

EDGECAM 2023.1

Milling Feature Chart

	Essential Milling ENEE0-0	Standard Milling EN330-0	Advanced Milling EN3M0-0	Ultimate Milling ENSM0-P
Design				
2D Wireframe Design	●	●	●	●
DESIGNER Companion (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	●	●	●	●
Thread Milling, Single and Multi-start		●	●	●
Indexing (2 rotary axes), Rotary Machining and Insert Component (Tombstone)		●	●	●
Back Boring support on Hole cycles		●	●	●
Merge and Rationalise Machining Sequences		●	●	●
Angled head and second Z Axis support (Quills)			●	●
6 axis machine functions (Index: Rotate table only + Select Rotary Axis)			●	●
Gun Drilling			●	●
Deep Hole 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		●	●	●

Milling - Roughing				
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		●	●	●
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			●	●

Milling - Finishing				
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				●
Simulator				
Full Machine Tool Simulation	●	●	●	●
Sequence Browser in Simulate Machining (not Rapid Result)		●	●	●
NCSIMUL Essential - Simulate 3 axis milling Toolpaths from EDGECAM (Not NC Code)	●	●	●	●
Note: Milling machines with turning capability will require a Standard Production license or above to access turning functionality. Errors and omissions excepted.				

EDGECAM 2023.1 Turning Feature Chart

	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
Design				
2D Wireframe Design	●	●	●	●
DESIGNER Companion (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	●	●	●	●
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				
Collision Checking	●	●	●	●
Access to Strategy Manager - create, edit and run strategies	●	●	●	●
Milling and Drilling Cycles		●	●	●
Line/Arc Smooth or Point to Point Output		●	●	●
Merge and Rationalise Machining Sequences		●	●	●
Thread Milling, Single and Multi-start		●	●	●
Back Boring support on Hole cycles		●	●	●
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		●	●	●

Profiling Contoured Walls with Cusp Height Control		●	●	●
Profiling Spring Cuts		●	●	●
Parallel Lace Cycle		●	●	●
Profiling Solids models		●	●	●
Multi-tool Rest Flat Land Finishing		●	●	●
Engraving Cycle		●	●	●
Profiling Solids/Surfaces 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				●
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				●
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.				

EDGECAM 2023.1 Production Feature Chart

	Essential Production ENEEE-0	Standard Production EN0PP-0	Advanced Production ENPPP-0	Ultimate Production ENPRO-0
Design				
2D Wireframe Design	•	•	•	•
DESIGNER Companion (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	•	•	•	•
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		•	•	•
6 axis machine functions (Index: Rotate table only + Select Rotary Axis)			•	•
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			●	●	●
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 in Milling sequences)		●	*	●	●
Profiling with Multi-level Islands			●	●	●
Profiling Contoured Walls with Cusp Height Control			●	●	●
Profiling Spring Cuts			●	●	●
Parallel Lace Cycle			●	●	●
Profiling Solid models			●	●	●
Multi-tool Rest Flat Land Finishing			●	●	●
Profiling Solids/Surfaces 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				●
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)			●	●
3 and 4 Turret/ATC Turning & Sub-spindle Support				●
B Axis Contouring				●
Edgecam Simulator				
Full Machine Tool Simulation	●	●	●	●
Sequence Browser in Simulate Machining (not Rapid Result)		●	●	●
NCSIMUL Essential - Simulate 3 axis milling Toolpaths from EDGE CAM (Not NC Code)	●	●	●	●
Note: Milling machines with turning capability will require a Standard Production license or above to access turning functionality.				

Errors and omissions excepted.

