



What Customers Need to Supply for Centroid Acorn

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The following information is directly from Centroid.

Purpose: Configure Windows 10/11 PC for use with CNC12. This Tech Bulletin is applicable to Acorn, ALLin1DC, OAK, and MPU11. The technical bulletin is based on the following videos:

<https://www.youtube.com/watch?v=7ExYAjItzC0>

https://www.youtube.com/watch?v=Akmw8ak_TIM

This technical bulletin covers the configuration of Windows 10/11 for CNC12. After you have completed the steps in this technical bulletin, follow the steps in the applicable install manual for installing and setting up CNC12.

Requirements

We suggest using an Intel NUC model #NUC10i3FNK / NUC10i3FNH (or newer) and a Touch Screen LCD display with 16:9 aspect ratio when using the Virtual Control Panel (VCP). (1920x1080 is the preferred monitor resolution when using the Virtual Control Panel.) You can purchase an Intel NUC from Centroid with all the CNC software preloaded with base mill and lathe CNC configurations ready to run here.....

But if you want to build, buy, or use your own CNC PC, here are the Centroid Primary CNC PC requirements:

1. The multi-core PC CPU must have at least a Single-Core (any one core of the multi-cores) minimum benchmark of 1500 for milling machines, 1000 for Lathes. You can look up a CPU's benchmark # using this website. AVOID all Atom "Mobile" processors or equivalents. Don't mistake the Multi-Core Benchmark for the Single-Core benchmark of a given CPU. Use the link below for a proper single-core rating.

<http://cpubenchmark.net/singleThread.html>

2. An SSD (solid state drive) We only recommend Intel or Samsung SSD's. Do not use mechanical hard drives.
3. Minimum 4 Gig's of RAM, more is better.

4. Windows 10 or 11 that is configured for CNC control use (the rest of this TB will detail how).
5. An Ethernet port (not a USB to Ethernet adapter!)
6. When using Centroid's Virtual Control Panel (VCP) a 1920x1080 HD LCD monitor is preferred. Other sizes with a 16:9 aspect ratio will work but screens may be shrunk to fit. Monitors with a 4:3 aspect ratio will not work.
7. Windows 10/11 should be set on USA English numbering system and the region should be USA so number formats (periods instead of commas) are correct for CNC12, and you will need a USA keyboard.
8. UPDATE Windows to the latest .net Framework. Many features of the CNC software use the microsoft .net framework tools. Run Windows update to get the latest .net framework.

PCs that Meet Centroid Requirements

A discussion of affordable PC's that meet the requirements on the Centroid Tech Support Forum.

<http://centroidcncforum.com/viewtopic.php?f=20&t=2794>

Thank you,
Sherline Products Inc.