

# Mach4 CV Tuning Wizard Help Doc V0

Until updated this doc only serves as a holding place for the mcCvTuningWizard.mcs help document.

CV Tuning Wizard

Disable CV Feed Rate

Maximum Feed Rate  Units Per Minute  
Range 0-6000

Stop CV on angles >  Degrees  
Range 0-179

Adjust the sliders to increase or decrease the maximum feed rate and the maximum angle in which CV will be applied. The CV table will be linearized based on these two settings. Higher settings will result in smoother motion and shorter cycle times but less accurate tool paths. Lower settings will result in rougher motion and longer cycle times but more accurate tool paths.

Most machines will rapid at many times the rate they will ever make a feed move. Often the achievable feed rate is much lower than even the programmed feed rate as well. The poorer the acceleration (in motor tuning) is and the shorter the Gcode moves are the more obvious this becomes. The maximum feed rate should be set to the maximum feed rate the machine can actually achieve while holding the required tolerances throughout the execution of the Gcode program you are tuning CV for.