

i2R B Series Assembly







BG Precision Version 2.0 July 2025



Agent and Appointed Reseller for Australia and New Zealand

BG Precision PTY LTD

Unit 1/82 Brunel Road

SEAFORD

3198 VIC

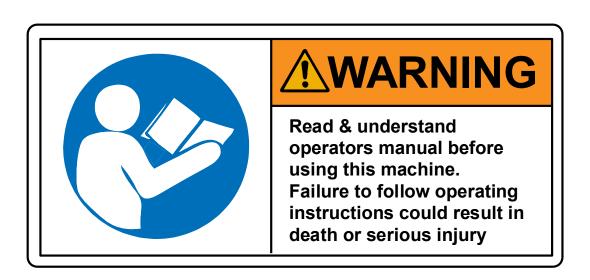
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Before using/powering on the machine, the device should be carefully checked to make sure all connections are secure, and the device is technically sound as highlighted in this user manual.





Ensure You understand
the safety considerations
of a machine provided
in the open configuration
without a safety
enclosure







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1 Introduction

Thank you for purchasing your CNC system from i2R CNC AUSTRALIA / BG Precision PTY LTD. This manual is a general introduction to CNC and specifically how to use the i2R CNC with UCCNC.

Firstly, please inspect the machine and all components after delivery has been received. Please check and ensure all aspects of the machine and associated extra items are in good condition and there is no evidence of damage or wear to any components due to the shipping process.

Please ensure you read all the operational manuals for this CNC machine prior to attempting to use the system. Throughout this manual there are references to "A Trained Operator" or "Trained and Experienced personnel". These are defined as follows:

All persons that use, or comes into contact with the CNC system MUST:

- understand what a CNC router/mill/laser is and can do
- read and understood the content of this user manual prior to using the system
- be able to always exercise control of the CNC system
- follow all the guidelines presented including the use of appropriate PPE
- seek further instruction if anything is unclear
- be sure that you have understood these instructions completely

Responsibility of use or misuse belongs to the end user. I2R CNC AUSTRALIA / BG Precision PTY LTD and its affiliates accept no responsibility for use or misuse by the user. If you may not be able to use this product properly, we recommend that you do not begin use or must cease use immediately.

This manual was not intended to cover every facet of machine operation. This manual serves to provide the information needed to safely operate and maintain the CNC system. This manual has been designed to be used as an instruction tool as well as a reference tool for everyday work. Step by step instructions are provided where possible to help all levels of users understand the machine.

NOTE: Important aspects of machine use and best practice are highlighted and should be adopted where possible to maximise the machine tool life and performance. It is VERY IMPORTANT that all personnel read and understand the safety chapter BEFORE operating the machine. All Warning and Caution notices must be noted before interacting with the machine.

If there are any further questions after reading and understanding the manual, or if anything is not clear, please contact us via email, at info@i2rcnc.com.au



2 Receiving the machine

In the case where a machine is delivered by a third party then EXTRA care is needed to ensure the machine is handled correctly.



The machines are crated in cardboard covering.

Please handle the machines with extreme caution and only use forklifts to move the crated machines on their pallets. Figure 1 shows what a B-Series packaging. Figure 1 shows inside the i2R packaging. The steel stand and the toolbox are an optional extra with the machine and will only be packaged together if purchased.



Figure 1: Scope of crated machine delivery



Figure 2: i2R Series-B CNC with box cover removed and ready for lifting



3 Machine assembly once delivered

Failure to read and understand all the assembly and setup instructions before attempting assembly may result in serious injury.



Once you have verified the machine and their contents are 100% okay and damage free after transport then you can begin the setup process.



i2R-CNC

Instructions for assembly Model Number:

B22 / B23 / B24



Please note the machine stand, Toolbox and laptop stand are optional accessories and are not included as standard in your purchase.

Packaging contents for the i2R CNC

Remove all contents from shipping boxes. Do not discard carton or packing material until assembly is complete. Accessories commonly ship inside machine or stand packaging and can be easily overlooked.

