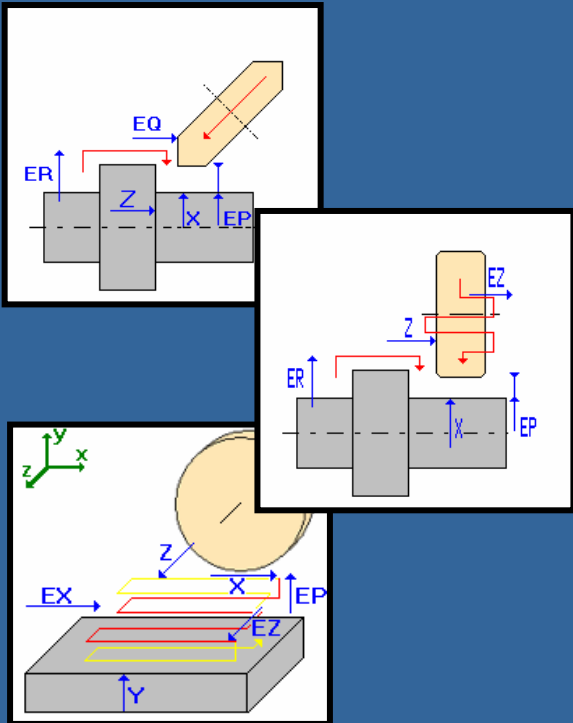




**The *most* complete grinding control ever, for new or retrofit machines.**

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



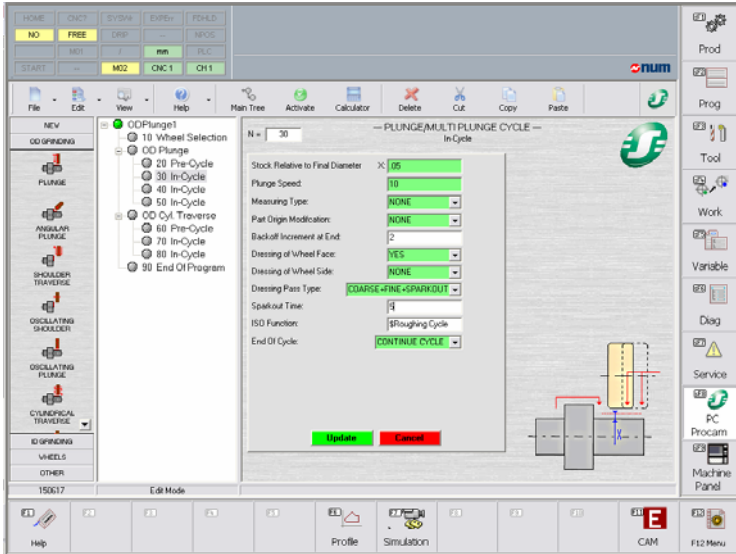
Configured with a very effective set of hardware and software, Num's Power CNC system is particularly well suited to address all aspects of the cylindrical and surface grinding process. This is a complete "off the shelf solution," with its embedded grinding/dressing cycles governed by a user-friendly menu-driven data entry, and wizard-guided wheel and diamond origin setup.

The Num Power CNC system saves the OEM or integrator years of software development effort, while lowering cost of employee training. It is perfectly suited for producing precision industrial parts 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 Grinding



## 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 grinding wheel, work piece, 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 cylindrical grinding program is automatically generated, stored, and ready for execution. On-line help file, step-by-step video tutorials and graphical grinding simulation, powered by ESPRIT, further facilitates the operation.

