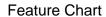


EDGECAM | 2021 Feature Chart

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	•	•	•	•
Milling Feature Chart 2021.0	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.



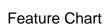


Turning Feature Chart 2021.0

Feature Chart 2021.0	Essential	Standard ⁻	Advanced T	Ultimate 7
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	•	•	•	•

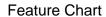
Turning Feature Chart 2021.0

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			•	•

Milling - Finishing

Roughing Adaptive Feed Rates





Flat Land Finishing	•	•	•	•
Chamfer Cycle	•	•	•	•
Profiling 2D Wireframe and 2D Profiling Feature	•	•	•	•
Profiling with Multi-level Islands		•	•	•

Turning Feature Chart 2021.0

Profiling Contoured Walls with Cusp Height Control

Profiling Spring Cuts

Parallel Lace Cycle

Engraving Cycle

Profiling 3D Curves

Single pass Pencil Milling

Flow Surface Cycle

Rest Profiling

Profiling Solid models

Multi-tool Rest Flat Land Finishing

Profiling Solids with Cusp Height Control

Finish Shallow Areas - Constant Cusp

Project Toolpath and Text onto Surfaces

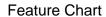
Projection Machining - Radial, Circular, two Curves

Advanced Turning EN4CY-X Ultimate Turning EN4BC-X Essential Turning EN302-0





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	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
EDGECAM Simulator				
Full Machine Tool Simulation	•	•	•	•
Sequence Browser in Simulate Machining (not Rapid Result)		•	•	•
Note : Milling machines with turning capability will require a access turning functionality. Errors and				r above to





Production Feature Chart 2021.0

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	•	•	•	•

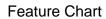
Production Feature Chart 2021.0

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	Standard Turning EN20C	Advanced Turning EN4CY	Ultimate Turning EN4BC.
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)			•	•



3 and 4 Turret/ATC Turning & Sub-spindle Support				•
B Axis Contouring				•
EDGECAM Simulator			_	
Full Machine Tool Simulation	•	•	•	•
Production Feature Chart 2021.0	Essential Turning EN302-0	Standard Turning EN20C-0	Advanced Turning EN4CY-X	Ultimate Turning EN4BC-X
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.

Specialist Systems Feature Chart 2021.0

Shop Floor Editor ENSFE-0 Shop Floor Solids ENSFE-S
EDGECAM WIRE ENPWE-U WORKXPLORE ENPXP-0
WORKXPLORE Advanced Import Pack EN3DR-I
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	•				

Specialist Systems Feature Chart 2021.0	Shop Floor Editor ENSFE-0	Shop Floor Solids ENSFE-S	EDGECAM Wire ENPWE-0	WORKXPLORE ENPXP-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	•				le .	l.	
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, EDGECAM, VISI, WORKNC, PCDMIS				•			
Specialist Systems Feature Chart 2021.0	Shop Floor Editor ENSFE-0	Shop Floor Solids ENSFE-S	EDGECAM Wire ENPWE-0	WORKXPLORE ENPXP-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 202

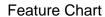
Curve, Finishing)

Modules Feature Chart 2021.0	4-Axis Milling (Simultaneous) EN040-S	5-Axis Milling (Simultaneous) EN050-S	Advanced 5-Axis Milling Simultaneous) EN	Ultimate 5-Axis Milling Simultaneous EN050-U	Advanced Multi Task Machine Options	ENINT INFU 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 4/5 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 impellors and bladed disks)				•				
Port Machining				•				
Tombstone Manager						•		
	neous)	eous)	ling -A	lling	ine	ger	so	ule
Modules Feature Chart 2021.0	4-Axis Milling (Simultaneous) EN040-S	5-Axis Milling (Simultaneous) EN050-S	Advanced 5-Axis Milling Simultaneous) EN	Ultimate 5-Axis Milling Simultaneous EN050-U	=	EININI INI-U Tombstone Manager ENTMB-M	Probing _ Controller Macros ENPRB-0	Additive Machining Module ENADD-M
)		± 60 ←	d Multi	ENM I M-U Tombstone Mana; ENTMB-M	တ္ -	Additive Machining Mod ENADD-M





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

Modules Feature Chart 2021.0 Solid Machinist Max ENSM0-M Solid Machinist for CATIA V5 ENSM0-C Solid Machinist for NX ENSM0-N ESSENTIAL Solid Loader ENSM0-E NITE Module NPWE-M

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	I						
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	•	•	•	•	•		
Modules Feature Chart 2021.0 Page 2	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
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
21 July 2020	All		Genesis