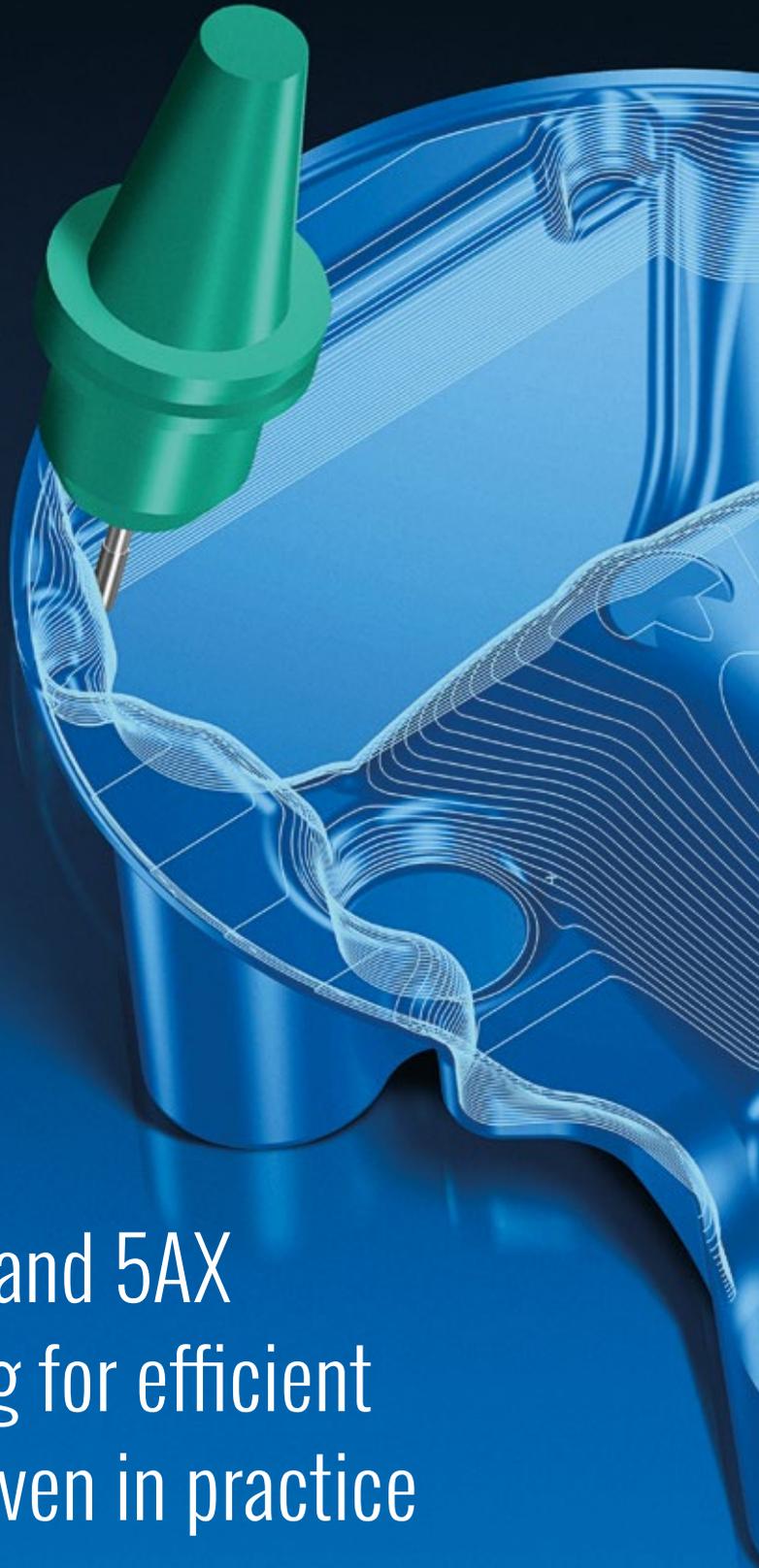
GIBcam-25AX is used to program simple 2.5D form elements, such as pockets, boreholes, spot faces, chamfers, channels, grooves and mould inserts, reliably and cost-effectively.

