

2026 CAMJam

Includes:

CAMJam 2026 Redesign

What's New in 2026

Configurations & Modules

2.5 Axis Support Issues

New 3, 4 & 5 Axis Videos

System Performance Updates!

Mastering VisualCAD

Indexed Machining

Real-World RhinoCAM Demos

TURN, NEST, Profile-Nest, Speed Factor

Sample Files and Posts

700 Tips & Best Practices!

And much more!



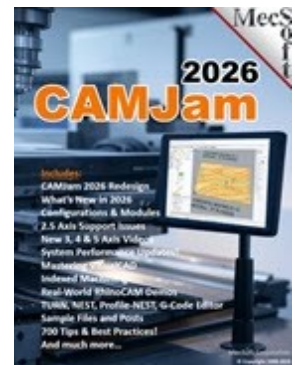
SAMPLE ONLY

Table of Contents

CAMJam 2026 is Here!	3
How to Get CAMJam 2026	9
Read This First!	11
Webinars by Configuration	12
Webinars by Experience	17
Reference Material	22
Source Material	23
What's New in 2026	26
2.5 Axis Support	30
2.5 Axis Advanced	33
3 Axis Basic	36
Index	39

CAMJam 2026 is Here!

MecSoft Corporation is proud to announce the release of **CAMJam 2026**, the Video and document Training Companion set for our popular **VisualCAD/CAM** and **RhinoCAM CAM** modules. **CAMJam 2026** now includes over **700 Tips & Best Practices** from over 70 full-length training webinars! The guide covers the complete suite of the MecSoft CAM module functionality including **MILL, TURN, NEST, ART, Profile-NEST,** and **G-Code Editor!** **CAMJam 2026** includes our popular **CAM Performance** collection that includes the new 2026 NVIDIA Tri-Dexel Simulation model and all of the new 2026 features, our 2½ and 3 Axis Bootcamp collection covering Common Support Issues, CAM Automation, Post-Processing, and more.

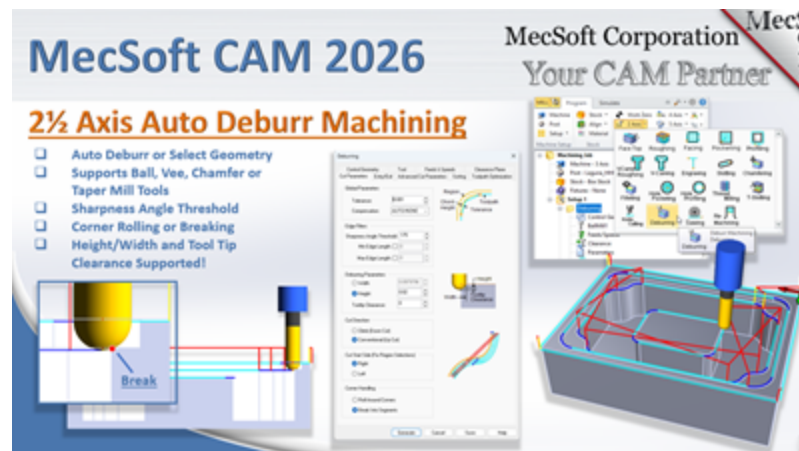


CAMJam 2026

Here is a list of just some of the training you will find in **CAMJam 2026**:

What's New in MecSoft CAM 2026

Full length video training on all of the new functionality packed into **RhinoCAM 2026** and **VisualCADCAM 2026** including 5 Axis (3+2) Auto-Rough, 4 Axis Extrusion Machining, 2.5 Axis Auto-Debur, Performance Upgrades, and much more...



NVIDIA Tweaks for Tri-Dexel Simulation

Dedicated training on how to fine-tune your NVIDIA graphics card to get the best performance possible during cut material simulations using the newly introduced Tr-Dexel Cut Material Simulation model.

Graphics Performance

MecSoft Corporation
Your CAM Partner

Windows: System > Display > Graphics

1. Optimize for Windows Games: OFF
2. Hardware accelerated GPU scheduling: ON
3. Don't rely on global settings. Use per-app profiles
4. Rhino 8/VisualCAD:
GPU Preference: Select Your Graphics Card
Optimization for Windows Games: OFF

Graphics Card Drivers

1. Download the latest drivers from official sites only.
2. Check Driver Updates Monthly
3. Select "Clean Install" when Installing Drivers
4. Avoid "Game Ready" Drivers & Modes

NVIDIA Control Panel Tips

1. Power management mode: Prefer Maximum Performance
2. OpenGL rendering GPU: Your dedicated NVIDIA GPU
3. CUDA - GPU(s): All (or your main GPU)
4. Threaded Optimization: On (or Auto)
5. Triple buffering: Off
6. Antialiasing (FXAA / MFAA / Mode): Off or Application-controlled
7. Anisotropic filtering: Application-controlled
8. Image Scaling / Sharpening: Off
9. Low Latency Mode: Off (not useful for CAD)
10. Vertical Sync: Off (or Use application setting)
11. Texture filtering - Quality: High Performance
12. Negative LOD bias: Clamp
13. Shader cache: On (default)

NVIDIA

↑ 25% Performance

NVIDIA Tweaks for Tri-Dexel Simulation

New 4 Axis Methods Training

Covers setup, CAM programming and posting of the new 4 Axis Extrusion methods as well as these true 4 Axis methods: R-Level Roughing, 4 Axis R-Level Finishing, 4 Axis Parallel Finishing, Pocketing Facing and Drive Surface machining.

Continuous 4 Axis Machining

MecSoft Corporation
Your CAM Partner

Parallel Finishing

Drive Surface Machining (True 4 Axis)

Facing, Pocketing & Profiling

R-Level Roughing & Finishing

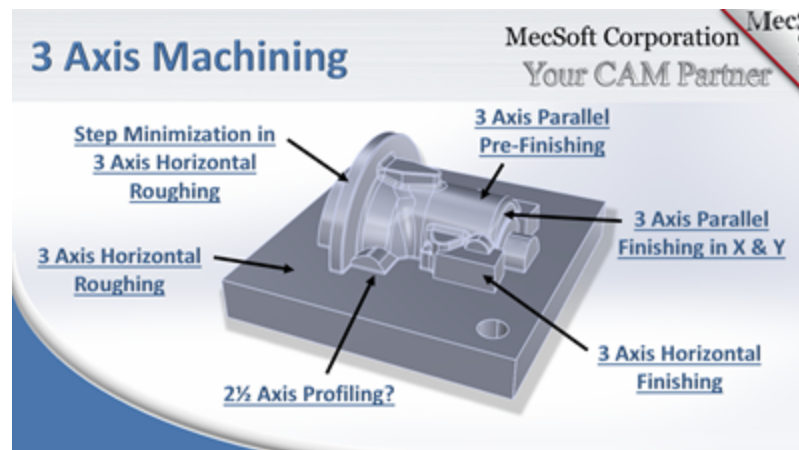
4 Axis CAM Operations:

