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**Zeman Technologies** 

## Did You Know? Shortcuts on Citizen & Miyano Lathes

There are "shortcuts" on Citizen & Miyano controls that can make the lives of programmers and operators easier. This Tech Tip will cover machine axes in Manual Mode, radii & chamfer comma features, addition & subtraction functions, and program synchronization.

**Axes in Manual Mode:** New to swiss machines? Not sure which axis is which or the direction it moves? Manual Mode provides an image of the machine axes (below) and indicates which direction is positive or negative.

Axis	MC COORD	Operation Ran	ige	Axis	Feed Direction
X1	9.96045	-0.07874 -	10.03937		
Z1	5.07088	-0.01969 -	8.09055		
Y1	1.24524	-0.03936 -	26.18110		
X2	24.88182	-0.07874 -	24.96063	-	
Z2	0.00002	-0.03937 -	8.11024		
Y2	0.00039	-4.80315 -	0.07874	34	

Tricky workpiece? Send our engineers a challenge here

Radii & Chamfer Commas: When programming radii and chamfers, add ',R' or ',C' to a linear line of code for the desired feature. The code below - with a

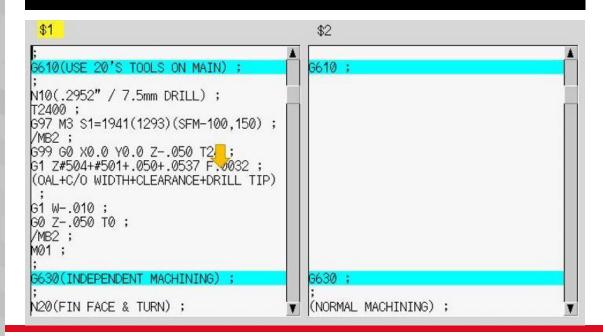
.008"cr insert - would produce a .018" radius at the end of the Z.500 line:

• G1 Z.500 F.004,R.010

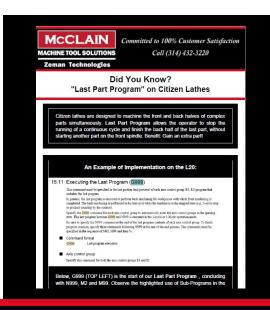
**Addition & Subtraction Functions:** Save time and perform arithmetic within your program. The code below shows an adjustment to a diameter that may be cutting differently than programmed due to tool pressure:

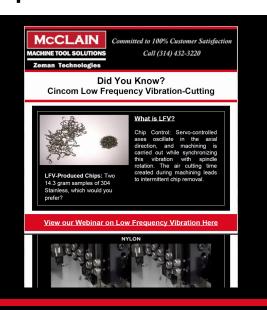
• G1 X.500+.002 F.004 - G1 Z.500 F.004 - G1 X.600 F.004

**Synced Program Operations:** While in EDIT mode, press "SYN DISPLAY" and the control will sync all machining patterns and wait codes. The code below shows that while N10 operation is completed on Channel 1, nothing is happening on Channel 2.



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