

## Feature Comparison V19 vs V18

	Version 19	Version18
File Import		
DXF Import	YES	YES
IGES Import	YES Solids & Surfaces	YES
STEP Import	YES Solids & Surfaces	NO
Solid Modeling	Version 19	Version 18
CAD-Design with Primitive Solids	YES	NO
Solid Edit-Boolean Operations – Union, Difference & Intersection	YES	NO
Automatic Stitch surfaces to Solid	YES	NO
Automatic Un-Stitch surfaces from Solid	YES	NO
Definition boundary machining	YES	NO
Solid or Surface Toolpath wizard	YES	NO
Solid part rendering	YES	NO
Isolation Surface Machining	YES	NO
Offset Surfaces & Solids	YES	NO
2 Axis Milling	Version 19	Version 18
Pocketing with island avoidance. Automatic Spiral & Horizontal toolpath.	YES	YES
Profiling - Open & Closed Shapes.	YES	YES
Engraving	YES	YES
Bolthole Patterns – Grid & Circular.	YES	YES
3 Axis Milling	Version 19	Version 18
Horizontal Z Level Roughing	YES	YES
Horizontal Z Level Finishing	YES	YES
Spiral Z Level Roughing	YES	YES
Spiral Z Level Finishing	YES	YES
Surface Roughing – Skin Surface, Revolved Surface, Swept Surface, Ruled Surfaces, Radial Surfaces.	YES	YES
Surface Finishing – Skin Surface, Revolved Surface, Swept Surface, Ruled Surfaces, Radial Surfaces.	YES	YES
Spiral Skin Surface Toolpath	YES	YES
Gears Creation & Machining	YES	YES
Clean Circle – Roughing & Finishing.	YES	YES
Project Text Onto Surfaces – Roughing and Finishing.	YES	YES
Project Text To Curves – Roughing & Finishing.	YES	YES
Surface Machine Around Raised Text – Roughing & Finishing.	YES	YES
Direct Surface Toolpath To Wireframe	YES	YES
4 Axis Milling	Version 19	Version 18
4 <sup>th</sup> Axis Indexing	YES	YES
5 Axis Milling	Version 19	Version 18
5 Axis Tool Positioning	YES	YES
5 Axis Surface Finishing	YES	YES
CAM & Communications	Version 19	Version 18
RS 232 Communications – Fully Customizable by the operator.	YES	YES
DNC Communications - Fully Customizable by the operator.	YES	YES
Post Processor Configurations - Fully Customizable by the operator.	YES	YES
Post Processor Library – Available to all customers at no extra charge.	YES	YES
Customizable CAM Menus	YES	YES
Customizable Drill Cycles	YES	YES
Customizable Tool Library	YES	YES
Customizable Tool Boxes & Icons	YES	YES
Graphical Tool Rendering	YES	YES
G-Code Editor	YES	YES
Color Coded NC Codes – Operator Definable.	YES	YES
Verification	Version 19	Version 18
Solid NC Verification/Part Simulation	YES	YES
NC Code Backplot	YES	YES
Hole Making	Version 19	Version 18
Drilling	YES	YES
Tapping	YES	YES
Boring	YES	YES
Reverse Boring	YES	YES
Peck Drilling	YES	YES
Reaming	YES	YES
Visual Basic	Version 19	Version 18
Visual Basic Scripting Capability	YES	YES
Create & Record Operations	YES	YES
Script Library	YES	YES
2 Axis Lathe	Version 19	Version 18
Customizable Tool Library	YES	YES

<b>Roughing</b>	<b>YES</b>	<b>YES</b>
<b>Finishing</b>	<b>YES</b>	<b>YES</b>
<b>Grooving</b>	<b>YES</b>	<b>YES</b>
<b>Slotting</b>	<b>YES</b>	<b>YES</b>
<b>Facing</b>	<b>YES</b>	<b>YES</b>
<b>Collision Detection</b>	<b>YES</b>	<b>YES</b>
<b>Diameter Programming</b>	<b>YES</b>	<b>YES</b>
<b>NC/G-Code Generation</b>	<b>YES</b>	<b>YES</b>
<b>Training</b>	<b>Version 19</b>	<b>Version 18</b>
<b>Complete Training Manual</b>	<b>YES</b>	<b>YES</b>
<b>Multimedia Training CD Videos – Includes interactive training workbook.</b>	<b>Yes (New)</b>	<b>YES</b>