- R-Level Roughing
- R-Level Finishing
- Parallel Finishing
- Drive Surface Machining
- Facing, Pocketing & Profiling

New 4 Axis Methods Training

Machining 3D Models with STD Configuration

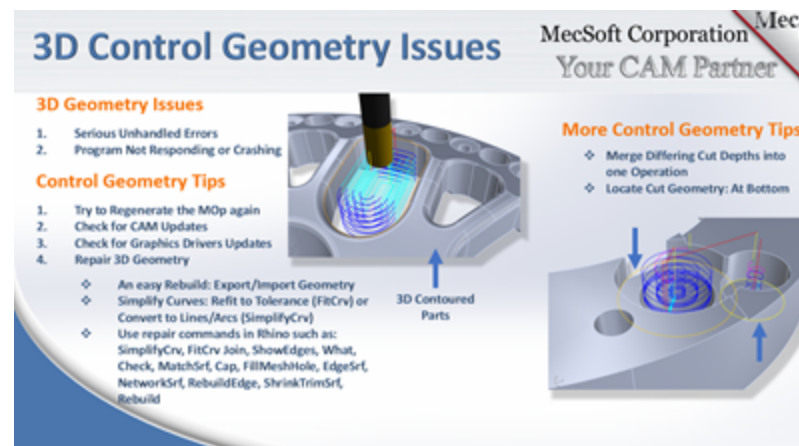
This training includes basic 3 Axis methods for 3D models using a positive mold core example. The milling operations include Horizontal Roughing with Step Minimization, Horizontal Finishing, Parallel Pre-Finishing and Finishing as well as parting plane machining for mold cores.



Machining 3D Models with STD Configuration

Common 2.5 Axis Support Training

This training includes common issues such as setup and positioning, geometry, posting and preferences. Milling and Drilling are covered including cut levels, arc fitting, setup and drilling cycle support..



Common 2.5 Axis Support Training

Basic & Advanced TURN Module Training

This training covers the 2.5 Axis TURN Module including geometry requirements, setup and stock, OD and ID roughing and finishing, straight and tapered threading and threading cycles, simulation, post-processing and more.

Machining 2D Drawings in TURN **MecSoft Corporation**
Your CAM Partner

Agenda

- Geometry Requirements for TURN
- Setup and Stock Considerations
- OD Turn Roughing and Finishing
- ID Turn Roughing and Finishing
- Straight and Tapered Threading
- Breakchip Drilling
- Toolpath Simulation
- Post-processing
- Simulation

CAM Simulation

2D Drawing

Basic & Advanced TURN Module Training

The 2026 MecSoft Documentation Portal

In 2026 MecSoft went live with a new documentation portal where you can access all of the available help resources including Quick Start Guides, Online WebHelp and a full Resource Library!

MecSoft Corporation
Your CAM Partner

MecSoft Corporation
Powerful and affordable CAD/CAM software

MecSoft Online Help Resources

Access online help and documentation entry points across RhinoCAM, VisualCAD/CAM, and CAMJam releases. Each year is grouped separately so the version boundaries are clear.

DOCUMENTATION PORTAL
Organized by release year
Use the grouped sections below to jump directly to the resources pertaining to the correct release.

Multi-Year Access Product Docs Quickstart & Resources

Online help landing page for MecSoft releases
Choose a year section below, then open the product documentation you need. Each destination opens in a new browser tab.

9
DESTINATIONS

2026 Release

Current release documentation entry points for RhinoCAM, VisualCAD/CAM, and CAMJam.

RHINOCAM
RhinoCAM 2026
Open the RhinoCAM 2026 documentation landing page for quickstart guides and full resources.

VISUALCAD/CAM
VisualCAD/CAM 2026
Open the VisualCAD/CAM 2026 documentation landing page for quickstart guides and full resources.

CAMJAM
CAMJam 2026
Open the CAMJam 2026 PDF resource directly.

H2 Additional Video Training

Here are just some of the additional training topics that are covered in this newly designed CAM Jam 2026 video guide:

- 2.5 Axis Basic & Advanced
- 2.5 Axis from 2D Drawings
- 3 Axis Basic & Advanced
- 3 Axis Indexed “Flip” Machining
- 4 Axis Basic & Advanced
- 4 Axis Indexed
- 5 Axis Indexed (3+2)
- 5 Axis Continuous
- 2.5 Axis TURN Basic & Advanced
- Cabinet Automation
- Nesting Parts and Sheet Machining
- System Performance Series
- Post-processing Basic & Advanced
- Profile Nest Machining
- Real-world Component Machining
- Understanding Containments
- CAM in Education Series
- Hole Machining
- Knowledge Base Automation
- 2D, 3D Solids & Mesh Geometry
- Cutting Tools Feeds & Speeds
- Coordinate Systems

Now with Tips & Best Practices!

CAMJam 2026 now includes over 700 Tips & Best Use Practices for getting the best from your RhinoCAM and VisualCAD/CAM. These tips are indexed for each access and linked to the specific videos where the practice is demonstrated.

To get your Annual Maintenance Subscription

To learn more about being an AMS subscriber and CAMJam 2026 just give us a call, chat, or contact MecSoft sales and/or support. We will be happy to give you all of the details.

More articles about CAMJam

- [How to Download Your CAMJam Training Materials](#)

More about MecSoft CAM Products

For more information about each of these Mill Module products, including data sheets, videos, and other resources we invite you to visit the following product pages:

- [VisualCAD/CAM-MILL \(VisualMILL\)](#)

- [RhinoCAM-MILL](#)

How to Get CAMJam 2026

As an active **MecSoft Annual Maintenance Subscription (AMS)** user you not only get free annual product upgrades and priority technical support, you also get exclusive access to our CAMJam Self Training materials! This download includes the **CAMJam 2026 Video Guide** of over 70 full-length training webinars and more **700 Tips & Best Practices** from the support staff.

The guide covers the complete suite of the MecSoft CAM module functionality including **MILL, TURN, NEST, ART, Profile-NEST, and G-Code Editor!** **CAMJam 2026** includes our popular CAM Performance collection that includes the new 2026 NVIDIA Tri-Dexel Simulation model and all of the new 2026 features, our 2½ and 3 Axis Bootcamp collection covering Common Support Issues, CAM Automation, Post-Processing, and much more.

How to Download Your CAMJam Training Materials!

