

## **CAMWorks Setting Up a Custom Machine**

TITLE:	CAMWorks Setting Up a Custome Machine
DATE:	October 2018
SUBJECT:	CAMWorks, Technology Database, Customization
ABSTRACT:	Guide on adding and customizing machines in the Technology Database



## **Setting Up a Custom Machine**

1. Open the Technology Database and choose the corresponding machine you are trying to add. Be sure to select the correct units before choosing your machine.

G CAMWorks 2019 Techno	logy Database		- 🗆 X
$\equiv$	C Mill		Metric Inches 3
Mill	Machines	Strategies	Tool Cribs
	Mill - Inch (Default)	Features & Operations	Tool Crib 1 (Inch) Empty
🕨 💶 Tum	Mill 4 axis - Inch	T Multi-stepped Holes	Tool Crib 2 (Inch)
🔓 Mill-Turn	🗾 Mill 5 axis - Inch	Thread Mill	X Tool Crib 3 (Inch) Assemblies
EDM		Sort Operations	
		Map Mill Features	
III Tooling		Sefault Operation Parameters	
		Default Setup Parameters	
Turn Tooling		Notes and the strategies	
Feed / Speed		Multi-stepped Hole Configurations	
Settings			
(j) About			
CAMWorks®			
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www.hawkridgesys.com



2. Select which type of machine you would like to create.

S CAMWorks 2019 Tech	ology Database	— C	x נ
$\equiv$	C Mill	Metric Inch	ies ?
Mill	Machines Strategies	s & Operations	
🕒 🚅 Turn	Mill 4 axis - Inch Mill - Inch	epped Holes Tool Crib 2 (Inch)	
🛁 Mill-Tum	Thread Mill 5 axis - Inch	Mill 😥 Tool Crib 3 (Inch) Assemblies	
EDM	<b>₽</b> ↓ Sort Op	erations	
Mill Tooling	Map Mi	Operation Parameters	
Turn Tooling	Default	Setup Parameters	
Feed / Speed	To Berault	Peaure Strategies	
Settings			
About			
CAMWorks®			
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- 3. Once you have selected your machine you will have two options
  - 1. You can override the original or
  - 2. Creating a copy which will create a new machine





4. In this example I selected option 2 which created a new machine. When I select on the "Mill-Inch Copy" I can then select "Default Machine" to have that become my default machine. From here you can go through and set up the parameters of your machine.

SCAMWorks 2019 Techr	nology Database			- 0	×
	C Mill > Machines		[	Metric Inches	0
Mill	Mill - Inch (Default)     Mill 4 axis - Inch     Mill 5 axis - Inch	Save Copy Delete General Default Machine : Machine name :	✔ Mill - Inch Copy		~
Mill-Turn	II Mill - Inch Copy	Machine ID : Description :	Milling Machine Inch Sample Milling Machine		
EDM		Post Processor : Machine Duty : Default Feature Strategies :	M3Axis-Tutorial.CTL Medium duty Default		<b>v</b> <b>v</b>
Turn Tooling		✓ Subroutines Output Subroutines : (Part Mode: Output subroutines (Assembly mode:Output subroutines)	outines for feature patterns) for part instances and feature p	patterns)	
Feed / Speed	-	<ul> <li>Output multiple parts by</li></ul>	•		
Settings		Part : Specifications			>
		Turret Spindle Setup			> > >
CAMWorks®					
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5. Once you have filled out the machine parameters you can then click save and the machine name will update in the left-hand column.

S CAMWorks 2019 Techr	nology Database		- 0	×	
	C Mill > Machines		Metric Inches	•	
Mill	T Mill - Inch	Save Copy Delete	~		
Beeff -	🗾 Mill 4 axis - Inch	Default Machine :	Ø	11	
lurn	🗾 Mill 5 axis - Inch	Machine name :	Hasas VF3	)	
1	Lineare VE2 (Default)	Machine ID :	Milling Machine Inch	J	
Mill-Turn	nasas vrs (Delauit)	Description :	Sample Milling Machine		
Tedm		Post Processor :	M3Axis-Tutorial.CTL v	]	
_		Machine Duty :	Medium duty v	Į.	
Mill Tooling		Default Feature Strategies :	Default v	J	
Turn Tooling		Subroutines     Output Subroutines :     (Part Mode: Output subro	utines for feature patterns)		
		(Assembly mode:Output subroutines	for part instances and feature patterns)		
Feed / Speed		Tool :	۲		
		Feature :	•		
Settings		Part :	•		
About		Specifications  General	~		
		Horsepower :	30 hp		
		Avg. index time :	0.05 min		
		Indexing :	None 🔻		
CAMWorks®		4th & 5th axis move together :			
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6. You can then close the Technology Database and open CAMWorks. Open define machine and you will see your new machine listed. Highlight your new machine and click the "Select" button to make that your active machine.



7. Choose the Post Processor tab and make sure your correct post is highlighted and press the "Select" button to choose the post.



Machine				_		$\times$
Machine Tool Crib Post Processor Posting Setup Rotary Axis Tilt Axis Active post processor : C:\CAMWorksData\CAMWorks2019x64\posts\MUL\HAAS_VE3.ctl						
Available C:\CAMWorksData\CAMWorks	C:\CAMWorksData\CAMWorks2019x64\posts\MILL\HAAS_VF3.ctl Available C:\CAMWorksData\CAMWorks2019x64\posts\MILL\HAAS_VF3.ctl					
MILL\HAAS_VF3 MILL\HAAS_VF3 MILL\HH ITNC_530 MILL\HURCOKM3 MILL\MACH_III MILL\MACH_III MILL\MACH_III G54	post process	ors		Br S AF	owse Select PT CL	
Parameter		Value				
Machine Name	HAAS VF3					
Controller Type	HAAS					
Z Home	20.00000"					
Traverse Rate	250.00000"					
System License Number						
System License Expiration						
					Mare	
					More	
<b>-</b>		OK	С	ancel	He	lp