CNCDesign Limited

CNC MINI COIL WINDER MK4

INSTRUCTIONS

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS MACHINE.

CE

Version 1 – 01/01/2018

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CONTENTS

GENERAL INFORMATION

This manual has been compiled by CNC Design Ltd and is an integrated part of the product with which it is enclosed and should be kept with for future references.

This manual describes the purpose for which the product has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation or, before performing any kind of adjustment to the product and prior to any maintenance tasks. By following all the general safety instructions contained in this manual it will ensure both the product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by CNC Design Ltd to help illustrate the operation of the product.

Whilst every effort has been made to ensure accuracy of information contained in this manual, the CNC Design Ltd policy of continuous improvement determines the right to make modifications without prior warning.

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DECLARATION OF CONFORMITY

CERTIFICATE & DECLARATION OF CONFORMITY FOR CE MARKING

Company contact details:
CNC Design Limited
Unit 5S Lanvale Estate, St Columb Major Industrial Estate, Cornwall, TR9 6SF, England
Tel: +44 1637 881520 info@ukcnc.info

CNC Design Limited declares that their:
Desktop CNC Coil Winder Model: MK1x
Desktop CNC 200mm Coil Winder
Desktop Mini Coil Winder

comply with the Essential Requirements of the following EU Directives:
Machinery Directive 2006/42/EC
Electromagnetic Compatibility Directive 2004/108/EC
EU RoHS 2 Directive 2011/65/EU

and further conform with the following EU Harmonized Standards:
EN ISO 12100:2010
EN 61000-6-3:2007+A1:2011
EN 61000-6-1:2007

Dated: 17 February 2015
Position of signatory: Director
Name of Signatory: Sean Hegarty
Signed below:
on behalf of CNC Design Limited

SPECIFICATION

The CNC Design Ltd policy of continuous improvement determines the right to change specification without notice.

Dimensions of base plate (L x W)	210mm x 210mm
Weight	4Kg
Maximum feeder travel	40mm
Maximum Stepper motor RPM	1500 RPM (800 RPM recommended MAX)
Maximum bobbin diameter	100mm
Wire range	0.02mm-0.3mm
Feeder max resolution	0.0125mm

WARRANTY

12 months Return to Base warranty is offered all assembled machines. This is on a Return to Base policy which means the customer will be liable to pay for the shipping of the faulty parts back to us and we will be liable for the cost of replacing and shipping back to the customer.

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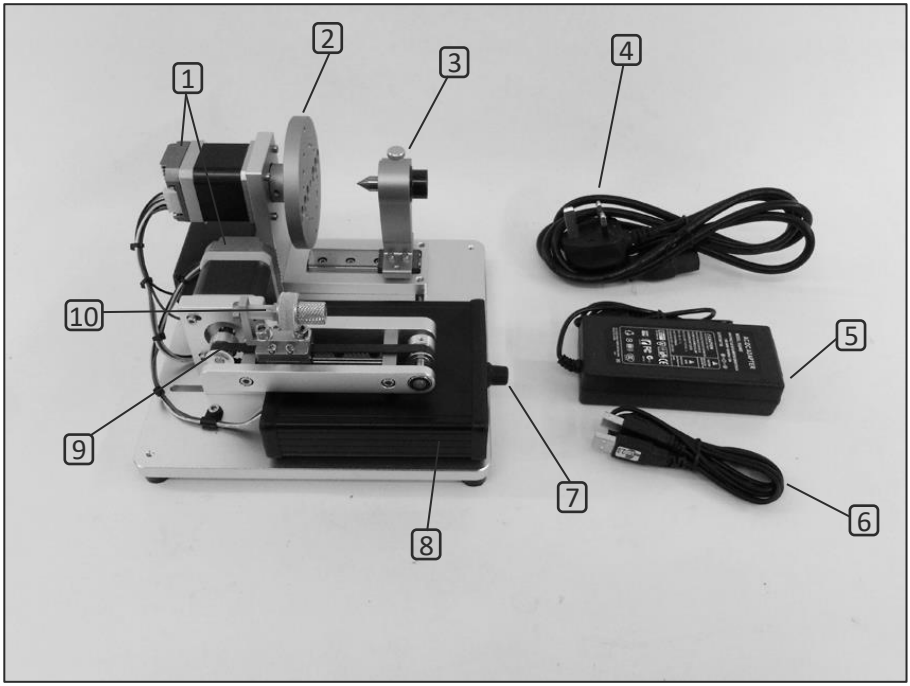
GETTING TO KNOW YOUR COIL WINDER