Here are the basic steps to download your CAMJam Self Training materials:

1. When you sign up for AMS you will receive an email with your login credentials to the **MecSoft VisualSERVE** customer portal.



When you sign up for AMS you will receive an email with your login credentials to the MecSoft VisualSERVE customer portal.

2. Enter the email address and password provided to you in the email. **Note:** Make sure you see and check the CAPTCHA to confirm that you are a real user!

The screenshot shows a login form with the following elements:

- A text input field labeled 'Login ID / Email Address:' containing the text 'may.email.address'.
- A password input field labeled 'Password :' with masked characters '*****'.
- A CAPTCHA box containing a green checkmark, the text 'I'm not a robot', and a mouse cursor icon. To the right of the CAPTCHA is the reCAPTCHA logo and links for 'Privacy - Terms'.
- A 'LOGIN' button at the bottom.


 Red arrows point to the CAPTCHA box and the LOGIN button.

Enter the email address and password provided to you in the email. Note: Make sure you see and check the CAPTCHA to confirm that you are a real user!

3. From your MecSoft VisualSERVE Customer Portal home page, locate the **Download CAMJam** button and select it.

You will also find links that will allow you access to the Premium Support forum(s). These forums are available only to customers who are active on the maintenance subscriptions.

Account Information	
Login ID	
Purchased Product(s)	
Company	
Associated email address	
Annual Maintenance Subscription Status	Active
Maintenance Subscription Renewal Date	
Premium Support Forum Link	Premium Forum Access
CAMJam Download Link	CAMJam Download



From your MecSoft VisualSERVE Customer Portal home page, locate the Download CAMJam button and select it.

4. Download the [MecSoft CAMJam](#) archive file to your local hard drive, extract the contents and you are on your way to self-learning your MecSoft CAM plug-in!

To Get Your Annual Maintenance Subscription

To learn more about being an AMS subscriber and CAMJam just give us a call, chat or contact MecSoft [sales](#) and/or [support](#). We will be happy to provide all the details.

More about MecSoft CAM Products

For more information about each of these Mill Module products, including data sheets, videos, and other resources we invite you to visit the following product pages:

- [VisualCAD/CAM-MILL \(VisualMILL\)](#)
- [RhinoCAM-MILL](#)

Read This First!

How to use this Guide:

1. Newer videos are always listed higher in the tables and in the **Table of Contents** on the left side of this guide.
2. Older videos that are listed closer to the middle and bottom are still relevant since all features introduced are still in the product today.
3. Select a link from column #1 to go to the page in this guide dedicated to that video. Each video page contains a video description, video time-stamp links into the actual video, a list of **Tips & Best Practices** and **Key Takeaways** extracted from each video.
4. If you are looking for a specific feature, see the Product Features page. It lists many of the features in each product with a link to the What's New webinar that first introduced the feature.
5. There are over **700 Tips & Best Practices** in this entire guide! See each video page for the list of Tips & Best Practices demonstrated.
6. For questions and/or comments please contact us at support@mecsoft.com

Webinars by Configuration

About the Table Below:

1. The table below lists the full-length training webinar in the left side column #1. The video titles shown are abbreviated and are not the full titles shown on the [MecSoft YouTube](#) channel.
2. The icons in columns #2-#6 indicate the [MecSoft CAM](#) configuration ([XPRESS](#), [STD](#), [XPERT](#), [PRO](#), & [PREM](#)) that is relevant to each video.
3. It is important to note that ALL of the CAM features demonstrated in these videos are supported in both [RhinoCAM](#) and [VisualCAD/CAM](#) and are identical in their implementation and work flow.
4. The icons in columns #7 and #8 simply indicate which product ([RhinoCAM](#) or [VisualCAD/CAM](#)) is demonstrated in the video.
5. If there is an icon in Column #9, it means that the video demonstrates VisualCAD functions during the video.

Table of Webinars by Configuration and Product:

#1 Webinar	#2 XPRESS	#3 STD	#4 XPERT	#5 PRO	#6 PREM	#7 Rhino	#8 VCC	#9 Visual CAD
Configurations	-						-	-
2.5 Axis Support							-	-
4 Axis Continuous	-	-					-	-
4 Axis Indexed	-	-					-	-
3 Axis Basic							-	-
2.5 Axis Adv							-	-
TURN Advanced	-					-		
2.5 Axis 2D Dwgs						-		
NEST Real World	-						-	-
VisualCAD/CAM				-	-	-	-	-
Getting Started							-	-

#1 Webinar	#2 XPRESS	#3 STD	#4 XPERT	#5 PRO	#6 PREM	#7 Rhino	#8 VCC	#9 Visual CAD
5 Axis Indexed							-	-
Cabinet Automation	-						-	-
Using VisualCAD	-	-	-	-	-	-	-	
Repair Control Geometry	-	-	-	-	-	-	-	
CAM a 2D Drawing			-	-	-	-	-	
Guitar Body	-	-	-				-	-
Real World Parts	-	-	-				-	-
Power User								
4 Axis Advanced	-	-					-	-
3 Axis Advanced								
3 Axis Basic	-						-	-
2.5 Axis Prismatic	-						-	-
2.5 Axis Support							-	-
Cut Tubular Intersections	-	-	-	-	-	-	-	
CAM Automation								
TURN Basic	-						-	-
Flip Machining	-						-	-
Post Advanced							-	-
Profile NEST	-						-	-
Model Masking Surfaces	-	-	-	-	-	-	-	
2.5 Axis Bootcamp	-						-	-

#1 Webinar	#2 XPRESS	#3 STD	#4 XPERT	#5 PRO	#6 PREM	#7 Rhino	#8 VCC	#9 Visual CAD
2 & 3 Axis	-						-	-
2.5 Axis Special	-	-	-				-	-
Performance								
Molds	-	-	-				-	-
Guitars	-	-	-				-	-
Control Geometry	-						-	-
5 Axis Indexed	-	-	-				-	-
4 Axis Introduction	-	-					-	-
4 Axis Advanced	-	-					-	-
4 Axis Basic								
3 Axis Power	-						-	-
3 Axis Advanced	-	-	-				-	
VisualCAD Shorts	-	-	-	-	-	-	-	
3 Axis Basic							-	-
CAM in Edu						-		
2.5 Axis Power User	-						-	-
2.5 Axis Advanced	-						-	-
Scanned Orthotics								
Mesh, CAM & ART	-					-		
4 Axis Scan Data								
CAM in High School						-		
G Code Editor	-						-	-