For this purpose, manufacturing features are used which are transferred from the CAD data, generated automatically or described newly. Machining operations for milling, drilling or deep drilling are defined on the basis of these features. Programming is supplemented by the automated assignment of suitable tool

holders and tools. Furthermore, first-class processor technologies with flexibly adaptable post-processors save time and money. The resulting increase in user know-how directly improves the quality of NC programs. Existing machining cycles of the machine as well as user-specific cycles are completely supported.

GIBcam

MILL



3AX, 3+2AX and 5AX  
programming for efficient  
milling - proven in practice



# GIBcam

MILL

## RELY ON OUR EXPERIENCE

Users have been trusted in GIBcam Software for almost 30 years. Having begun with the first software applications in die- and mould-making, GIBcam solutions are now in widespread use in a wide range of applications, in which machine tools are run via NC programs in a continuous path controlled manner. It does not matter whether these are conventional design types, articulated joint robots or parallel kinematic mechanisms.

## MULTI-AXIS PROGRAMMING

GIBcam software provides efficient strategies for roughing, reroughing, finishing and machining resting material for the productive manufacturing of simple and complex components. These functionalities are complemented by practical CAD components for preparing the programming.

## EFFICIENT MACHINING

GIBcam provides optimised machining solutions from reading in the data to the output of the NC programs by customised post-processors. Tools for milling and drilling, as well as special tools including their holders are supported and connected with cutting values.



component data analysis with automatic surface repair



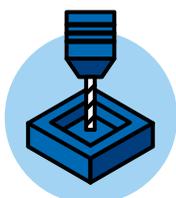
variable, color-coded component allowance for complex milling tasks



optimization of feeding movements and milling path modification with a variety of utilities



support of special tools and contour milling cutters



milling strategies for roughing, reroughing, finishing and resting material



finishing with automatic tool length optimization



free adaptable 3+2 axis tool positions for multisided machining



automatic recognition and machining of planar areas with planar milling strategies



milling strategies for complex 3-axis and 5-axis undercut manufacturing

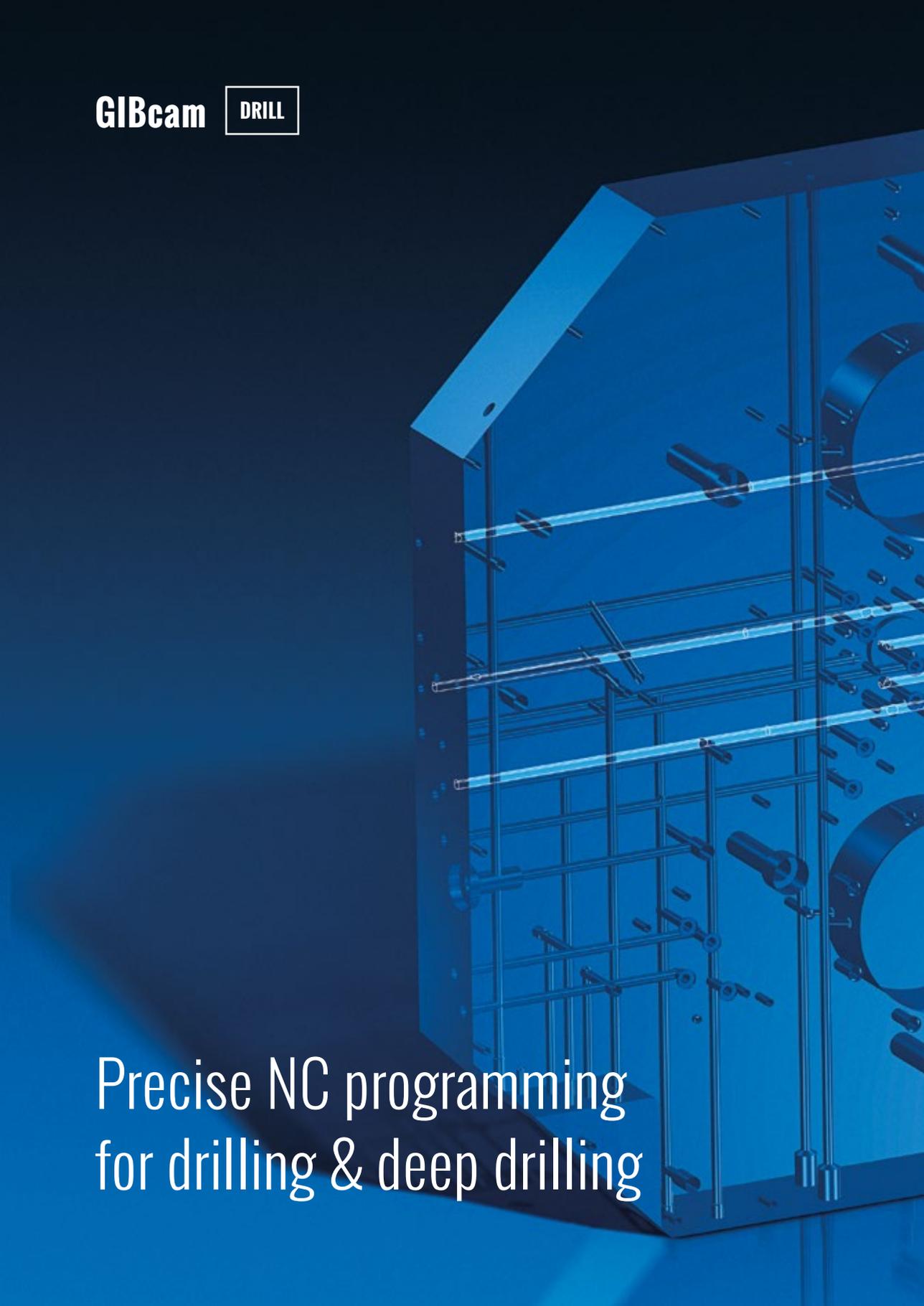
GIBcam software is configured individually and thus exactly tailored to your requirements. Powerful interfaces are available for data exchange with CAD systems.