1	Integrated Stepper Motors	**6**	USB Lead
2	Bobbin Plate	**7**	Manual Wind Control
3	Tailstock	**8**	Controller Box
4	UK IEC Lead	**9**	Feeder Belt
5	24v Power Supply	**10**	Felt Wire Tensioner

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OPERATION AND USE

The Mini Coil Winder has 2 sockets on the side of the controller box and an isolated 24v DC power box.

The connection in position 1, is the optional limit switch and emergency stop input.

The dial in position 2, is the manual speed control, to use the Manual Speed Controller you still need to first run up the software and choose Manual Control.

The machine is supplied with a USB A-B lead. Connect the B plug side into position 3 as shown in the picture.

The final connection in position 4, is the power supply that came with your machine. With the Mini coil Winder we supply a 90v-240v AC input and 24V 3A DC output power supply and a UK IEC lead.
If you are outside the UK then you can either cut the UK plug off and fit a plug to suit your AC outlet or use an IEC lead that you may already have around the house.

Please note that the controller board is powered from the 5V USB socket on your computer. The motors on your machine are powered from the 24V DC Power Supply.

The green LED on the front of the controller box shows that we have power from the USB port to the controller board.
Each motor has a blue LED on the back of them that will light up when the 24V DC power is switched on.

GENERAL INFORMATION

A Larger document with clearer instructions is located on the memory stick supplied.

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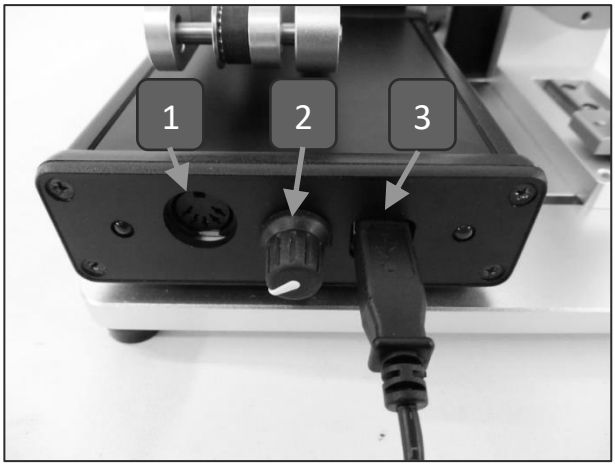
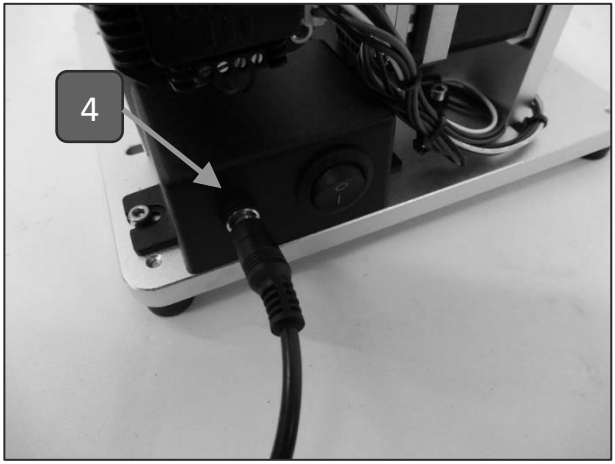
OPERATION AND USE





1	Connect Limits and Emergency stop *(Optional)*
2	Manual Speed Controller
3	Connect USB Lead
4	Connect 24V 3A DC Power Supply