#1 Webinar	#2 XPRESS	#3 STD	#4 XPERT	#5 PRO	#6 PREM	#7 Rhino	#8 VCC	#9 Visual CAD
Profile-NEST	-						-	-
2.5 Axis Pocketing & Profiling							-	
Common Support							-	-
RhinoCAM in Edu							-	-
Knowledge Bases	-						-	-
Using VisualCAD	-	-	-	-	-	-	-	
Hole Machining	-						-	-
Post Advanced	-						-	-
TURN Basic	-						-	-
Use of Selections	-					-		
5 Axis Machining	-	-	-	-			-	-
Multi Sided Parts	-	-	-					
Parts Nesting	-						-	-
Machining Molds	-	-	-				-	-
Mesh Machining	-						-	-
Feature Machining	-					-		
Cutting Tools								
3 Axis Best Practices	-							
CAM in Education	-						-	-
Feeds and Speeds								
Coordinate Systems								




































#1 Webinar	#2 XPRESS	#3 STD	#4 XPERT	#5 PRO	#6 PREM	#7 Rhino	#8 VCC	#9 Visual CAD
2.5 Axis Standard	-					-		
4 Axis Jewelry	-	-					-	-
CAM in Edu	-						-	-
CAM Automation	-						-	-
Feature Machining	-							
4 Axis Furniture	-	-				-		
CAM in Education	-						-	-










Webinars by Experience

About The Table Below:

















































1. The table below lists the full-length training webinar in the left side column. The video titles shown are abbreviated and are not the full titles shown on the [MecSoft YouTube](#) channel.
2. The icons in each column indicate the [MecSoft CAM](#) (or general CAM) user's experience level suggested to fully understand the concepts discussed in the video.
3. If you are completely new or have limited knowledge of CAM, begin by watching the webinars in the "New" column, then progressively proceed to webinars in the columns to the left.
4. If you are an advanced and experienced CAM user, you can proceed directly to the Intermediate and Advanced column but it is suggested that also schedule time to also review the videos in the columns to the left.









Table of Webinars By User Experience Level

Webinar	New Users	Limited	Intermediate	Advanced
Configurations				
2.5 Axis Support				
4 Axis Continuous	-	-		
4 Axis Indexed	-	-		
3 Axis Basic				
2.5 Axis Adv	-	-		
TURN Advanced	-	-		
2.5 Axis 2D Dwgs				
NEST Real World	-			
VisualCAD/CAM				
Getting Started				
5 Axis Indexed	-	-	-	
Cabinet Automation	-	-		

Webinar	New Users	Limited	Intermediate	Advanced
Using VisualCAD				
Repair Control Geometry				
CAM a 2D Drawing				
Guitar Body	-	-		
Real World Parts				
Power User	-	-		
4 Axis Advanced	-	-		
3 Axis Advanced	-	-		
3 Axis Basic				
2.5 Axis Prismatic				
2.5 Axis Support				
Cut Tubular Intersections	-	-		
CAM Automation	-	-		
TURN Basic	-			
Flip Machining	-	-		
Post Advanced	-	-		
Profile NEST				
Model Masking Surfaces	-	-		
2.5 Axis Bootcamp				
2 & 3 Axis				
2.5 Axis Special	-	-		

Webinar	New Users	Limited	Intermediate	Advanced
Performance				
Molds	-	-		
Guitars	-	-		
Control Geometry				
5 Axis Indexed	-	-	-	
4 Axis Introduction	-	-		
4 Axis Advanced	-	-		
4 Axis Basic	-	-		
3 Axis Power	-	-		
3 Axis Advanced	-	-		
VisualCAD Shorts				
3 Axis Basic				
CAM in Edu				
2.5 Axis Power User	-	-		
2.5 Axis Advanced	-			
Scanned Orthotics	-			
Mesh, CAM & ART				
4 Axis Scan Data	-	-		
CAM in High School				
G Code Editor	-	-		
Profile-NEST				
2.5 Axis Pocketing & Profiling				

Webinar	New Users	Limited	Intermediate	Advanced
Common Support				
RhinoCAM in Edu				
Knowledge Bases	-	-		
Using VisualCAD				
Hole Machining	-			
Post Advanced	-	-		
TURN Basic	-			
Use of Selections				
5 Axis Machining	-	-	-	
Multi Sided Parts	-	-		
Parts Nesting				
Machining Molds	-	-		
Mesh Machining	-			
Feature Machining	-	-		
Cutting Tools				
3 Axis Best Practices				
CAM in Education				
Feeds and Speeds				
Coordinate Systems				
2.5 Axis Standard	-			
4 Axis Jewelry	-	-		
CAM in Edu				
CAM Automation	-	-		

Webinar	New Users	Limited	Intermediate	Advanced
Feature Machining	-	-		
4 Axis Furniture	-	-		
CAM in Education				

Reference Material

MecSoft places a wide range of reference material at your fingertips! You can choose from MecSoft Case Studies, Tech Blogs, Play Lists, Quick Start Guides, Online Web Help, Resource Hub, Community Forums and VisualServe Portal! Make a selection below.

MecSoft Reference Materials:



[MecSoft
Resource Hub](#)



[MecSoft
Play Lists](#)



[MecSoft
Tech Blogs](#)



[MecSoft
Case Studies](#)



[MecSoft
Forums](#)




[MecSoft
VisualServe](#)

Source Material

When your [CAMJam_2026.rar](#) archive is un-packaged, you will find the following source folders containing practice files, PDF guides and actual webinar source files. Refer to the following folder descriptions below:

CAMJam 2026






This is the top-level folder that contains all of your CAMJam 2026 source files:

Name	Date modified	Type	Size
 CAMJam 2026	6/15/2026 9:05 PM	File folder	

This is the contents of the Top-Level CAMJam 20xx Source Folder

CAMJam 2026 Folder

When you open the [CAMJam 2026](#) top-level folder you will find the following sub-folders. Also located here is the [CAMJam 2026 PDF guide](#). This guide will be your primary document for locating and accessing all of the MecSoft AMS Webinar training videos.

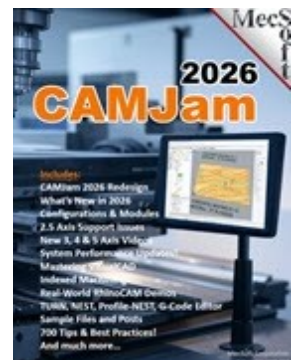
Name	Date modified	Type	Size
 Files Archive	6/13/2026 3:19 PM	File folder	
 PDF Guides	6/10/2026 8:47 AM	File folder	
 QuickStart & Intro Video Part Files	6/10/2026 8:57 AM	File folder	
 Webinar Source Files	6/13/2026 2:50 PM	File folder	
 CAMJam-2026.pdf	6/10/2026 2:47 PM	Chrome PDF Document	19,275 KB

This is the contents of the CAMJam 2026 Folder

CAMJam 2026 Video Guide

The [CAMJam 2026 PDF Guide](#) document contains the following materials:

- **300** pages
- **70** AMS Training Webinars w/Video Timestamp Links, Key Tips & Best Practices and Key Takeaways
- **398** Product Feature descriptions time-stamp linked to their respective What's New videos.
- **700+** Tips & Best Practices extracted from all 70 webinars.
- **Table** of all 70 webinars by Product Configuration.



