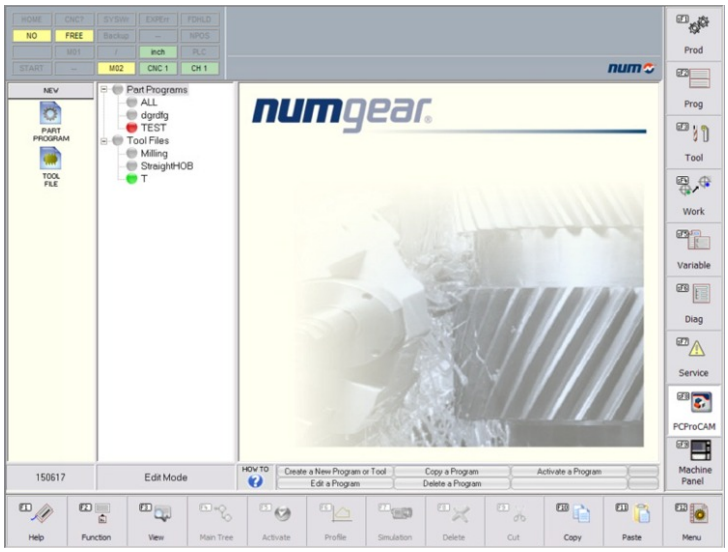
Complete Solutions for Gear Manufacturing
For New or Retrofit Applications

num®
CNC HighEnd Applications

NUMgear, Automation Solution for Gear Manufacturing

Configured with a state-of-the-art NUM system and user-friendly software, NUMgear is particularly well suited to address all aspects of the gear manufacturing process. It offers a complete "off-the-shelf solutions" with a user-friendly interactive conversational-graphical interface, which allows the user to operate the machine without prior knowledge of ISO code programming. In short, not only will the NUMgear system save years of development time, it will also significantly reduce the operator learning curve.

The NUM CNC system is perfectly suited for producing precision industrial gears requiring both dimensional accuracy and high-quality surface finish.



NUM provides world class range of products and services, including:

- Complete Range of CNCs
- Servo/Spindle Motors and Drives
- Custom Application Software
- Technical Support and Spare Parts
- Product Training
- Field Service

PCProCAM : User Friendly Interface

The Windows-based process is extremely user-friendly. Entry screens provide the machine operator with a comprehensive graphical programming approach that depicts the tool, the gear and associated setup data in a clear and concise manner. The operator does not have to use ISO programming; he or she simply fills in the data fields presented by the program. After completion of the data entry session, the program is automatically generated, stored, and it is ready for execution. On-line help files and step-by-step video tutorials are included for ease of operation.

Flexibility……. for a Range of Gear Manufacturing Machines

NUMgear includes packages for gear hobbing, shaping and grinding machines (both form wheel or threaded wheel). Cycles and pages can be customized by the OEM or by the NUM Engineering Team, if required.

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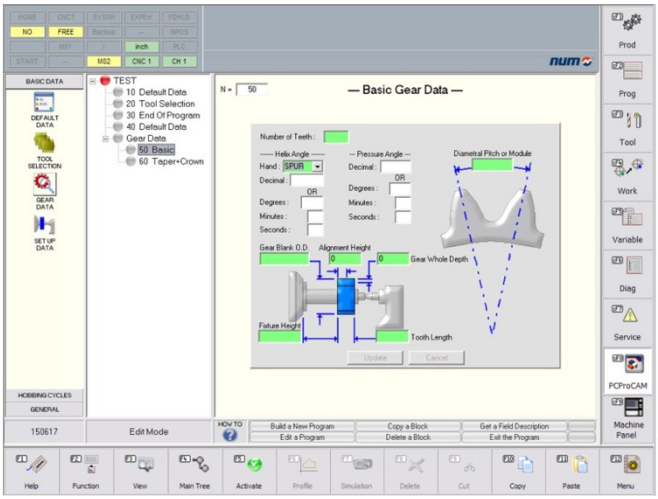
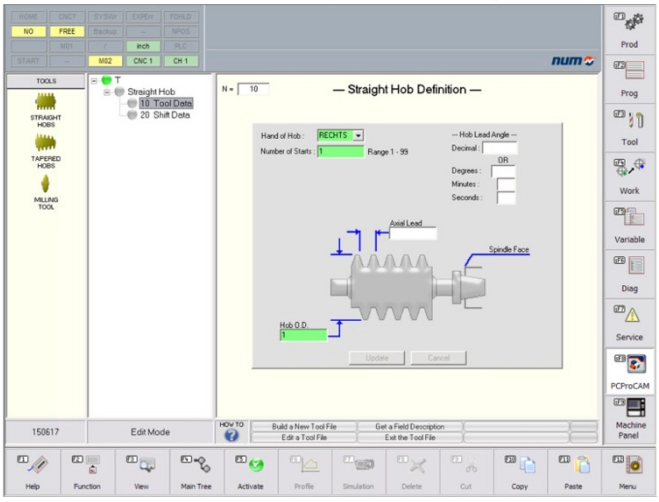
numgear®

Solutions for Gear Manufacturing	
Simple Electronic Gear Box (S.E.G.B.)	●
High Speed Control Link to Drive WorkTable (C) from Tool or Axial (Z) Input. (Three Axis Electronic Gear Box)	
Full Electronic Gear Box (F.E.G.B.)	●
High Speed Control Link to Drive WorkTable (C) from Tool, Axial (Z) or Tangential (Y) Input. (Four Axis Electronic Gear Box)	
Automatic Gear Alignment	❍
Provides the Ability to Rapidly Align the Hob or Grinding Wheel (tool) to a Gear (or work piece) Which Already has Teeth.	
Operator Prompted Teach Routine to Find First Gear	
High Speed Interface to Tooth Edge Sensor to Store Gear Image	
PCProCAM for Gear Hobbing	❍
User Friendly Windows Based Interface.	
Library of Tools (Straight Hob, Tapered Hob, or Milling Cutter)	
Automatic Hob Shift Management	
Helical Gears, Spur Gears or Worm Gears	
Hobbing Cluster Gears via an Unlimited number of Sequential Machining Cycles. (Any Combination)	
Vertical or Horizontal Machine Configuration	
Tooth Modifications (Crown or Taper)	
Tooth Alignment to Another Gear on Same Shaft	
Radial Hobbing Cycle (Standard or Single Index)	
Radial Axial Hobbing Cycle (up to 4 cuts)	
Tangential or Diagonal Hobbing Cycle	
Integrated Context Sensitive Help File	
Machine Functions: Manual or Automatic Part Loading	
Machine Functions: Manual or Automatic Part Clamping	
Machine Functions: Manual or Automatic Tailstock	
Machine Functions: Manual or Automatic Coolant	

● Standard ❍ Optional





NUM systems and solutions are used worldwide. Our global network of sales and service locations guarantees professional service from the beginning to the end of a project and during the complete life cycle of the machine.

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