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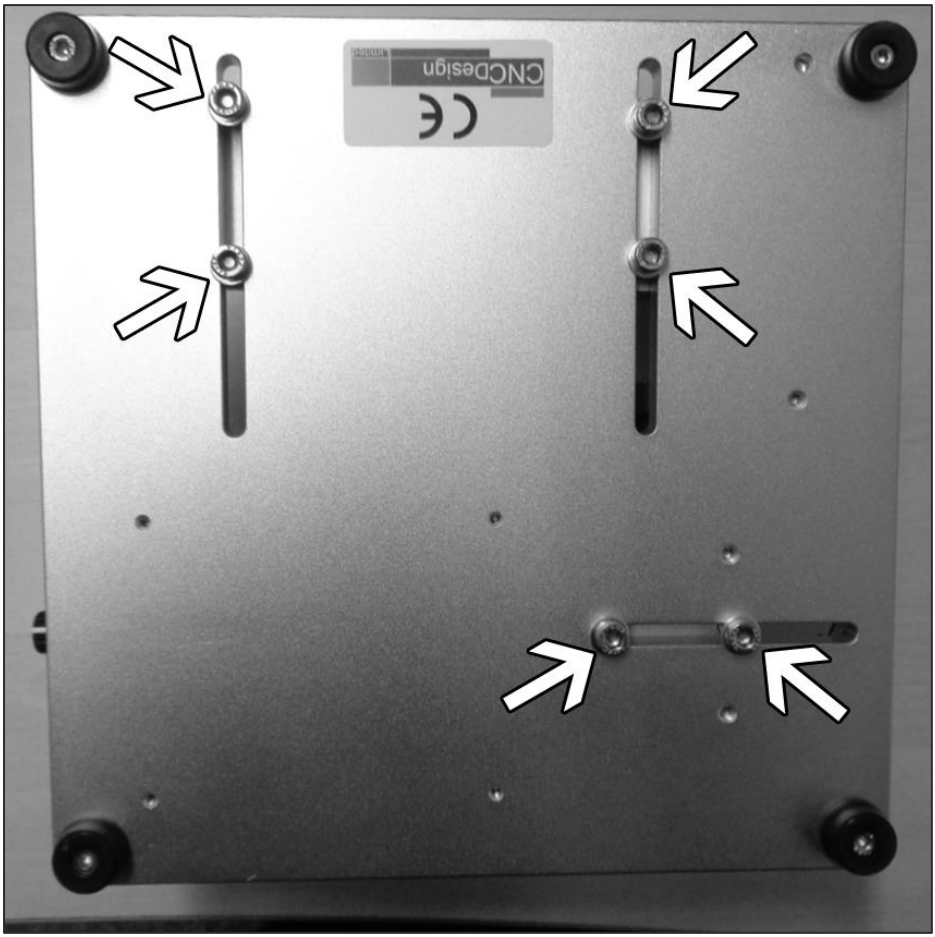
OPERATION AND USE



Loosen off the bolts above to adjust the feeder and bobbin to your preference.

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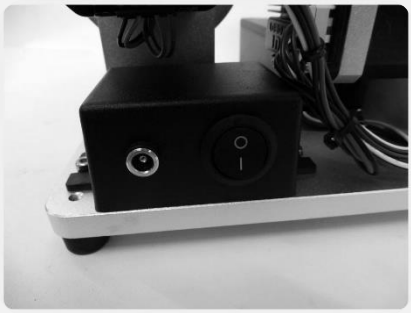
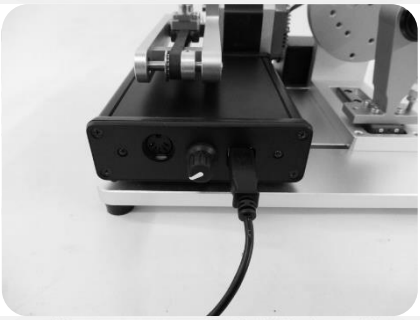
OPERATION AND USE

Make sure the DC power box is switched off before connecting.