CAMJam 2026 Guide

- **Links to:** Resource Hub, Playlists, Tech Blogs, Case Studies, Forums, VisualServe.
- **Some misc. videos** for VisualCAD.

Files Archive Folder

This folder contains all of your reference and practice files. Each folder is labeled according to its contents. The [Practice File Archive](#) folder contain more than 160 2D and 3D CAD geometry files in various neutral formats including STEP, IGES, DWG, and STL. These files can be imported into both Rhino and VisualCAD and can be used to practice your skills with [RhinoCAM](#) and [VisualCAD/CAM](#).

Name	Date modified	Type	Size
Library Files (.vkb)	6/10/2026 8:52 AM	File folder	
Misc. 4 Axis Parts	6/13/2026 3:12 PM	File folder	
Misc. 5 Axis Parts	6/13/2026 3:15 PM	File folder	
Misc. ART Files	6/12/2026 4:17 PM	File folder	
Misc. NESTing Parts	6/10/2026 9:50 AM	File folder	
Practice File Archive	6/13/2026 3:19 PM	File folder	

This is the contents of the Files Archive Folder

PDF Guides Folder

This folder contain all of the available PDF Guide documents for both [RhinoCAM](#) & [VisualCAD/CAM](#).

Name	Date modified	Type	Size
PPG Decoded Source Files	6/10/2026 8:46 AM	File folder	
RhinoCAM	6/13/2026 3:25 PM	File folder	
VisualCADCAM	6/13/2026 3:26 PM	File folder	

This is the contents of the PDF Guides Folder

QuickStart & Intro Video Part Files

This folder contains the START and COMPLETED RhinoCAM and VisualCAD/CAM source files used in the videos located in the [RhinoCAM 2026 QuickStart Playlist](#) and the [VisualCAD/CAM 2026 Playlist](#).

Webinar Source Files Folder

This folder has sub-folders containing the source files used in all 70 of MecSoft's AMS Training Webinars. It is important to note that while in most webinars we use RhinoCAM as the demonstration product, source files are available in both [RhinoCAM](#) & [VisualCAD/CAM](#) and that the tasks performed in the vast majority of the webinars can be identically performed in

VisualCAD/CAM. There are few exceptions where RhinoCAM is required such as any tasks related specifically to the RhinoCAM API.

Name	Date modified	Type	Size
About this folder.txt	6/10/2026 10:01 AM	Text Docu...	1 KB
20.26.04 AMS Webinar 2 5 Axis Support Issues	6/11/2026 11:26 AM	File folder	
20.26.02 Open Webinar What's New in MecSoft CAM 2026	6/11/2026 11:26 AM	File folder	
20.25.11 AMS Webinar Continuous 4 Axis of 3D Models	6/11/2026 11:26 AM	File folder	
20.25.10 AMS Webinar Indexed 4Axis of 3D Models	6/11/2026 11:26 AM	File folder	
20.25.09 AMS Webinar Machining 3D Models with 3 Axis Standard	6/11/2026 11:26 AM	File folder	
20.25.07 AMS Webinar Machining 3D Models with 2½ Axis CAM	6/11/2026 11:26 AM	File folder	
20.25.06 AMS Webinar Machining 2D Drawings in TURN	6/11/2026 11:26 AM	File folder	

This is the contents of the Webinar Source Filkes Folder

What's New in 2026

Link: <https://www.youtube.com/watch?v=u2TqbSTF6c4>

This webinar provides a detailed walkthrough of the major new features and workflow improvements introduced in RhinoCAM 2026 and VisualCAD/CAM 2026. The presentation focuses on automation, advanced 4-axis machining strategies, simulation performance, Deburring enhancements, post-processing updates, and overall productivity improvements. Throughout the session, the presenters also share practical machining tips and best practices for integrating these new tools into real-world CNC workflows.

Source Files: [\Webinar Source Files\20.26.02 Open Webinar What's New in MecSoft CAM 2026\](#)



Topic Index with Timestamp Links

Time	Topic / Section	Description
0:00	Introduction and Agenda Overview	Release overview and what's new in 2026
4:26	Five-Axis 3+2 Auto Roughing	Automatic indexed roughing setups based on stock/part analysis
7:21	4-Axis Extrusion Machining	Profile + Rail method for constant cross-section parts
12:38	4-Axis Extrusion Projection Machining	Extrude profile along rail then project onto 3D model

Time	Topic / Section	Description
16:37	2.5-Axis Automatic Deburring / Chamfering	Edge detection + automatic toolpath generation (works with ball mills)
20:28	GPU-Accelerated Tri-Dexel Simulation Model	5–10× faster cut material simulation (NVIDIA GPUs)
31:01	Fixture Support for Individual Setups	Assign different fixtures/clearances per setup
32:22	Arc Feed Rate Optimization	Reduce feed before/after arcs for better finish & tool life
35:19	Drill Point Sorting Between Operations	Start next operation at closest point to previous cut
37:32	Miscellaneous Enhancements	Flats-only output, fixed tool axis, angle limit handling
41:03	Post-Processor Enhancements	Python posts for drill banks, dual heads, non-standard formats
42:34	Expanded API Support	New functions for setups, operations, simulation, and Knowledge Bases
44:32	Live Demos (Main Features)	3+2 Auto Roughing, 4-Axis Extrusion/Projection, Deburring, etc.
1:10:36	Live Demos (Post-Processors)	5-axis G68.2, drill banks, dual heads, Holzher, WoodFlash, Flow Master
1:22:22	Conclusion & Release Timeline	Mid-March 2026 release

Key Tips & Best Practices Extracted

Here are the most valuable new capabilities and practical takeaways from the 2026 release:

- **3+2 Auto Roughing is a Game-Changer** — The new operation automatically analyzes the stock and part, determines the optimal indexing angles, creates multiple setups, and generates adaptive roughing toolpaths — all with almost zero manual input. Ideal for complex prismatic or semi-prismatic parts.

