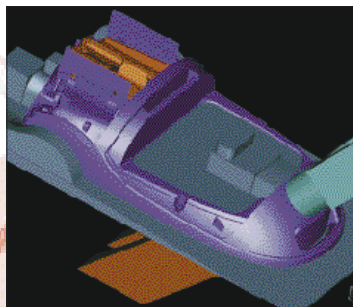
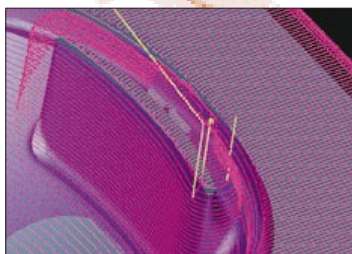




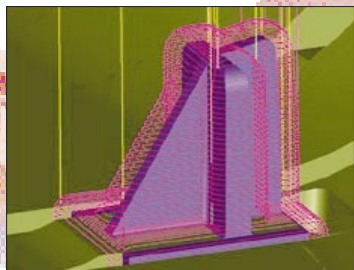
▶ CLEAN SOLUTION: SIMULTANEOUS PROCESSES WITH TEBIS INTEGRATED CAD/CAM SYSTEMS.



ALL ADJACENT SURFACES ARE REDESIGNED AFTER THE PARTING LINE HAS BEEN DEFINED.



NC FINISH PROGRAM FOR THE CAVITY SIDE



NC PROGRAM FOR CUTTING A GRAPHITE ELECTRODE FOR THE CORE SIDE OF THE MOLD.

Before product launch of a new household appliance, every day saved during product development counts. That's why you have to be able to depend on two things: extensive know-how, like that provided by Beckert Formen und Modelle GmbH in Bad Friedrichshall, Germany, and efficient CAD/CAM technology, like that supplied by Tebis, to reliably apply this expertise.

The professionals at Beckert used **TEBIS CAD SOFTWARE** to layout the supplied CAD product data to design a mold for a new vacuum cleaner from Bosch und Siemens Hausgeräte GmbH, one of Germany's leading appliance manufacturers. The system provided all the functions needed to redesign the surfaces in compliance with injection-molding specifications. Important production-related technological aspects like development of parting surfaces, 3D slide design, lifter pockets, ribbing, and mold cooling were easily integrated using Tebis CAD functions.

To save time, all the NC programs required for the cavity side were calculated and manufacturing of the mold parts was begun while design of the core side and diverse inserts was being carried out. In other words, simultaneous engineering at the highest level that calls for total integration of CAD and CAM technologies. All required NC programs, from wire-EDM to roughing, finishing, and high-speed cutting were calculated using **TEBIS CAM SOFTWARE**. The result was the fastest possible production of steel cores and cavities and graphite and copper electrodes. Once again, Beckert GmbH proved its manufacturing advantage as a tier-one supplier for Bosch und Siemens Hausgeräte GmbH.

For more information about Tebis CAD/CAM and our range of products and services call (248) 524-0430, fax (248) 524-0434, or visit our web site at www.tebis.com



THE CAD/CAM EXPERTS.

TEBIS POSTPROCESSORS

"TEBIS DIRECT POSTPROCESSORS ARE THE MOST VERSATILE TOOLS ON THE MARKET."

Tebis is known worldwide for its excellence in 3-5 axis NC-programming. Not only our CAM modules for roughing, semi-finishing and finishing, as well as our modules for re-machining reflect the current level for state-of-the-art NC-programming, but also our postprocessors deliver only the best available features.

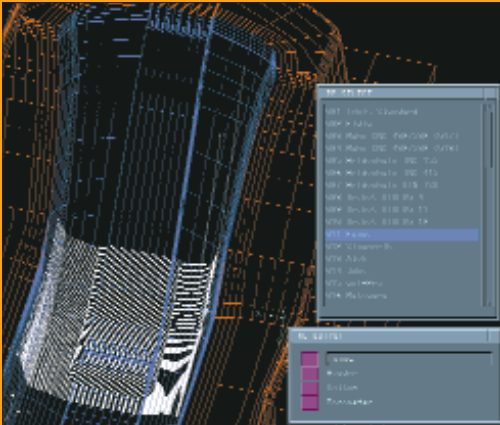
All formats are programmable and can be **fully customized** to your needs. Where permitted, our post-processors supply extensive header information to help you document and manage all calculated cutter path information. Header information can be printed at the beginning of each NC-program or into a separate text file that travels with your NC-programs to its final filing destination. **User defined variables** and even **IF...THEN...loops** can be utilized to achieve your desired output formats.

When calculating your NC-programs, Tebis already knows all kinematics features of your machine tool due to our unique postprocessor setup. Files describing your machine tools head or heads are not only utilized within our simulation tools, but also by our postprocessors when it comes to output the right angle values while doing **5-side milling** with indexed tools.

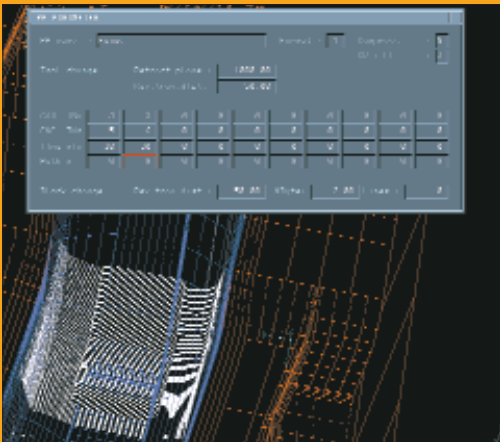
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N0002 (header text)
N0003 (BALL-CUTTER D=50.00 R=0.00)
N0004 (WALL THICKNESS=0.00 STOCK
ALLOWANCE=0.00 STEP=2.00 ZIGZAG CUT@TIP)
N0005 (TOOL#003 M06 FEED=2000 SPEED=5000)
N0006
(*****)
N0007 Z+0075.000 G00
N0008 M5
N0009 M87 M89 B+0030.000 C+0000.000 G00
N0010 M86 M88
N0011 M03
N0012 X-0002.354 Y-0065.222 Z+0075.000 G00
N0013 X-0002.354 Y-0065.222 Z+0075.000 G00
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N0015 X-0002.354 Y-0065.222 Z+0002.064 G01
N0016 X-0002.055 Y-0065.222 Z+0000.004
N0017 X-0001.906 Y-0065.222 Z-0001.459
N0018 X-0001.831 Y-0065.222 Z-0002.495

.

N3190 X-0015.428 Y+0088.778 Z-0001.457
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N3192 X-0015.577 Y+0088.778 Z-0005.000
N3193 X-0015.577 Y+0088.778 Z+0075.000 G00
N3194 M5
N3195 M87 M89 B+0000.000 C+0000.000 G00
N3196 M86 M88
N3197 (bottom text)
```



You can choose from a large variety of pre-defined formats or you can program and edit to your own individual requirements.



High-end functionality for large mold and die manufacturing supports tool changers, tool life (minutes or path length) and built-in blocking routines for particular large programs (splits by Mbytes or line numbers and adds approach and retract movements).

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THE CAD/CAM EXPERTS.

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