EDGECAM 2023.1 Specialist Systems Feature Chart

	Shop Floor Editor ENSFE-0	Shop Floor Solids ENSFE-S	Edgecam Wire ENPWE-0	WorkXplore ENXP-0	WorkXplore Advanced Import Pack ENADDP-1	WorkXplore Export Pack ENEXP-0	Inspection ENINS-S
Shop Floor Editor							
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	● ●						
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				•			
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, PC DMIS, JT and WorkNC format files and batch conversion						•	
Inspection System							
Creates toolpaths for inspection measurement on the machine tool							•

Modules Feature Chart 2023.1

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	4- Axis Milling (Simultaneous) EN040-S	Advanced 5-Axis Milling (Simultaneous) EN050-A	Ultimate 5-Axis Milling (Simultaneous) EN050-U	Advanced Multitask Machine Options ENMTM-0	Tombstone Manager ENTMB-M	Probing – Controller Macros ENPRB-0	Additive Machining Module ENADD-M
Milling							
Edgecam User Interface for 4/5 Axis Simultaneous Milling	•	•					
ModuleWorks User Interface for 4 Axis Simultaneous Milling	•	•					
ModuleWorks User Interface for 5 Axis Simultaneous Milling		•	•				
4-Axis Simultaneous Milling (SWARF, Rotary, Curve, Finishing, Deburring)	•	•					
5-Axis Simultaneous Milling (SWARF, Rotary, Curve, Finishing, Deburring)		•					
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					•		
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 2023.1

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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	●	●	●	●	●		
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						●	
Customisation							
PCI Javascript webforms (license must be in maintenance)							●

Change History

Date	Worksheet	Section	Description of change
25 April 2023	Milling and Production Features	Milling General	Added text for 6 axis functions under Advanced
28 March 2022	Milling Feature Chart	Milling General	Delete "m & h Probing", free m & h probing no longer making sense, due to only wireframe. Functionality will remain, just no more "m & h"
28 March 2022	Turning Feature Chart	Milling General	Delete "m & h Probing"
28 March 2022	Production Feature Chart	Milling General	Delete "m & h Probing"
28 March 2022	Modules Feature Chart	4&5 Axis Simultaneous	Added Deburring
30 March 2021	Milling Turning Production	Design	Added DESIGNER Companion Removed EWS
30 March 2021	Modules Feature Chart	Milling	Added ModuleWorks User Interface for 4 Axis Simultaneous Milling
30 March 2021	Modules Feature Chart	Milling	Removed EN050-S Standard 5-Axis Milling (Simultaneous) and Added the EDGECAM interface to EN050-A
30 March 2021	Milling Production	Simulator	Added NCSIMUL Essential - Simulate 3 axis milling Toolpaths from EDGECAM (Not NC Code)
23 March 2020	Modules Feature Chart	Milling	Changed Renishaw Probing to Probing – Controller Macros
17 September 2019	Specialist Systems	Part Modeler	Removed Part Modeler ENPM0-0 Solid CAD\CAM ENPSM-0
26 March 2019	All	All	Removed old logo and made EDGECAM upper case
26 March 2019	Turn, Production	Turning	Added Thread Profiling
26 March 2019	Milling Turning Production	General	Added Gun Drilling
15 October 2019	Modules	Inspection	Removed (now has its own feature chart)
15 October 2019	Modules	IGES	Retired from price list IGES Clean and Heal EN000-H
15 October 2019	Modules	SM for Granite	Retired from price list
15 October 2019	Modules	Additive	Added new license for Aditive
11 April 2018	Modules	SM for Creo	Added new license for Solid Machinist for Creo
11 April 2018	Modules	Load Creo Elements	Added Note 2. Solid Machinist for Creo loads the same files as Solid Machinist for Granite, but the model is stored in Edgcam as a parasolid body.
11 April 2018	Specialist Systems	Adveon system	Retired from price list

11 April 2018	Modules	Adveon system	Retired from price list
17 October 2017	Specialist Systems	Shop Floor Editor	Remove reference RS232
17 October 2017	Modules	Data Management	Remove Autodesk Vault
17 October 2017	Milling Turning Production	Milling Roughing	Added Roughing Detect Undercut Stock
17 October 2017	Milling Turning Production	Milling Finishing	Added Profiling Spring Cuts
17 October 2017	Milling Turning Production	Milling General	Added Deep Hole Drilling
17 October 2017	Modules	Solid Machinist	Added JT Open files