- **4-Axis Extrusion Methods Open New Possibilities** —
 - Extrusion Machining (Profile + Rail) is perfect for parts with constant cross-section (no need for a full 3D model).
 - Extrusion Projection Machining solves the long-standing limitation of features that extend above or below the rotary axis by projecting the extruded profile onto the actual 3D geometry.
- **2.5-Axis Auto Deburring Works with Ball Mills** — You no longer need special V-mills or chamfer tools. The new operation automatically detects edges and generates safe deburring/chamfering paths with full gouge checking.
- **Tri-Dexel Simulation is a Major Performance Win** — If you have an NVIDIA GPU (especially in Professional+ configurations), enable the new Tri-Dexel simulation model. It delivers 5–10× faster simulation with excellent accuracy — especially noticeable on complex multi-setup jobs.
- **Per-Setup Fixtures & Clearances** — You can now assign different fixtures and clearance distances to individual setups instead of applying one setting to the entire job. This is extremely useful for tombstone or multi-part fixtures.
- **Arc Feed Rate Optimization Improves Finish & Tool Life** — Reduce feed rates automatically before and after arcs (corners). This is configurable by arc length and radius and helps prevent chatter and extend tool life on high-speed finishing passes.
- **Drill Point Sorting Reduces Non-Cutting Time** — The new “Drill Point Sorting Between Operations” option makes the next operation start at the closest point to where the previous operation finished — a simple but effective way to shorten cycle time on parts with many holes or features.
- **Python Post-Processors Are Now Extremely Powerful** — 2026 significantly expands Python post support, including full drill bank control, dual-head machines, and non-standard G-code formats (Holzher, WoodFlash, Flow Master waterjet, etc.). Custom post development is now much more accessible.
- **Expanded API for Automation** — New API functions allow deeper integration with external scripts for setups, operations, simulation, and Knowledge Base workflows — great for shops building custom automation pipelines.

Key Takeaways

MecSoft CAM 2026 focuses heavily on automation, performance, and expanding 4-axis/5-axis capabilities while making daily workflows faster and smarter.

Biggest highlights of the 2026 release:

- This is one of the most significant releases in recent years, especially for users doing multi-sided work or running long simulation jobs.

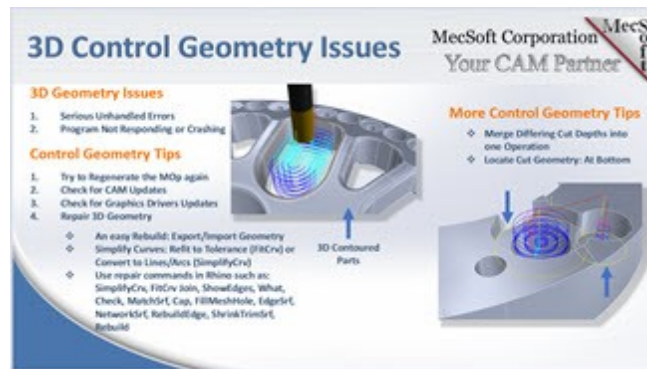
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- Use automated 3+2 roughing setups to reduce programming time.
 - Apply extrusion machining for faster and more flexible rotary machining workflows.
 - Leverage GPU acceleration to dramatically improve simulation performance.
 - Automate deburring operations to reduce manual edge selection.
 - Upgrade legacy posts using expanded Python post-processing capabilities.
 - Use expanded APIs to automate repetitive CAM workflows.

2.5 Axis Support

Link: <https://youtu.be/GO60xgibLg>

This is a **support-focused training webinar** that addresses the most common issues users encounter when programming 2.5-axis jobs in RhinoCAM and VisualCAD/CAM. It covers machining problems, post-processing errors, geometry/setup issues, CAM preferences, performance problems, and practical troubleshooting steps.

Source Files: [\Webinar Source Files\20.26.04 AMS Webinar 2 5 Axis Support Issues\](#)



Topic Index with Timestamp Links

Time	Topic / Section	Description
0:00	Introduction & Agenda	Overview of common 2.5-axis support issues
5:00	Machining Issues	Gouging, incorrect depths, poor surface finish, machine errors
12:00	Post-Processing Issues	Missing posts, wrong extensions, no G-code output
18:00	Geometry Setup Issues	Part orientation, stock definition, Work Zero problems
24:00	CAM Preference Issues	Tool libraries, machining preferences, simulation settings
32:00	System & Hardware Performance	CPU, GPU, RAM, Windows settings, driver recommendations

Time	Topic / Section	Description
40:00	Toolpath Generation & Simulation Performance	Tolerance impact, geometry complexity, TriDexel vs Voxel
48:00	2.5-Axis Specific Issues	Open loops, cut sides, arc fitting, drilling cycles
55:00	Troubleshooting Error Messages	Common errors and how to fix them
1:05:00	Support Resources & Best Practices	How to contact support effectively + final tips

Key Tips & Best Practices Extracted

Here are the most valuable practical takeaways from the webinar:

1. **Always save the actual G-code file** that caused the machine error (not just the internal toolpath).
2. **Use third-party G-code simulators** to verify posted code before running on the machine.
3. **Check the basics first:** Part orientation, stock definition, Work Zero, and stock visibility.
4. **For poor surface finish:** Loosen tolerances and step-overs during roughing; tighten only for finishing.
5. **Fix “Open Loops” errors:** Merge all control curves into single closed loops.
6. **Fix “Invalid Data” errors:** Ensure stock is defined and tool diameters match between roughing and re-roughing operations.
7. **Save preferences to a file** instead of the registry when working with multiple machines.
8. **Enable “Always post-process during toolpath generation”** to quickly view G-code via the G-code icon.
9. **Use Voxel simulation mode** for fast roughing previews; switch to Polygonal for best accuracy but longer processing and use TriDexel for final verification (requires NVIDIA GPU).
10. **Prioritize CPU clock speed** over core count for faster toolpath calculations.
11. **Reboot daily** and run RhinoCAM in “Real Time” priority in Windows Task Manager.
12. **For drilling issues:** Check the option “Always output drill cycles as linear motions” if your machine doesn’t support canned cycles.

13. **When contacting support:** Attach the part file, isolate the problematic operation, include the actual G-code file, and describe the exact error message.