The steel machine stand, Toolbox and laptop stands are an optional accessories with the machine. If you have purchased this part, then please proceed through the assembly steps if not ignore items marked with red star and skip to section 3.5





Parts List Tools needed Hex key M3x20 M5x10 M5x25 **M3x6 Shoulder Bolts M8** x10pcs х6рсs x8pcs x2pcs x2pcs M6x50 M6x55 M6x16 M10x20 M10x45 x30pcs x10pcs x16pcs x1pcs x4pcs 1~2 friends M6 NUT M₁₀ NUT **M6** M₁₀ M10 x4pcs x24pcs x24pcs х6рсs x2pcs

Tools required for assembly:

#2 Philips-Screwdriver

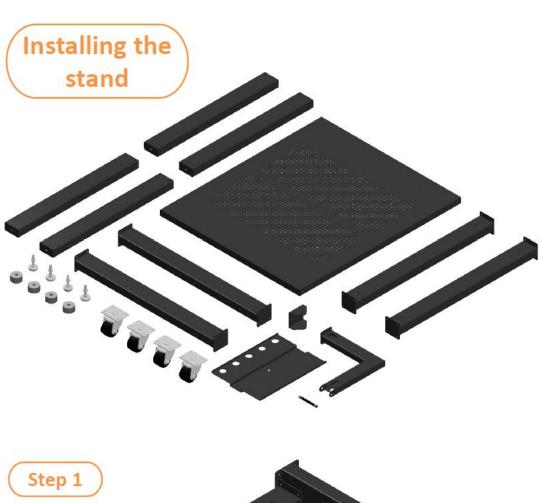
2.5mm, 4mm and 5mm Allen key

Spirit Level



SETTING UP 12R B-SERIES MACHINE STAND 3.1





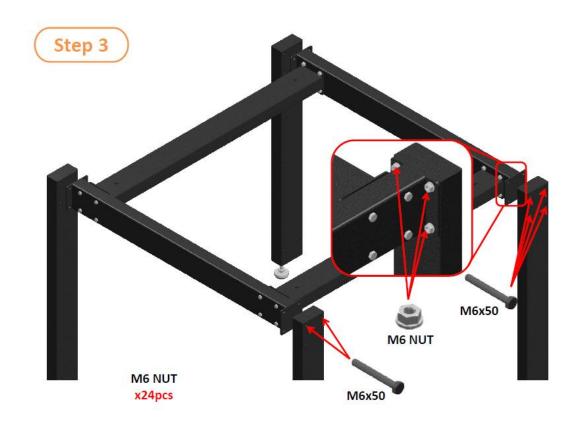


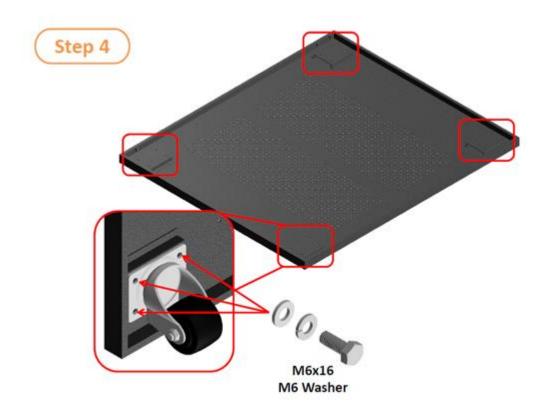




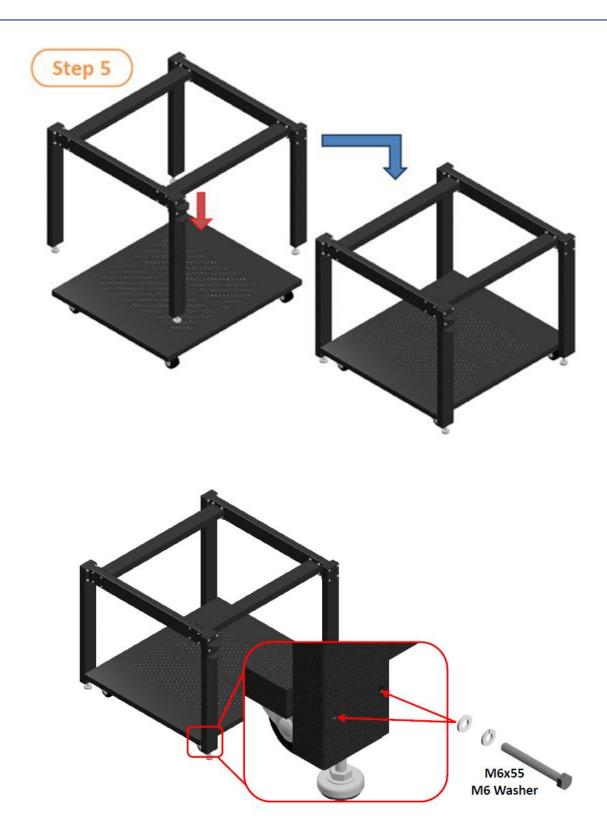








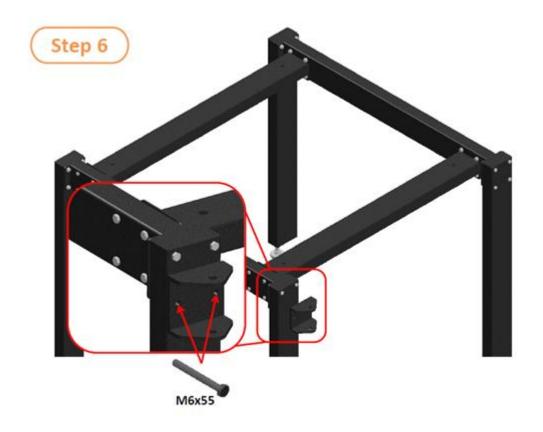


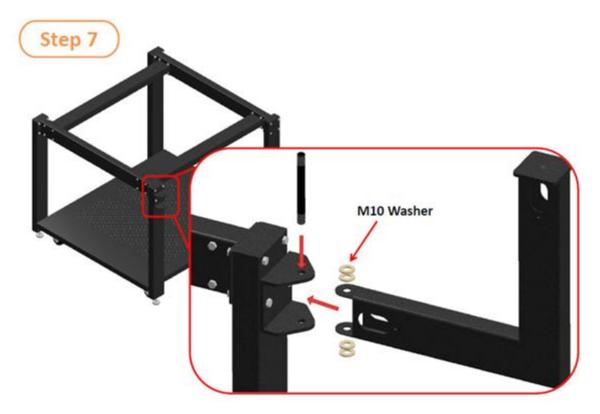




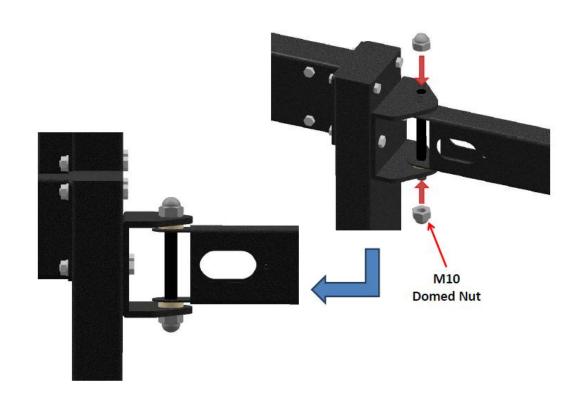
SETTING UP I2R B-SERIES LAPTOP STAND 🌟 3.2