GIBcam makes available a complete toolkit with variable strategies in order to machine complex parts. It is possible to find your individual sequence of technologies, from roughing to finishing – even for high-speed cutting. Complex manufacturing

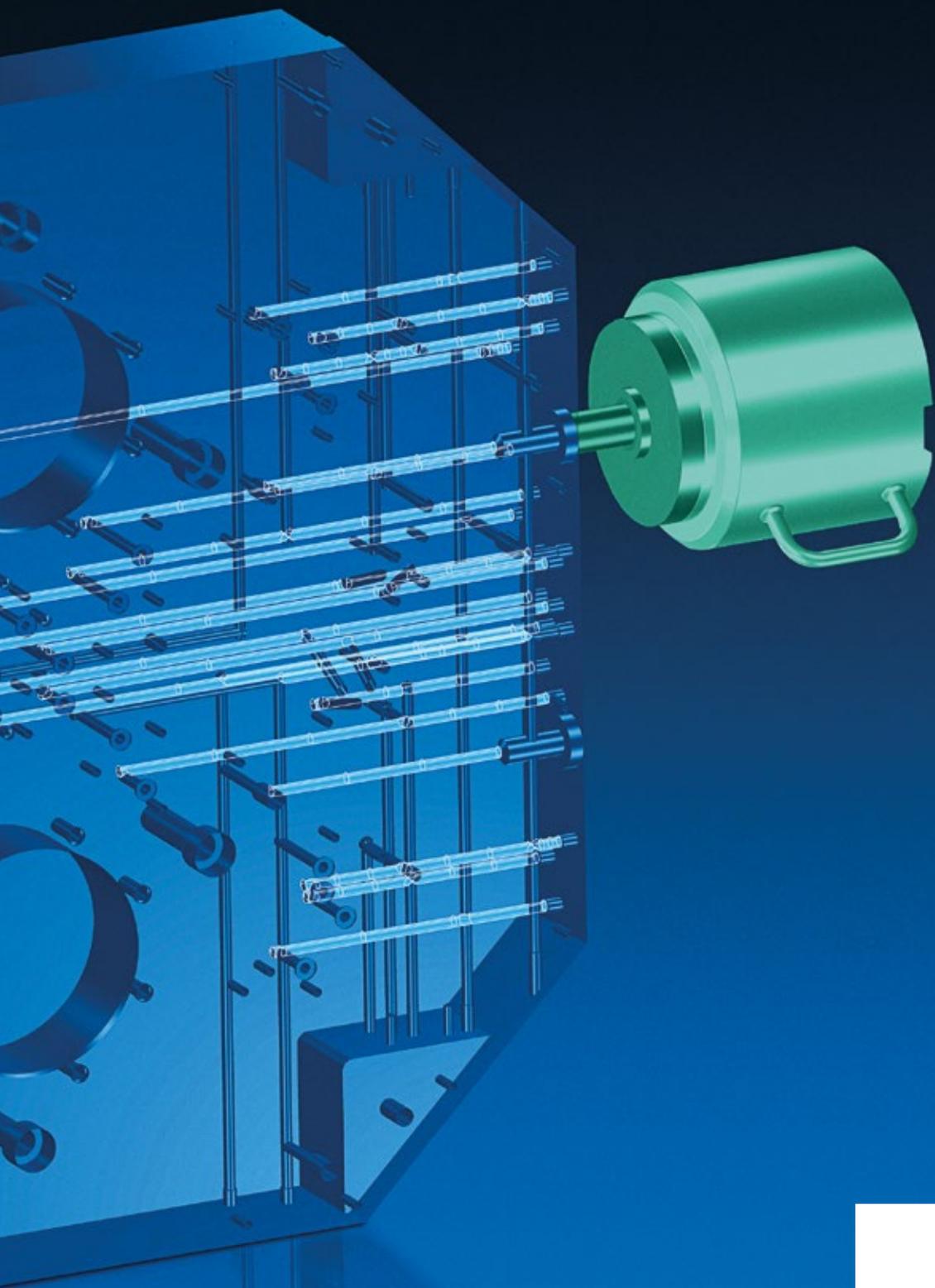
sequences are saved in a transparent manner in technological objects. Graphic simulation of machining and targeted collision check can be supplemented by machine simulation. Program and project documentation are available automatically.