Key Takeaways

This webinar is an excellent **troubleshooting guide** for 2.5-axis users. Most support issues fall into a few categories:

- Geometry/setup problems
- Post-processor and preference configuration
- Performance bottlenecks (hardware + settings)
- Common error messages that have simple fixes

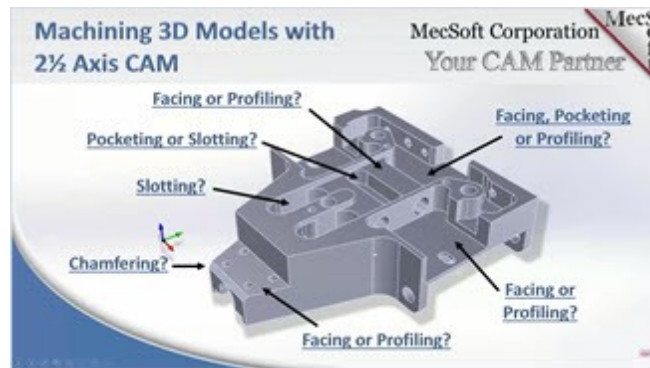
The biggest message: **Most problems are preventable** with proper setup, simulation, and documentation.

2.5 Axis Advanced

Link: <https://www.youtube.com/watch?v=8VCPIKtLXS4>

This webinar shows how to efficiently machine complex 3D models using 2½-axis strategies (profiling, pocketing, facing, slotting, drilling, chamfering) in MecSoft CAM. It demonstrates the advantages of working directly from a 3D model rather than just 2D curves, with smart use of cut levels, entry/exit control, and Trochoidal slotting.

Source Files: [\Webinar Source Files\20.25.07 AMS Webinar Machining 3D Models with 2½ Axis CAM\](#)



Topic Index with Timestamp Links

Time	Topic / Section	Description
0:00	Introduction & Agenda	Transition from curve-based to 3D model-based 2.5-axis machining
2:44	Geometry Requirements & Model Analysis	Part features (pockets, slots, chamfers), orientation, pre-planning curves
7:50	Setup and Stock Considerations	Bounding box stock, work zero alignment, pre-ground stock benefits
9:20	Profiling (Side Areas)	Open side machining with 19 mm flat end mill, step-over & cut levels
18:00	Facing (Open Pockets)	Island offset facing on open areas with 4 mm end mill
22:00	Pocketing (Roughing)	Closed pocket roughing with offset pattern

Time	Topic / Section	Description
25:00	Profiling (Finishing Open Areas)	Edge finishing with 3 mm end mill, refined entry/exit control
33:00	Profiling with Offset (Clearing)	Using step-over in profiling to clear open regions efficiently
39:00	Drilling (Access Holes)	Peck drilling for slot entry points
41:00	Slotting (Trochoidal)	High-speed Trochoidal slotting with ramp entry from drilled holes
52:00	Profiling (Final Trimming)	External feature trimming with 10 mm end mill
58:00	Chamfering	45° chamfer using V-mill on front edge
1:00:00	Cut Levels, Simulation, Reports & Post-Processing	Depth control, full job simulation, setup sheets, G-code output

Key Tips & Best Practices Extracted

Here are the most valuable practical tips from the webinar:

1. **Leverage the 3D Model** — Use the actual 3D geometry for accurate top/bottom depths and cut sides instead of manually creating curves for every feature. This saves time and improves accuracy.
2. **Add Curves Strategically** — Even with a 3D model, add 2D curves where needed to precisely control toolpath boundaries, especially for complex or open features.
3. **Profiling with Offset is Powerful** — Use the “step over” feature in profiling operations to clear open areas efficiently without needing a separate pocketing operation.
4. **Trochoidal Slotting for High-Speed Machining** — Use Trochoidal (high-speed) slotting with ramp entry from pre-drilled holes. Add a cleanup pass to reduce cusping.
5. **Control Entry/Exit Angles** — Set entry/exit to **zero angle** for clean, straight engagement in open areas. Use linear engagement (e.g., 4–14 mm) for better control.
6. **Pick Depth Accurately** — Use the “pick depth” tool on the 3D model for precise cut level definition instead of guessing.

7. **Facing for Open Pockets** — When traditional pocketing would leave unwanted fillets in open areas, switch to **Facing** with island offset for cleaner results.
8. **Drill First for Slot Entry** — Always pre-drill access holes before slotting to enable safe ramp entry and prevent tool damage.
9. **Cut Levels & “Distance as Specified”** — Set consistent depth per cut (e.g., 1–2.5 mm) and use “Distance as specified” to maintain uniform step-downs.
10. **Tool Diameter Rules** — Always choose a tool smaller than the smallest feature constraint (especially for pocketing and profiling inside tight areas).
11. **Simulation After Each Operation** — Run cut material simulation frequently with distinct colors per operation to verify material removal and catch collisions early.
12. **Pre-Ground Stock Saves Time** — If stock is pre-machined/ground, you can skip top facing operations entirely.
13. **Reports & Setup Sheets** — Generate reports for tool lists, setup sheets, and estimated cycle times directly from the Machining Job.

Key Takeaways

This webinar is excellent for users who want to **maximize 2.5-axis efficiency** on 3D parts without jumping straight to full 3-axis contouring. The biggest lessons are:

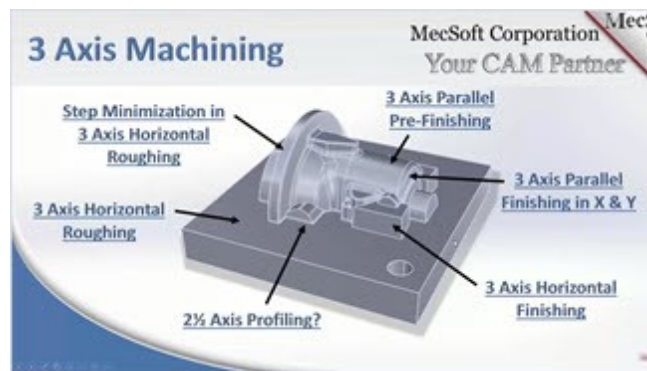
- 2.5-axis strategies (especially profiling + offset and Trochoidal slotting) can handle surprisingly complex 3D geometry when applied creatively.
- The 3D model itself becomes your best friend for depth control and feature recognition.
- Smart use of entry/exit control and pre-drilled access holes dramatically improves reliability and surface quality.
- Use 3D models to simplify setup and visualization
- Select cutting tools based on operation type and material removal goals.
- Combine standard 2½ axis operations for efficient machining workflows.
- Optimize cut levels to improve cycle time and tool life.
- Use simulation to verify setups before machining.
- Generate setup documentation to improve communication on the shop floor.
- This session bridges the gap between basic 2D curve machining and more advanced 3-axis work.

3 Axis Basic

Link: <https://www.youtube.com/watch?v=f-X6ask5p-A>

This webinar focuses on practical 3-axis machining of complex 3D models (specifically a mold core insert) using MecSoft CAM Standard (RhinoCAM / VisualCAD/CAM). It emphasizes efficient roughing, high-quality finishing, and proper handling of critical features like parting planes.

