

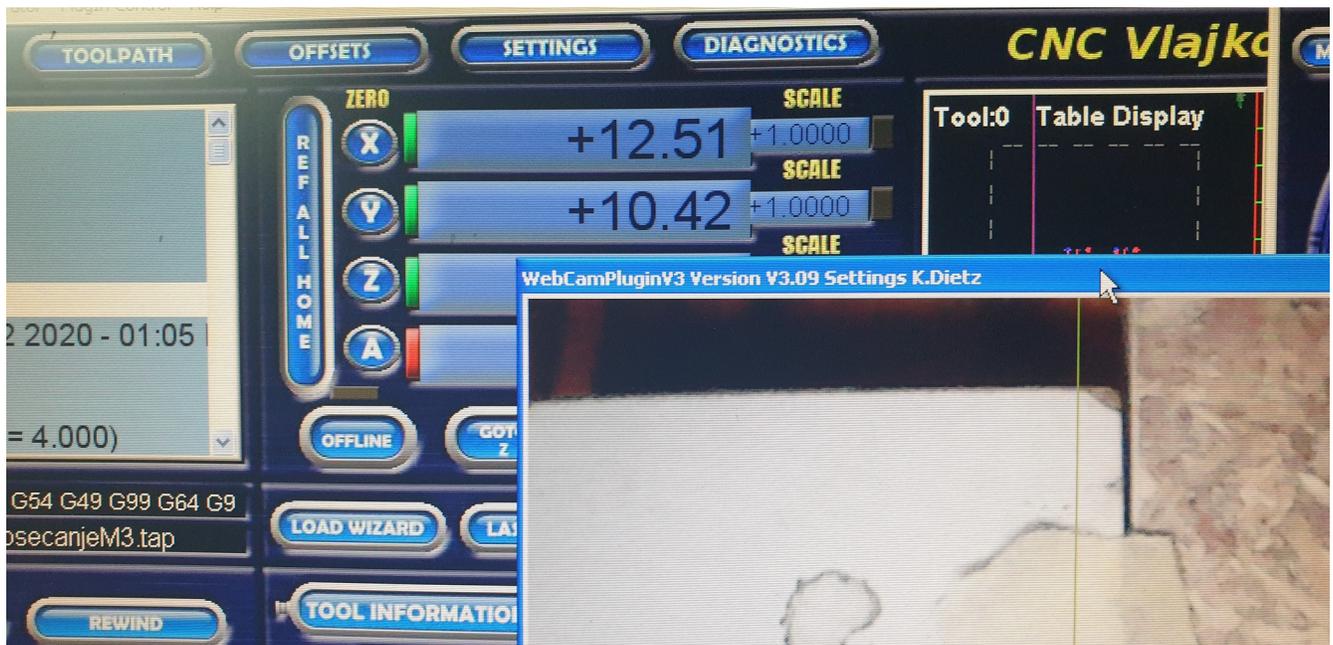
## “Gaining steps, Mach3, second try – air cut”

This time I tried to eliminate “long” step pulses that could be susceptible to some “undefined glitches” caused by who knows what.

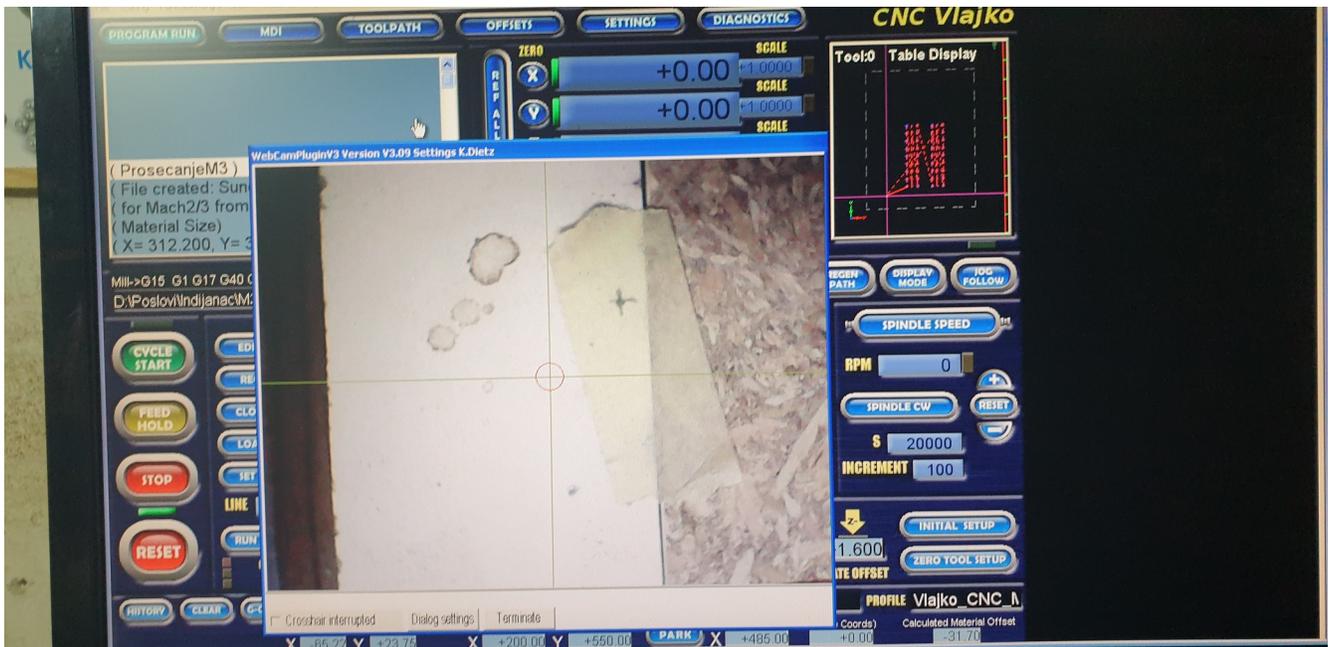
First run of a file, cutting just air, i.e. no load on the spindle motor, with motor switched on resulted in the following after returning to X0Y0:



