

3D Printed DIY CNC - Dremel CNC Remix

A Aviran_N

VIEW IN BROWSER

updated 21. 10. 2022 | published 21. 10. 2022

Summary

DIY CNC Router

[Hobby & Makers](#) > [Tools](#)

Tags: [cnc](#) [cncmachine](#) [cnccrouter](#) [dremelcnc](#) [milling](#)
[cncmill](#) [arduinocnc](#) [grbl](#) [grblarduino](#) [grblshield](#)

This design was inspired by [Nikodem Bartnik's project](#) in order to create a machine as rigid and aesthetic as possible by using parts of 3D printers I already had. The result is much better than I expected!
For more photos and videos of the machine, visit [here](#).

Some notes:

- The links in the **BOM** will bring you to the most appropriate items for the printed parts. If you choose to order from another source - check the details and measurements carefully!
- The STL files are optimally oriented for printing, and have small additions designed to reduce the amount of supports - you may need to clean some parts and re-drill some holes after printing.
- Do not forget to replace the springs in the nuts of the lead screws with those in the BOM! This will greatly upgrade the performance of the Anti Backlash nuts. I also recommend using POM nuts - I replaced to these after

the first assembly and the movement is significantly smoother and quieter!

I have added a step file of the whole machine so that you can edit it according to the parts available for you.

If you find any problem with files or the BOM, please let me know!

Enjoy and share your CNC!

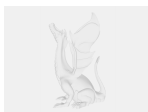
Model files



x_right_holder.stl



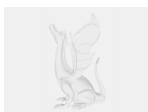
x_left_holder.stl



cable-chain-ends.step



cable-chain-ends.stl



x-cable-drag-chain-support-forprinting.step



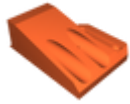
lead_screw_knob-x2.stl



x-cable-drag-chain-support-forprinting.stl



x_carriage.stl



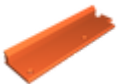
x_drag_chain_top_holder.stl



y_axis_dust_protector_bottom_rear_right.stl



y_axis_dust_protector_bottom_front_right.stl



y_axis_dust_protector_bottom_rear_left.stl



y_axis_dust_protector_bottom_front_left.stl



y_axis_dust_protector_rear_holder-x2.stl



y_axis_dust_protector_top_front_left.stl



y_axis_dust_protector_top_rear_right.stl



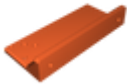
y_axis_dust_protector_top_rear_left.stl



y_axis_dust_protector_top_front_right.stl



y_drag_chain_top_holder.stl



y_drag_chain_bottom_holder.stl



y_rods_holder_right.stl



y_rods_holder_left.stl



z_endstop_cover.stl



y_motor_holder_left.stl



y_motor_holder_right.stl



y_motors_cables_holder.stl



z_carriage.stl



diy_cnc_avirann.step

License ©

This work is licensed under a
Creative Commons (4.0 International License)



Attribution—Noncommercial—Share Alike

- ✗ | Sharing without ATTRIBUTION
- ✓ | Remix Culture allowed
- ✗ | Commercial Use
- ✗ | Free Cultural Works
- ✗ | Meets Open Definition