

CNC Router requirements

Software

If the client has no software (Vectric Aspire, V-Carve, Fusion 360, ArtCam, etc), we do sell [RouterCam](#) software which is a plug-in for CorelDraw software (meaning if you buy this without CorelDraw software you will not be able to use it), if the client does not have [Corel Draw](#) software we also sell version 19.

All 3 phase routers in general, power cable requirements

1. Provide industrial 5 Pin 32A Plug with 4mm² flexi Cable that runs from the Industrial plug on the wall to the CNC Controller box (Required and Not Included). This length of this cable will be determined by where the client wants to position the blue controller box shown below - normally 10m is enough. The 5 pin red plug shown below is for 3 phase, the blue 3 pin is for the single phase routers. If the client cannot find industrial plugs then an isolator will work as well.

Router Controller box	Isolator
	

Single Phase industrial plug	3 Phase Industrial plug
	

2. From controller box to 7kw vacuum pump

Generic Flexi 5 Cores (4mm²) Power Cable, Rated 3PH 380V 32A min 10 meters.



3. From controller box to 3kw dust collector - 3 phase 4 core cable

Generic Flexi 5 Cores (2.5mm²) Power Cable, Rated 3PH 380V 24A min 10 meters



4. Spoil Board and Silicon <https://www.youtube.com/watch?v=z2Sw0qhlhdl>

- MDF (Medium Density Fiberboard) is the standard choice — ideally low-density MDF because it's more porous and allows better airflow - preferably 12mm to 16mm
- Thickness is usually 15–25 mm depending on your machine bed size and vacuum strength.

ATC (Auto Tool Changer) special requirements

1. Client needs to prepare an air compressor with an air hose long enough to reach the 8mm plastic air tube that feeds air to the router Spindle. So the client must provide the fittings to make the connection to this air hose possible.



Our 8 mm fitting looks like this one.

2. Two AAA Batteries - for the wireless presetter



Normal Router (Non - ATC router) special requirements

1. Distilled water 10 litres for the chiller
2. Extension cable, for powering the chiller because the chiller power cable is only 1 meter long and may limit physical placement options for the chiller.



The client can familiarize with the information below whilst waiting for the technicians to install their CNC router. All websites below are owned and controlled by AM.CO.ZA

1. Router Controller manual

<https://cncu.co.za/EasyRoute-CNC-Router/EasyRoute%20CNC%20Control%20Panel%20Manufacture%20Manual.pdf>

2. Router Table Vacuum Pipe Layout Chart

<https://cncu.co.za/EasyRoute-CNC-Router/EasyRoute%202030%20CNC%20Router%20Vacuum%20Table%20Pipe%20Layout.pdf>

3. RouterCam software Videos

<https://softwaretraining.co.za/topic/routercam>