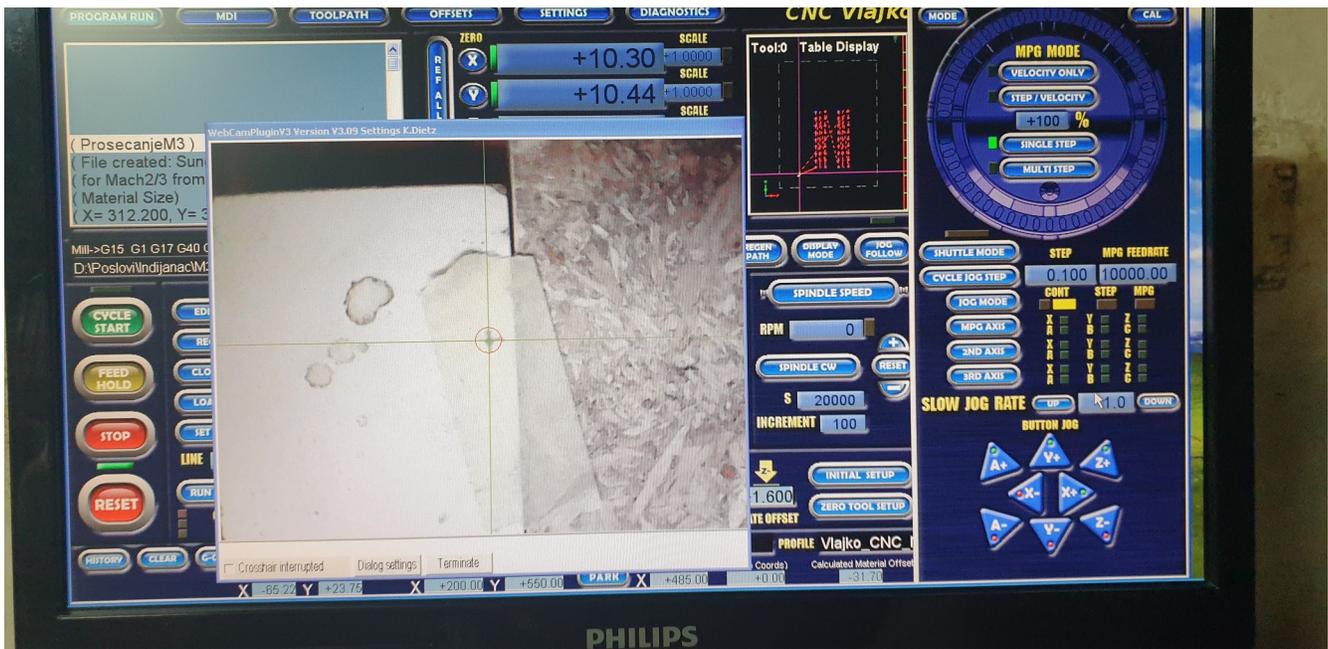
And after jogging to the marked Zero starting position the result was:



Second run, same file with shorter step pulses:



And the resulting “gaining steps”:



Configuration of computer:  
AMD Athlon (forgot the speed :-)  
2 Gig RAM  
ATI graphics adapter with 512k RAM  
Parallel port connection to BOB.

When the same file is run using GRBL on Arduino Nano, file finishes SPOT ON X0Y0. G-code sender on first run was bCNC, on second run UGS Platform. Checked with camera, viewer software is irrelevant.