

EDGECAM | 2021 Feature Chart

Milling Feature Chart 2021.0

	Essential Milling ENEE0-0	Standard Milling EN330-0	Advanced Milling EN3M0-0	Ultimate Milling ENSM0-P
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			●	●
Milling - General				
Milling and Drilling Cycles	●	●	●	●
Line/Arc Smooth or Point to Point Output	●	●	●	●
Collision Checking	●	●	●	●
Access to Strategy Manager - create, edit and run strategies	●	●	●	●
m & h Probing	●	●	●	●
Merge and Rationalise Machining Sequences		●	●	●
Thread Milling, Single and Multi-start		●	●	●
Indexing (2 rotary axes), Rotary Machining and Insert Component (Tombstone)		●	●	●
Back Boring support on Hole cycles		●	●	●
Angled head and second Z Axis support (Quills)			●	●

Milling

Feature Chart 2021.0

	Essential Milling ENEE0-0	Standard Milling EN330-0	Advanced Milling EN3M0-0	Ultimate Milling ENSM0-P
Deep Hole Drilling			●	●
Gun Drilling			●	●
Spline Support for NC Output				●
Milling - Roughing				
Roughing with Multi-level Islands	●	●	●	●
Intermediate Slices Rest Roughing	●	●	●	●
Profiling 2D Wireframe and 2D Profiling Feature		●	●	●
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				
Flat Land Finishing	●	●	●	●
Chamfer Cycle	●	●	●	●

Profiling 2D Wireframe and 2D Profiling Feature	●	●	●	●
Engraving Cycle (* Essential only includes the Centreline strategy)	●*	●	●	●
Profiling with Multi-level Islands		●	●	●
Profiling Contoured Walls with Cusp Height Control		●	●	●

Milling Feature Chart 2021.0

	Essential Milling ENEE0-0	Standard Milling EN330-0	Advanced Milling EN3M0-0	Ultimate Milling ENSM0-P
Profiling Spring Cuts		●	●	●
Parallel Lace Cycle		●	●	●
Profiling Solid models		●	●	●
Multi-tool Rest Flat Land Finishing		●	●	●
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			●	●
Profiling Undercuts			●	●
Parallel Lace Cycle - Up/Down control				●

3D Normal Offset Output (3D Compensation)				●
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				●
Full Machine Tool Simulation	●	●	●	●
<div> Milling Feature Chart 2021.0 </div>	Essential Milling ENEE0-0	Standard Milling EN330-0	Advanced Milling EN3M0-0	Ultimate Milling ENSM0-P
		●	●	●
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.				

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	●	●	●	●

Turning Feature Chart 2021.0

Essential Turning EN302-0

Standard Turning EN20C-0

Advanced Turning EN4CY-X

Ultimate Turning EN4BC-X

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				
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				

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			●	●



Feature Chart

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				●
<div>Turning</div> <div>Feature Chart 2021.0</div> <div> <div>Essential Turning EN302-0</div> <div>Standard Turning EN20C-0</div> <div>Advanced Turning EN4CY-X</div> <div>Ultimate Turning EN4BC-X</div> </div>				
EDGECAM Simulator				
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.				

Production 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			●	●
Milling – General				
Milling and Drilling Cycles	●	●	●	●

Production Feature Chart 2021.0

Essential Turning EN302-0

Standard Turning EN20C-0

Advanced Turning EN4CY-X

Ultimate Turning EN4BC-X

Line/Arc Smooth or Point to Point Output	●	●	●	●
Collision Checking		●	●	●
Access to Strategy Manager - create, edit and run strategies		●	●	●
m & h Probing (MillTurn required Y axis capability)		●	●	●
Merge and Rationalise Machining Sequences		●	●	●
Thread Milling, Single and Multi-start		●	●	●
Indexing (2 rotary axes), Rotary Machining and Insert Component (Tombstone)		●	●	●
Back Boring support on Hole cycles		●	●	●
Gun Drilling			●	●
Deep Hole Drilling				●
Angled head and second Z Axis support (Quills)				
Spline Support for NC Output				
Milling - Roughing				
Roughing 2D Wireframe, Solid models and Features	●	●	●	●
Roughing with Multi-level Islands	●	●	●	●
Roughing Contoured Walls with Cusp Height Control		●	●	●
Roughing Waveform strategy		●	●	●
Intermediate Slices Rest Roughing		●	●	●
Multi-tool Rest Roughing		●	●	●
Roughing - Detect Uncut Stock		●	●	●
Automatic Flat Land Detection		●	●	●