GIBcam

DRILL



Precise NC programming  
for drilling & deep drilling





# GIBcam

## DRILL

## PROCESS OPTIMIZING

It doesn't matter whether it's the step from conventional drilling to CAM-based processes or the optimization of a CAD/CAM-supported process chain for deep drilling. GIBcam-DRILL offers a large cost saving potential in programming and manufacturing.

## EFFORT MINIMIZING

GIBcam-DRILL integrates seamlessly into production, work preparation and order acquisition. Structured data transfer, detailed information for fast quotations and technologically adapted programming simplify the work. User experience speaks for itself - a reduction of the time required for calculation and programming by 75% and more is possible.

## SAFE PROGRAMMING

GIBcam-DRILL is the key to highly efficient and reliable programming – applicable to all kinds of boreholes, fits and threads, for drilling and deep drilling, with straight and tilted holes, for components with simple and complex geometry – even for machining several sides in same clamping position.



3D CAD data import with surface inspection and repair in various data formats



automatic feature scan and defined feature assignment from 3D CAD data



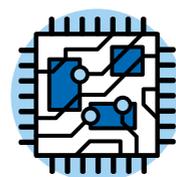
combination of technology features with individual company know-how



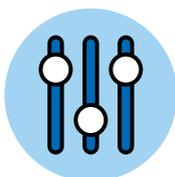
analysis of basic data for calculation and production planning



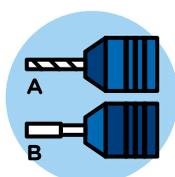
detection and handling of drilling crossings for deep drilling



technology-supported creation and adaptation of manufacturing features



production-supported adaptation and management of technology parameters



tool assignment and technological tool management



adaptable, cycle-oriented postprocessors for drilling and deep drilling

GIBcam-DRILL simplifies drilling programming with integrated automatism and selections such as classification of drill holes and detection of drill crossings, deviations and cooling circuits.

The high-performance feature recognition, in combination with diameter tables, colour tables and special boring patterns, is a tool that offers fast clarification of the manufacturing task. It takes only a few clicks to program pilot bores, spot-faces and centre bores. An overview of design changes related to states

of work and the technological sequence provides transparency. An optimized calculation of the tool lengths and tool management with technological data provide a high level of process reliability. NC programs are output via flexibly adaptable post-processors, and the machining cycles run on the machine tools are fully supported.



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