HEXAGON

EDGECAM

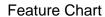# Turning
Feature Chart 2021.0

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Design				
2D Wireframe Design	●	●	●	●
EWS Solid Design **(while the licence is on an active maintenance contract)**	●	●	●	●
Automatic Feature Recognition, Manual Feature Finding, Wireframe geometry from solid	●	●	●	●
3D Wireframe and Rotary Design		●	●	●
Free-form Surface Design			●	●
Turning				
Facing, Turning, Threading, Thread Profiling, Grooving & Hole Cycles	●	●	●	●
Side Grooving Cycles	●	●	●	●

Feature				
Variable machining attributes For Rough and Finish Turning Cycles	●	●	●	●
Tailstocks and Steadies	●	●	●	●
Rough Waveform Turning Cycle		●	●	●
Merge and Rationalise Machining Sequences		●	●	●
C and Y-Axis Milling Machining		●	●	●
Rough Turn Cycle - Swarf Clearance option		●	●	●
Gun Drilling			●	●
Deep Hole Drilling			●	●
2 Turret/ATC Turning & Sub-spindle Support			●	●
Bar Pull			●	●
B-Axis ATC Indexing and Milling (Lathe Index)			●	●
3 and 4 Turret/ATC Turning & Sub-spindle Support				●
B Axis Contouring				●

Milling - General

Feature				
Milling and Drilling Cycles Collision Checking	●	●	●	●
Access to Strategy Manager - create, edit and run strategies	●	●	●	●
Milling and Drilling Cycles		●	●	●
Line/Arc Smooth or Point to Point Output		●	●	●
m & h Probing (Requires Y Axis capability)		●	●	●
Merge and Rationalise Machining Sequences		●	●	●
Thread Milling, Single and Multi-start		●	●	●
Back Boring support on Hole cycles		●	●	●

Turning
Feature Chart 2021.0

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Gun Drilling			●	●
Deep Hole Drilling			●	●
Spline Support for NC Output				●
Milling - Roughing				
Roughing 2D Wireframe, Solid models and Features	●	●	●	●
Intermediate Slices Rest Roughing	●	●	●	●
Profiling 2D Wireframe and 2D Profiling Feature		●	●	●
Roughing with Multi-level Islands		●	●	●
Roughing Contoured Walls with Cusp Height Control		●	●	●
Roughing Waveform strategy		●	●	●
Multi-tool Rest Roughing		●	●	●
Roughing - Detect Uncut Stock		●	●	●
Automatic Flat Land Detection		●	●	●
Automatic Trochoidal Milling		●	●	●
Plunge Roughing			●	●
Roughing Adaptive Feed Rates			●	●
Milling - Finishing				

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Flat Land Finishing	●	●	●	●
Chamfer Cycle	●	●	●	●
Profiling 2D Wireframe and 2D Profiling Feature	●	●	●	●
Profiling with Multi-level Islands		●	●	●

Turning
Feature Chart 2021.0

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Profiling Contoured Walls with Cusp Height Control		●	●	●
Profiling Spring Cuts		●	●	●
Parallel Lace Cycle		●	●	●
Profiling Solid models		●	●	●
Multi-tool Rest Flat Land Finishing		●	●	●
Engraving Cycle		●	●	●
Profiling Solids with Cusp Height Control			●	●
Profiling 3D Curves			●	●
Rest Profiling			●	●
Finish Shallow Areas - Constant Cusp			●	●
Project Toolpath and Text onto Surfaces			●	●
Projection Machining – Radial, Circular, two Curves			●	●
Single pass Pencil Milling			●	●
Flow Surface Cycle			●	●

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Profiling Undercuts			●	●
Parallel Lace Cycle - Up/Down control				●
Finish Shallow Areas - Projection				●
Steep Shallow Rest Finishing				●
Constant Cusp Finishing				●
Contact Angle Control				●
Multi-tool Rest Finishing				●
Pencil Milling - Multi-pass and Down Milling				●
Check Surface Control				●

Turning
Feature Chart 2021.0

EDGECAM Simulator

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Full Machine Tool Simulation	●	●	●	●
Sequence Browser in Simulate Machining (not Rapid Result)		●	●	●

Note : Milling machines with turning capability will require a Standard Production license or above to access turning functionality. Errors and omissions excepted.