Production Feature Chart 2021.0

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Automatic Trochoidal Milling		●	●	●
Plunge Roughing			●	●
Roughing Adaptive Feed Rates			●	●
Turning				
Facing, Turning, Threading, Thread Profiling, Grooving & Hole Cycles	●	●	●	●
Side Grooving Cycles	●	●	●	●
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		●	●	●
Deep Hole Drilling			●	●
2 Turret/ATC Turning & Sub-spindle Support			●	●
Bar Pull			●	●
B-Axis ATC Indexing and Milling (Lathe Index)			●	●



HEXAGON

Feature Chart

3 and 4 Turret/ATC Turning & Sub-spindle Support				●
B Axis Contouring				●
EDGECAM Simulator				
Full Machine Tool Simulation	●	●	●	●
<div>Production Feature Chart 2021.0</div>	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
		●	●	●
Sequence Browser in Simulate Machining (not Rapid Result)		●	●	●
<div>Note : Milling machines with turning capability will require a Standard Production license or above to access turning functionality. Errors and omissions excepted.</div>				

Specialist Systems Feature Chart 2021.0

Shop Floor Editor

Shop Floor Editor ENSFE-0

Shop Floor Solids ENSFE-S

EDGECAM Wire ENPWE-0

WORKXPLORE
ENXP-0

WORKXPLORE Advanced Import
Pack EN3DR-I

WORKXPLORE Export Pack
ENEXP-0

Inspection ENINS-S

Load and save Edgecam part files (.ppf)	●						
Load Edgecam part files containing Parasolid, ACIS and Inventor models	●						
ToolStore applications, Editor, Utilities	●						
Load Edgecam part files containing CATIA V5 and Creo Parametric models		●					
Edit Tool size	●						
Edit Feeds and Speeds	●						

Specialist Systems Feature Chart 2021.0

	Shop Floor Editor ENSFE-0	Shop Floor Solids ENSFE-S	EDGECAM Wire ENPWE-0	WORKXPLORE ENXP-0	WORKXPLORE Advanced Import Pack EN3DR-I	WORKXPLORE Export Pack ENEXP-0	Inspection ENINS-S
Edit % Stepover and Depth of Cut	●						
Regenerate machining sequence	●						
Simulate the machining sequence	●						
Generate NC code	●						
Wire							
2D Wireframe Design			●				
3D Wireframe Design			●				
2 and 4-Axis Machines			●				

Pre-configured code generators, optionally configurable.			●				
Knowledge-based cutting schemes.			●				
Multiple strategies for corner types; including square ISO and conic.			●				
Reverse cutting with offsets and cutting technology changes.			●				
Lead In/Out and Support Tag Options			●				
Area Destruct Cycle			●				
AFR, Manual Feature Finding, Wireframe geometry from solid			●				
WORKXPLORE							
Import DXF, DWG, MESH, IGES, STEP, Parasolid, Solidworks format files				●			
Import Solid Edge, Inventor, ACIS 3D, CADDs, JT, EDGE CAM, VISI, WORKNC, PC DMIS				●			
Specialist Systems Feature Chart 2021.0	Shop Floor Editor ENSFE-0	Shop Floor Solids ENSFE-S	EDGE CAM Wire ENPWE-0	WORKXPLORE ENXP-0	WORKXPLORE Advanced Import Pack EN3DR-I	WORKXPLORE Export Pack ENEXP-0	Inspection ENINS-S
				●			
				●			
Markup, Measure and Analysis tools.				●			
Export file types: WORKXPLORE, DXF, DWG, Mesh (STL, OBJ, PLY, MEG), 3D and Control Points, 3D PDF, Client Viewer, User Views				●			

Import of 2D and 3D Catia V4, Catia V5, Catia V6, NX, Creo format files					●		
Export of IGES, STEP, PCDMIS, JT and WorkNC format files and batch conversion						●	
Inspection System							
Creates toolpaths for inspection measurement on the machine tool							●

Errors and omissions excepted.

