



**The *most* complete gear hobbing control ever, for new or retrofit machines.**

[www.num.com](http://www.num.com)

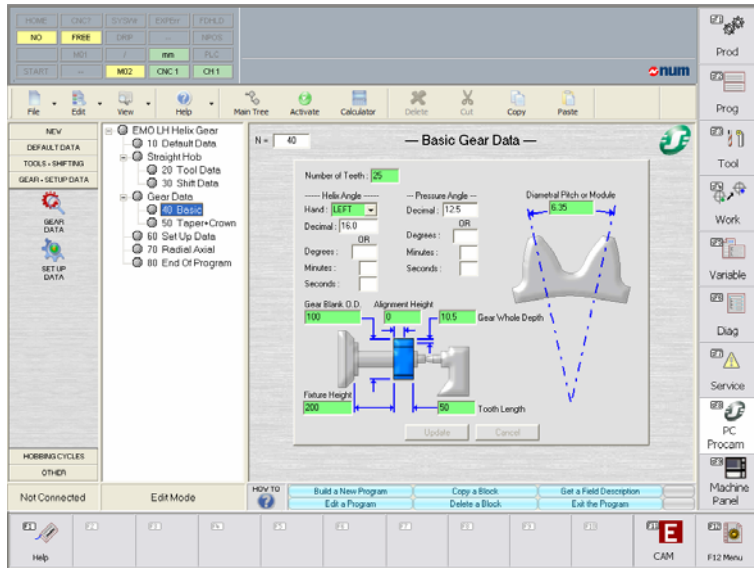


Configured with a very effective set of hardware and software, Num's power CNC system is particularly well suited to address all aspects of the gear manufacturing process. This is a complete off the shelf user-friendly interactive conversational/graphical interface, which allows the user to operate the machine without prior knowledge of ISO code programming. In short, not only will the NUM gear system save years of development time, it will also significantly reduce the operator learning curve.

The Num Power CNC system is perfectly suited for producing precision industrial gears requiring both dimensional accuracy and high-quality surface finish. NUM has world class range of products and services, including:

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

# Complete Solutions: NUM Power for Gear Hobbing



## PCProCAM : User Friendly Interface

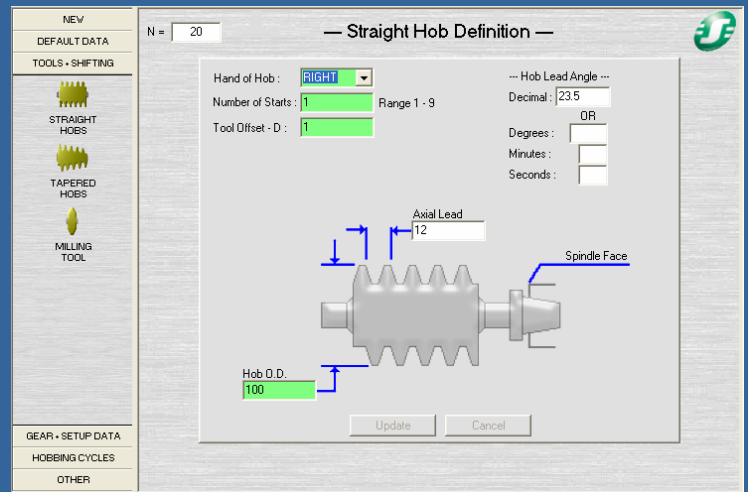
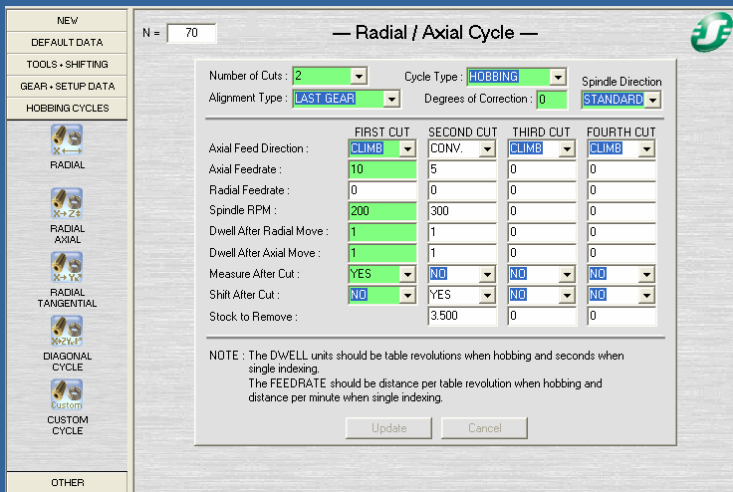
The Windows-based process is extremely user-friendly. Entry screens provide the machine operator with a comprehensive graphical programming approach that depicts the tool, the resultant gear, and associated setup data in a clear and concise manner. The operator does not have to use ISO programming; he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

## Flexibility..... for a Range of Gear Manufacturing Machines

The NUM gear package allows for a full gear hobbing machines, gear shaper machines and gear grinding machines (both form wheel or threaded wheel). Cycles and pages can be customized by the OEM or via the assistance of the NUM Engineering Team.

NUM Power Solutions for Gear Manufacturing	
<b>Simple Electronic Gear Box (S.E.G.B.)</b>	●
High Speed Control Link to Drive WorkTable (C) from Tool or Axial (Z) Input. (Three Axis Electronic Gear Box)	-
<b>Full Electronic Gear Box (F.E.G.B.)</b>	○
High Speed Control Link to Drive WorkTable (C) from Tool, Axial (Z) or Tangential (Y) Input. (Four Axis Electronic Gear Box)	-
<b>Automatic Gear Alignment</b>	○
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	-
<b>PCProCAM for Gear Hobbing – Cycle Programming Interface</b>	○
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	-

● Available ○ Unavailable





- ❑ NUM's PCProCAM is an extremely user-friendly part programming interface.
- ❑ The operator does not have to know or use ISO programming.
- ❑ Programming data is entered into fields that are presented in a clear and concise manner.
- ❑ After data is entered, the part program is automatically generated, stored and ready for execution.
- ❑ Graphics, video tutorials, and dynamic help further facilitate the process.

Click on the link below to download a video demo.

DOWNLOAD GEAR  
HOBBING DEMO