Source Files: [\Webinar Source Files\20.25.09 AMS Webinar Machining 3D Models with 3 Axis Standard\](#)



Topic Index with Timestamp Links

Times are approximate based on the webinar's content flow and agenda. Click any time stamp to jump directly to that section.

Time	Topic / Section	Description
0:00	Introduction & Housekeeping	Welcome, agenda overview, part introduction (mold core insert)
3:15	Geometry Requirements	Analyzing parting plane, fillets, drafted angles, and section views
9:00	Recommended Cutting Tools & Preferences	Flat end mills vs ball mills, corner radius tools, tool selection logic
18:00	Setup & Stock Considerations	Bounding box stock, alignment, masking surfaces, extra material
21:00	3-Axis Horizontal Roughing Demo	Offset pattern, step-over, stock to leave, avoiding parting plane

Time	Topic / Section	Description
34:00	Step Minimization in Roughing	Combining roughing + re-roughing in one operation for efficiency
38:00	3-Axis Parallel Finishing (Pre-finishing)	Offset curve containment, X & Y direction passes, progressive tool sizes
52:00	Parallel Finishing (Final Passes)	Tight step-over (5%), tolerance settings, surface quality focus
1:05:00	3-Axis Horizontal Finishing	When and why to use it for vertical walls/sidewalls
1:08:00	2½ Axis Profiling Discussion	Comparison and why it's often avoided for contoured parting planes
1:10:00	Final Parting Plane Cleanup	Corner radius mill + cleanup path for tangent fillets
1:25:00	Cut Material Simulation & Post-Processing	Full simulation, G-code output with arcs, wrap-up

Key Tips & Best Practices

Here are the most valuable practical tips from the webinar:

1. **Flat end mills for roughing** — They calculate faster and remove material more efficiently than ball mills. Only use ball or corner radius mills for roughing when you specifically need fillets.
2. **Step Minimization is a game-changer** — Set initial step-down at 50% of tool diameter, then enable step minimization at 25%. This combines roughing and re-roughing into one operation, saving significant time.
3. **Leave stock at the parting plane** — Never machine flat to the parting plane during roughing with a flat end mill. Leave ~0.025"–0.125" stock and finish it later with a ball mill or corner radius mill for clean tangent fillets.
4. **Parallel Finishing is usually faster than Horizontal Finishing.** Use it with offset curve containment and run passes in both X and Y directions (90° apart) for superior surface finish.
5. **Progressive tool sizes for finishing** — Start with larger ball mills (3/4") and step down to smaller ones (1/2" → 1/4") with tighter step-overs (down to 5%).

6. **Corner radius mill + cleanup path is excellent for final parting plane finishing** — it achieves tangent contact while clearing flats.
7. **Use masking surfaces** to protect holes and unwanted areas during roughing and finishing.
8. **Catch planes / containment** — Use offset curves or catch planes to control tool tangent at critical edges (especially important with different ball mill sizes).
10. **Avoid 2½ Axis Profiling on parts where contoured surfaces meet flat parting planes** — it cannot produce proper tangent fillets.
11. **Simulation best practice** — Use fine accuracy and distinct colors per operation. Pause and inspect critical areas (especially the parting plane).
12. **Post-processing** — Enable arc output (G2/G3) for smoother toolpaths. Default post-processor settings usually work well unless your machine requires specific adjustments.

Key Takeaways

This is an excellent foundational 3-axis webinar that teaches efficient, production-ready workflows for complex mold work. The biggest takeaways are:

- Smart use of step minimization and parallel finishing in two directions dramatically improves efficiency and surface quality.
- Proper handling of the parting plane (leaving stock + dedicated cleanup) is critical for mold-quality results.
- Flat end mills + ball mills + corner radius tools each have specific roles — don't overuse ball mills in roughing.
- Prepare 3D geometry carefully before machining.
- Match cutting tools to the desired surface finish.
- Optimize roughing parameters to reduce cycle times.
- Use step minimization to improve motion efficiency.
- Adjust finishing stepover values for better surface quality.
- Combine 2½ axis and 3-axis operations strategically.
- Validate all toolpaths with simulation before machining.

Index

- 2 -

- 2.5 Axis Machining
 - Chamfering 33
 - Cut Levels 33
 - Drilling (Access Holes) 33
 - Facing (Open Pockets) 33
 - Geometry Requirements 33
 - Model Analysis 33
 - Pocketing (Roughing) 33
 - Post-Processing 33
 - Profiling (Final Trimming) 33
 - Profiling (Finishing Open Areas) 33
 - Profiling (Side Areas) 33
 - Profiling with Offset (Clearing) 33
 - Reports 33
 - Setup and Stock Considerations 33
 - Simulation 33
 - Slotting (Trochoidal) 33
- 2.5 Axis Support Issues
 - 2.5-Axis Specific Issues 30
 - CAM Preference Issues 30
 - Geometry Setup Issues 30
 - Machining Issues 30
 - Post-Processing Issues 30
 - Support Resources & Best Practices 30
 - System & Hardware Performance 30
 - Toolpath Generation & Simulation Performance 30
 - Troubleshooting Error Messages 30

- 3 -

- 3 Axis Machining
 - 2½ Axis Profiling Discussion 36
 - Cut Material Simulation 36
 - Cutting Tools & Preferences 36
 - Final Parting Plane Cleanup 36
 - Geometry Requirements 36
 - Horizontal Finishing 36
 - Horizontal Roughing Demo 36
 - Parallel Finishing (Final Passes) 36
 - Parallel Finishing (Pre-finishing) 36

- Post-Processing 36
- Setup & Stock Considerations 36
- Step Minimization in Roughing 36

- C -

- CAMJam 2026
 - How to Get CAMJam 2026 9
 - Release Notice 3

- H -

- How to use this guide 11

- P -

- Post Processing
 - 2.5 Axis Machining 33
 - 3 Axis Machining 36
- Product Features
 - 2.5-Axis Auto Deburring Works with Ball Mills 26
 - 3+2 Auto Roughing is a Game-Changer 26
 - 4-Axis Extrusion Methods Open New Possibilities 26
 - Arc Feed Rate Optimization Improves Finish & Tool Life 26
 - Drill Point Sorting Reduces Non-Cutting Time 26
 - Expanded API for Automation 26
 - Per-Setup Fixtures & Clearances 26
 - Python Post-Processors Are Now Extremely Powerful 26
 - Tri-Dexel Simulation is a Major Performance Win 26

- R -

- Read This First! 11

- S -

- Source Materials 23

- T -

- Tips & Best Practices

Tips & Best Practices

2.5 Axis Support Issues 30

2½ Axis 33

3 Axis 36

- W -

Webinars

by Experience Level 17

by Product Configuration 12

What's New 26