Modules Feature Chart 2021.0

4-Axis Milling (Simultaneous)
EN040-S

5-Axis Milling (Simultaneous)
EN050-S

Advanced 5-Axis Milling
-A
Simultaneous) EN

Ultimate 5-Axis Milling
Simultaneous
EN050-U

Advanced Multi Task Machine
Options
ENM11W-U

Tombstone Manager
ENTMB-M

Probing – Controller Macros
ENPRB-0

Additive Machining Module
ENADD-M

Milling

EDGE CAM User Interface for 4/5 Axis Simultaneous Milling	●	●					
Moduleworks User Interface for 4/5 Axis Simultaneous Milling			●	●			
4-Axis Simultaneous Milling (Rotary)	●	●	●				
5-Axis Simultaneous Milling (SWARF, Rotary, Curve, Finishing)		●	●				

Table/table configurations - simultaneous and multi-plane	●	●	●					
Head/head configurations - simultaneous and multi-plane	●	●	●					
Profiling Cycle 3 to 5 Axis conversion		●	●					
Additional controls for the standard 4/5 Axis Simultaneous Milling			●					
Additional tilt and gouge check options for 3 to 5 Axis conversion option			●					
SWARF option for wireframe geometry			●					
Additional controls for the SWARF toolpath option			●					
Specify drive curve/orientation lines instead of surface curves			●					
Multi-blade part option(for machining impellers and bladed disks)				●				
Port Machining				●				
Tombstone Manager						●		
<div> <div>Modules</div> <div>Feature Chart 2021.0</div> </div> <div> <div>4-Axis Milling (Simultaneous) EN040-S</div> <div>5-Axis Milling (Simultaneous) EN050-S</div> <div>Advanced 5-Axis Milling -A Simultaneous) EN</div> <div>Ultimate 5-Axis Milling Simultaneous EN050-U</div> <div>Advanced Multi Task Machine Options</div> <div>ENW11M-U Tombstone Manager ENTMB-M</div> <div>Probing – Controller Macros ENPRB-0</div> <div>Additive Machining Module ENADD-M</div> </div>								
Probing - Controller Macros + (Millturn machines require Y axis capability)							●	
Additive Hybrid Machining (requires Advanced or Ultimate Milling/Production)								●

Turning								
Rotating Turning tools (requires Advanced or Ultimate Production)					●			
Errors and omissions excepted.								

Modules Feature Chart 2021.0

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Solid Machinist Max
ENSM0-M

Solid Machinist for Creo
ENSM0-R

Solid Machinist for CATIA
V5
ENSM0-C

Solid Machinist for NX
ENSM0-N

Essential Solid Loader
ENSM0-E

Wire Module
ENPWE-M

Advanced JavaScript PCI
ENPCI-J

Solid Machinist								
CAD Link inside the CAD System	●				●			
Load Autodesk Inventor Solids	●				●			
Load SolidWorks files	●				●			
Load Solid Edge files	●				●			
Load Parasolid .x_t, .x_b files	●			●	●			
Load Creo Elements/Pro (formerly Pro/ENGINEER) Solids See Note 1		●						
Load ACIS Solids	●		●		●			
Load CATIA V5 Solids			●					
Load Unigraphics Files				●				
Load STEP Files	●	●	●		●			
Load SpaceClaim Solids	●		●		●			

Load JT Open Files	●			●	●		
Load Kompas Solids	●				●		
Strategy Manager							
Flow Chart Strategy Designer	●	●	●	●	●		
Write and Save Strategies	●	●	●	●	●		
Run Strategies and Planning Board	●	●	●	●	●		
Strategy Support for Milling and Hole Features	●	●	●	●	●		
Strategy Support for Turning and Hole Features	●	●	●	●	●		
<div> <div> Solid Machinist Max ENSM0-M </div> <div> Solid Machinist for Creo ENSM0-R </div> <div> Solid Machinist for CATIA V5 ENSM0-C </div> <div> Solid Machinist for NX ENSM0-N </div> <div> Essential Solid Loader ENSM0-E </div> <div> Wire Module ENPWE-M </div> <div> Advanced JavaScript PCI ENPCI-J </div> </div>							
Wire							
2D Wireframe Design						●	
3D Wireframe Design						●	
2 and 4-Axis Machines						●	
Pre-configured code generators, optionally configurable.						●	
Knowledge-based cutting schemes.						●	
Multiple strategies for corner types; including square ISO and conic.						●	

Modules Feature Chart 2021.0

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Reverse cutting with offsets and cutting technology changes.						●	
Lead In/Out and Support Tag Options						●	
Area Destruct Cycle						●	
AFR, Manual Feature Finding, Wireframe geometry from solid						●	
Customisation							
PCI Javascript webforms (license must be in maintenance)							●

Change History

Date	Worksheet	Section	Description of change
21 July 2020	All		Genesis