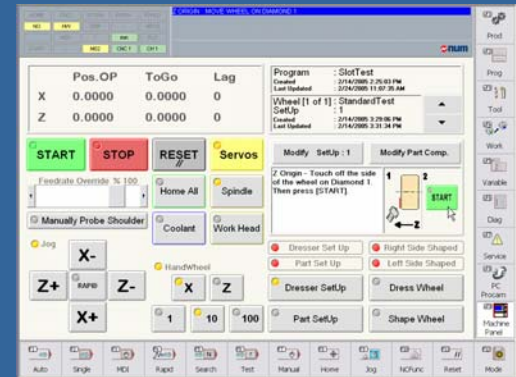
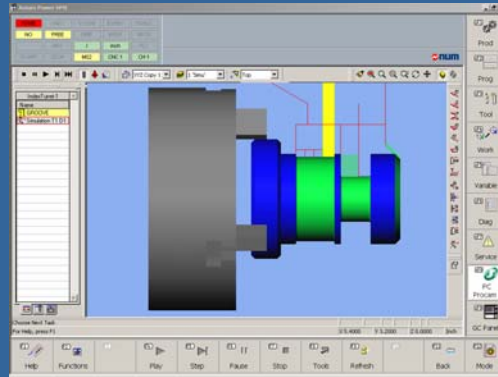
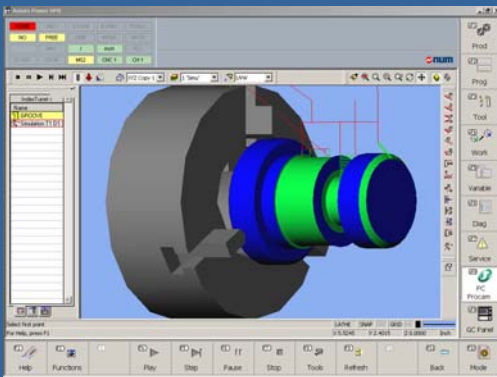
## Flexibility..... for a Range of Grinding Machines

The cylindrical grinding package allows for a full OD/ID grind cycle for 2-Axis (X/Z) grinding machines and has inclined axis capability by tilting the grinding head or the table. The dressing station can be table-mounted or rear-positioned to accommodate all existing machines. Other capabilities include wheel dressing with single/double point or roller dresser and profile grinding.

For surface grinding, Num offers full grind cycles for 3-Axis (X/Y/Z) machines with wheel dressing with single/double point or roller dresser capabilities.

NUM Power Solutions for Grinding	GC Cylindrical Grinding Package	GS Surface Grinding Package
<b>Embedded Grinding Cycles</b>		
OD/ID Plunge / Multi-plunge	●	○
OD/ID Plunge with inclined Axes	●	○
OD/ID Oscillating Plunge / Multi-plunge	●	○
OD/ID Cylinder Traverse	●	○
OD/ID Profile Traverse	●	○
OD/ID Taper Traverse	●	○
OD/ID Oscillating Shoulder	●	○
OD/ID Shoulder Traverse	●	○
OD/ID Shoulder Cylinder Blend	●	○
Slot Grind with Continuous Infeed	○	●
Slot Grind with Endpoint Infeed	○	●
Surface Grind with Continuous Infeed	○	●
Surface Grind with Endpoint Infeed	○	●
<b>Auxiliary Grinding Functions</b>		
Wheel Data Management (Eight Stored Setups)	●	●
Straight Wheels	●	●
Special Profile Wheels	●	●
Roller Dresser	●	●
Automatic Wheel Profiling	●	●
Automatic In-process Wheel Dressing	●	●
Automatic Wheel Surface Speed Calculations	●	●
Part and Dresser Setup Routines	●	●
Part Taper "Table Skew" Correction	●	●
Emergency Retract Sequence	●	●
Measurement and Part Origin Modification	●	○
Full cycle support for In-Process Gauging and Gap Elimination	●	○
<b>CAD and Graphic Ability, Powered by ESPRIT</b>		
Built in 2-D CAD for Profile Definitions	●	○
2-D / 3-D Grinding and Dressing Simulation	●	○

● Available ○ Unavailable



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- ❑ 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 a link below to download a video demo.

DOWNLOAD CYLINDRICAL  
GRINDING DEMO



DOWNLOAD SURFACE  
GRINDING DEMO