Connect the USB lead. Then plug the USB into the computer.



Now plug the power supply's DC jack into the DC power box and turn on via the switch.

All complete and ready to run up the software and test.

GENERAL INFORMATION

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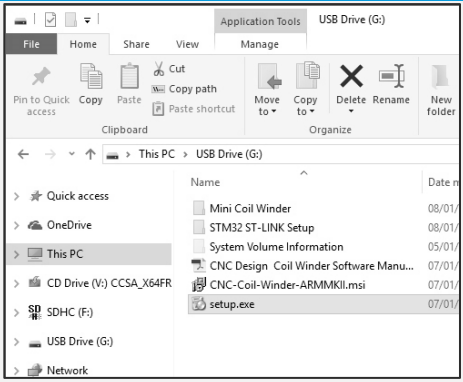
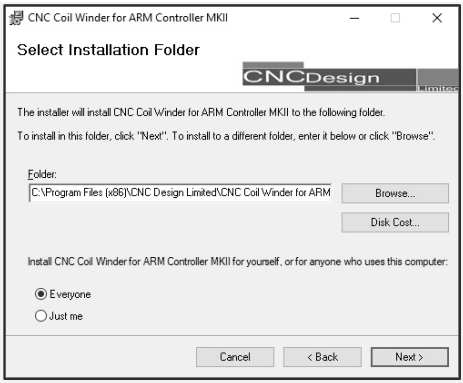
INSTALLING SOFTWARE

Insert the enclosed USB stick into your computer, browse to the device and run setup.exe.



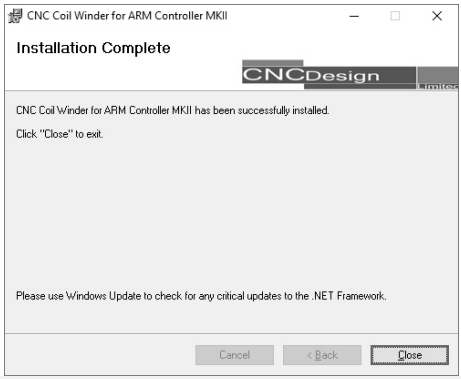
Proceed through the wizard.

Here you can select the installation folder and choose to install this for multiple users or a single user.

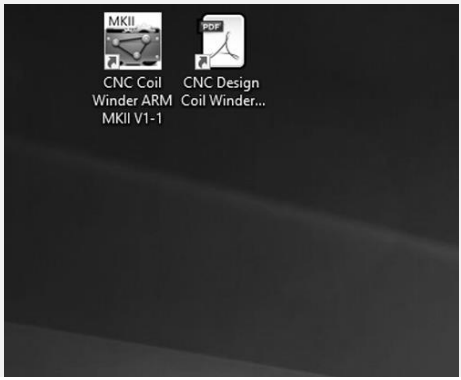


INSTALLING SOFTWARE

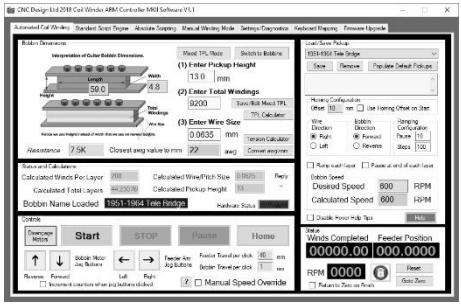
After installing the software click close.



Browse to your desktop for a new shortcut as shown.



All finished and ready to be used with your Coil Winder.



SAFETY WARNING

Keep hands clear of moving parts during operation.

Ensure the bobbin is attached securely to the plate and the tailstock is fully locked down before operating.

Make sure the power is switched off before connecting the power supply to the DC power box.

MAINTENANCE

The machine has been designed to be low maintenance.

Your machine has been delivered dry as such to keep the machine as clean as we can when assembling.

Any moving parts such as the feeder and tailstock rails need to be lightly greased periodically depending on use.

Check the tightness of all nuts and bolts.

CONTACT DETAILS

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