WORKNC
Feature Chart 2022.0

	WORKNC 2D WNC-2D	WORKNC 2D Positional WNC-2DP	WORKNC Basic Surface WNC-3X	WORKNC Basic Surface Positional	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	•	•	•	•	•	•		•	•
Mililng - 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			•	•	•	•		•	•
Optimized Z-Level Finishing and Variable Step Finishing			•	•	•	•		•	•

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Feature Chart 2022.0

	WORKNC 2D WNC-2D	WORKNC 2D Positional WNC-2DP	WORKNC Basic Surface WNC-3X	WORKNC Basic Surface Positional	WORKNC Full 3X WNC-F3X	WORKNC Full License WNC-FL	WORKNC Robot System WNC-BOTS	WORKNC Educational WNC-EDU	WORKNC Teacher System WNC-TEACH
Planar Finishing and Remachining, and Optimized 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.					•	•		•	•

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	WORKNC Educational WNC-EDU	WORKNC Teacher System WNC-TEACH	Viewer WNC-VW	Shop Floor Editor WNC-SFE	WORKNC Robot System WNC-ROTS	WORKXPLORE WNC-PXP	WORKXPLORE Advanced Import Pack WNC-3DR	WORKXPLORE Export Pack WNC-EXP	Advanced Toolform WNC-ATF	Auto5 WNC-MA5	Standard 5-Axis WNC-M5X	5-Axis Post Processor (Universal) WNC-P5X	5-Axis Post Processor WNC-P5XCS	Extra Workzone Calculation Window WNC-1XWZ	Three Extra Workzone Calculation Windows	Advanced Parallel Processing WNC-APL	Extreme Parallel Processing WNC-EPL
Viewer and Shop Floor Editor																	
Load WORKNC Industrial Workzones	•	•	•	•	•												
Load WORKNC Educational Workzones	•	•															
Measure, Visualise, Zoom, Orbit, Simulate	•	•	•	•	•												
Edit Feeds and Speeds	•	•		•	•												
Generate NC code		•		•	•												
Save WORKNC Industrial Workzones				•	•												
Save WORKNC Educational Workzones	•	•															
WORKXPLORE																	
Import DXF, DWG, MESH, IGES, STEP, Parasolid, SOLIDWORKS format files						•											
Import Solid Edge, Inventor, ACIS 3D, CADDS, JT format files						•											
Markup, Measure and Analysis tools.						•											
Export STL, DXF, DWG format files.						•											
Import of 2D and 3D Catia V4, Catia V5, Catia V6, NX, PTC format files							•										
Export of IGES, STEP, and WORKNC format files and batch conversion								•									
Especial Machining Technologies																	
Calculate toolpath with non-parametric tool shapes (barrel cutters), for Parallel Finishing (3X), Rolling (5X) and Global Roughing	•	•							•								
Multi-Axis																	
WORKNC Auto5 and WORKNC Auto 3+2	•	•								•	•						
WORKNC 5 Axis Standard, Blade and Impeller Strategies	•	•									•						
Post-Process any 5 Axis Toolpath with any Post-Processor	•	•										•					
Post-Process any 5 Axis Toolpath using the checksum specified Post-Processor	•	•										•	•				
Calculate a selected list of applicable toolpaths for Robots					•												
Processing Power																	
Calculate a second workzone when another one is running *														•			
Calculate three extra workzones															•		
Calculate up to 4 parallel processes when off maintenance **	•	•														•	
Calculate up to 16 parallel processes																	•

WORKNC Feature Chart 2022.0

	All WORKNC industrial systems (2D, 2DP, 3X, 3XP, F3X, FL)	WORKNC Robot System WNC-BOTS	WORKNC Educational and Teacher WNC-EDU and WNC-TEACH	Direct Interface CATIA V4 WNCCAD-001 and PS-XC4	Direct Interface CATIA V5 WNCCAD-002 and PS-XC5	Direct Interface Unigraphics (NX) WNCCAD-004 and PS-XNX	Direct Interface Pro-Engineer WNCCAD-005 and PS-XPE	Direct Interface JT WNCCAD-006 and PS-XJT	Direct Interface CATIA V6 WNC-XC6	Direct Interface Bundle Max WNC-XMAX	WORKNC NC Project Export WNC-NCEXP	WORKNC Robot Module WNC-ROBOT
Default Direct Interfaces												
Load IGES, STL, Parasolid, STEP files	•	•	•									
Load SolidWorks files	•	•	•									
Load VISI files	•	•	•									
Load Designer and Vero Transfer Files (VDF and V_T)	•	•	•									
Load Autodesk Inventor files	•		•									
Load Solid Edge files	•		•									
Load ACIS files	•		•									
Load CADDS files	•		•									
Optional Direct Interfaces												
Load CATIA V4 files			•	•						•		
Load CATIA V5 files			•		•					•		
Load Unigraphics/NX files			•			•				•		
Load Creo Elements/Pro (formerly Pro/ENGINEER) & Pro/DESKTOP files			•				•			•		
Load JT files in WORKNC Designer			•					•				
Load CATIA V6 files in WORKNC Traditional			•						•	•		
Load JT files in WORKNC Traditional			•					•		•		
Export Interfaces												
Export to Robot Interface		•	•									•
Export to NCSIMUL	•	•	•									
Export to third party simulation											•	

*** The WNC-FL on maintenance also offers a second Workzone calculation ***
*** Any system on maintenance also offers 4 parallel processes**
*** Errors and omissions excepted.**