



HEXAGON
MANUFACTURING INTELLIGENCE

WORKNC
Feature Chart

Systems

	WORKNC 2D WNC-2D	WORKNC 2D Positional WNC-2DP	WORKNC Basic Surface WNC-3X	WORKNC Basic Surface Positional WNC-3XP	WORKNC Full 3X WNC-F3X	WORKNC Full License WNC-FL	WORKNC Robot System WNC-BOTS	WORKNC Educational WNC-EDU	WORKNC Teacher System WNC-TEACH
Calculation Power									
One workzone calculation	•	•	•	•	•	•	•	•	•
Second workzone calculation while on maintenance						•			
Calculate up to 4 parallel processes while on maintenance	•	•	•	•	•	•	•	•	•
CAD Module									
2D and 3D Wireframe, Free-form Surface Design and Editing	•	•	•	•	•	•	•	•	•
Import DXF, DWG, STL, IGES, STEP, Parasolid, SOLIDWORKS	•	•	•	•	•	•	•	•	•
Milling									
Access to Machining Sequences - create, edit and run Sequences	•	•	•	•	•	•	•	•	•
Dynamic Stock Management and Stock Update	•	•	•	•	•	•	•	•	•
Dynamic Holder Collision Checking	•	•	•	•	•	•	•	•	•
Drilling and 2.5 Axis Milling Toolpath Strategies	•	•	•	•	•	•		•	•
Surface Context Management (multiple allowances)			•	•	•	•	•	•	•
Basic Surface Strategies			•	•	•	•		•	•
Advanced Surface Strategies					•	•		•	•
Positional Machining (3+2) (Angular Views)		•		•		•	•	•	•
Collision Checking									
Dynamic Holder Collision Checking for roughing toolpaths	•	•	•	•	•	•	•	•	•
Machine Collision Checking	•	•	•	•	•	•	•	•	•
Tool collision checking for both cutter and holder	•	•	•	•	•	•	•	•	•
Minimum safe tool length calculation	•	•	•	•	•	•	•	•	•
Collision Curve and Colliding Elements display	•	•	•	•	•	•	•	•	•
Collision ranges display along the toolpath, and ability to split	•	•	•	•	•	•	•	•	•
Maximum collision free holder profile calculation	•	•	•	•	•	•	•	•	•
Milling – 2.5 Axis									
Automatic and Manual Hole Machining	•	•	•	•	•	•		•	•
Point Drilling and Drilling, Tapping/Threading	•	•	•	•	•	•		•	•
Tangent to Curve and Curve Remachining	•	•	•	•	•	•		•	•
On-curve Engraving, Chamfering and Pocketing with Waveform	•	•	•	•	•	•		•	•
Die Flats Roughing and Die Flats Finishing	•	•	•	•	•	•		•	•
Facing, Rib Machining and Manual 2D	•	•	•	•	•	•		•	•
Wall Machining and Wall Plunge Machining	•	•	•	•	•	•		•	•
Milling - Roughing									
Global Rough/Rerough	•	•	•	•	•	•		•	•
Waveform Roughing			•	•	•	•	•	•	•
Flat Surface Rough/Rerough			•	•	•	•		•	•
Parallel Roughing					•	•	•	•	•
Adaptive Trochoidal, Spiral Core and Plunge Roughing					•	•		•	•
Milling - 3X Finishing									
Z-Level Finishing and Remachining			•	•	•	•		•	•
Optimised Z-Level Finishing and Variable Step Finishing			•	•	•	•		•	•
Planar Finishing and Remachining, and Optimised Planar Finishing			•	•	•	•		•	•
Spiral/Radial, Between 2 Curves, Keyways and Thin Wall Machining			•	•	•	•		•	•
Flat Surface Finishing and Contour Remachining			•	•	•	•		•	•
3D Contouring - Pencil Trace and 3D Drive Curve Finishing			•	•	•	•		•	•
Low-High Finishing and High-Low Finishing					•	•		•	•
Edge Finishing, Along the Curve and 2D Drive Curve Finishing					•	•		•	•
Continuous Finishing, ISO Finishing and 3D Finishing					•	•		•	•
Undercut Remachining and Parallel Pencil Trace					•	•		•	•
Combined Z-Level Finish + Optim.					•	•		•	•

Errors and omissions excepted.