

Hot Wire CNC Foam Cutter Parts List

This list includes the parts required to build the USB or the Parallel Port versions of the CNC foam cutter. The USB version is my latest build and will be about 30% cheaper than the older parallel port version. Using the older parallel port version is probably the simplest and cheapest way to use Mach3 or LinuxCNC.

All the parts in a convenient PDF with clickable links

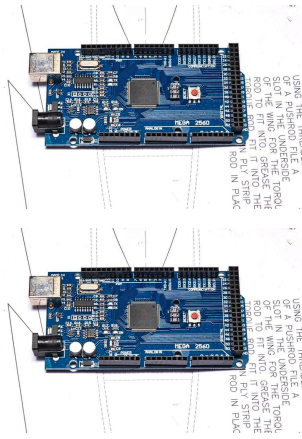
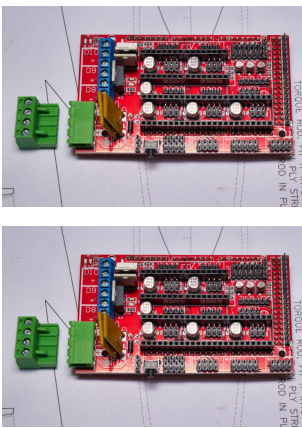
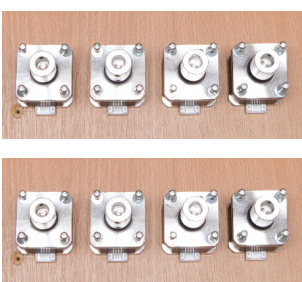
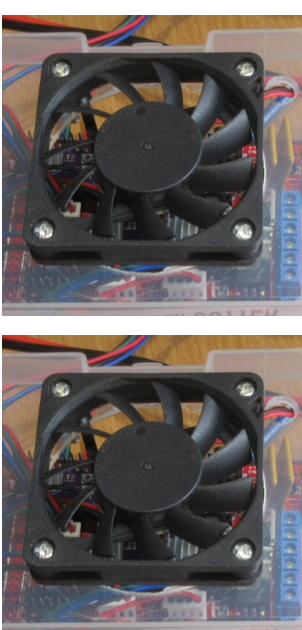
I haven't included any eBay links because they go out of date too quickly but it's worth a look.

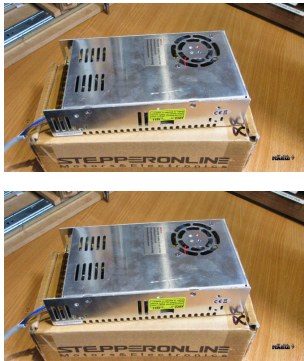
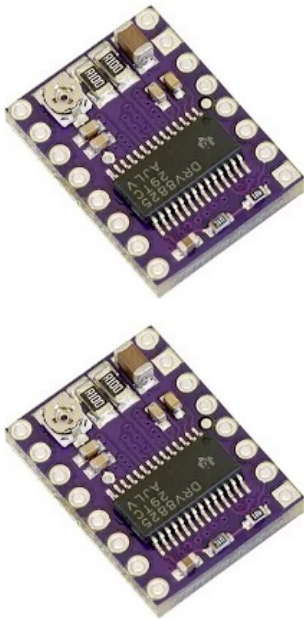


As well as Amazon and AliExpress have some good deals, shipping can sometimes take a while and make sure you check the total price including that. Here's the main CNC page for controllers and steppers <http://s.click.aliexpress.com/e/bfoSYeqU>

The [eBook](#) and [videos](#) have step by step instructions on how to build your own CNC foam cutter. There is a small charge for the [plans](#).

USB Version

Qty	Image	Description	Link
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1		<p>The Arduino Mega 2560</p>	<p>USA Price Check UK Price Check</p>
1		<p>RAMPS 1.4</p>	<p>USA Price Check UK Price Check</p>
4		<p>NEMA 17 Stepper Motors 0.9 -1.5 Amp x 4</p>	<p>Check the latest price</p>
1		<p>60 mm Cooling Fan</p>	<p>Check the latest price</p>

1		12 Volt Power Supply	Check the latest price
4		DRV8825 Driver Modules x 4	USA Price Check UK Price Check
8		600mm Drawer Slides x 2 pairs - 4 in total 450mm Drawer Slides x 2 pairs - 4 in total	Purchase from a local DIY store
4		Flexible couplers x 4 M10 x5mm for NEMA17 M10 x 6.35 for NEMA23	Get the couplers here NEMA17 are 5 mm x 10

4	 	10 x 1.5mm T-Nuts x 4	USA Price Check UK Price Check
40	 	M6 Cross Dowels Bolts 50mm and Barrel Nuts x40	Get the Cross Dowels here
4	 	10 x 1.5mm x 1000mm (cut to size) Threaded Rod x 4 If you prefer to use T8 Lead Screws M5 x 8mm couplers will be needed as well. 450mm for vertical 750mm for horizontal The step/mm will need to be re-calculated as well.	Purchase from a local DIY store. Alternative T8 lead screws UK Alternative T8 lead screws USA
1		12 mm MDF Moisture resistant or paint after the build.	Purchase from a local DIY store.

Parallel Port Version

If you decide to build the parallel port version then use one of the controllers below. The NEMA17's listed above can still be used. If you are building a larger machine then the NEMA23's listed below may be a better choice