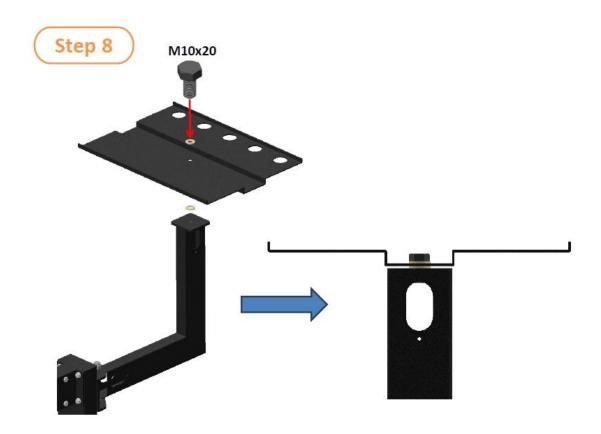




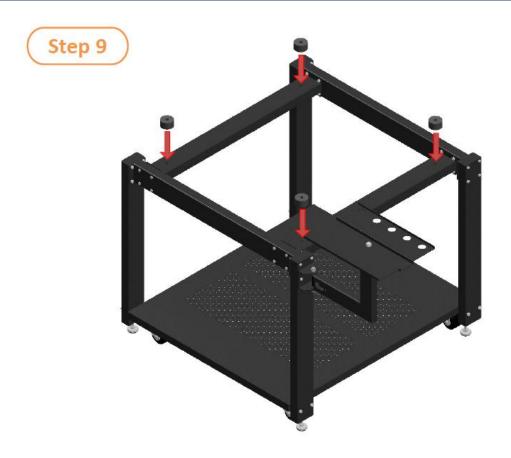








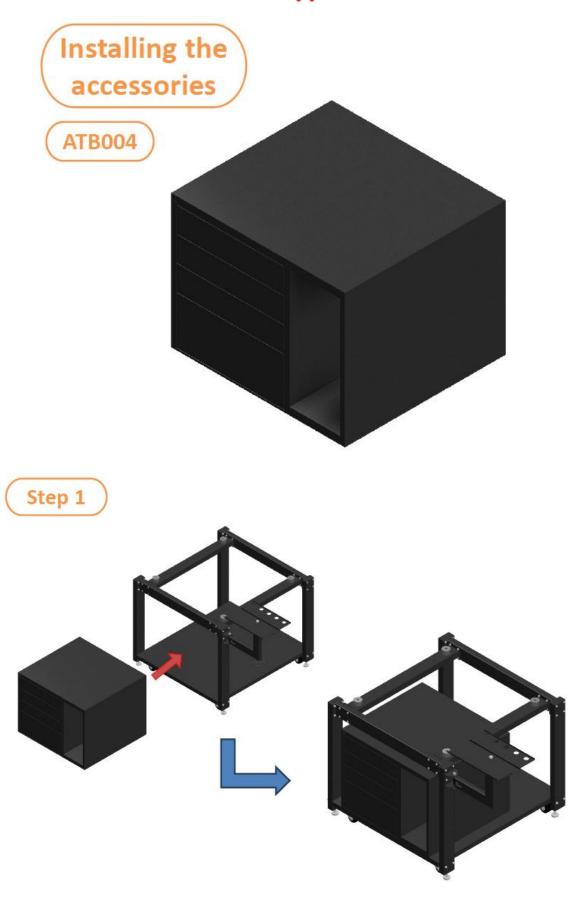




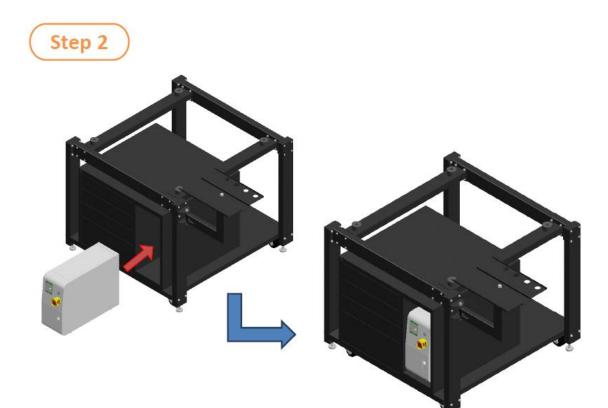


3.3 COMBINING THE TOOLBOX AND STAND











3.4 COMBINE THE MACHINE AND STAND ASSEMBLY

Installing the router table on the Stand:

The CNC router table assembly is heavy. Please use a secure means and use caution when lifting onto the stand. At least 3-4 able bodies persons are needed to lift the machine onto the stand.

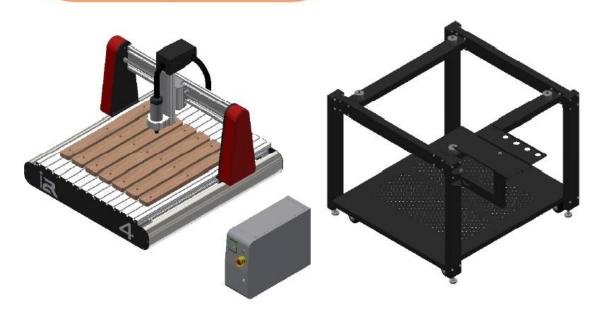


To avoid damage, be careful to never lift the router by the gantry. Always lift the router under the T-slot table or under the steel frame.



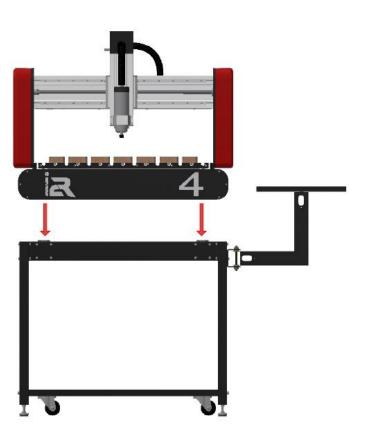
- 1- If using a forklift, keep forks under the steel frame to avoid damaging the wiring and mechanics of the machine.
 - a. Place a scrap piece of lumber beneath the router assembly and carefully slide forks beneath the steel base.

Combine the machine assembly and stand





Step 1









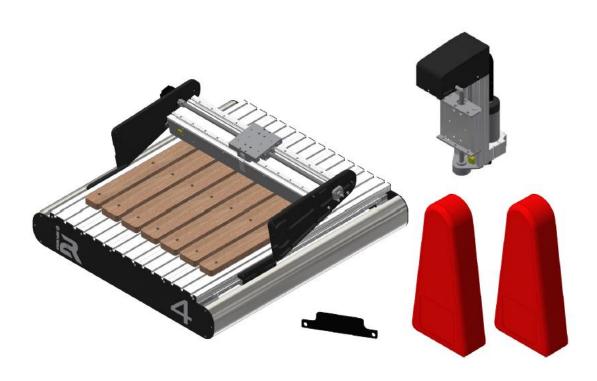


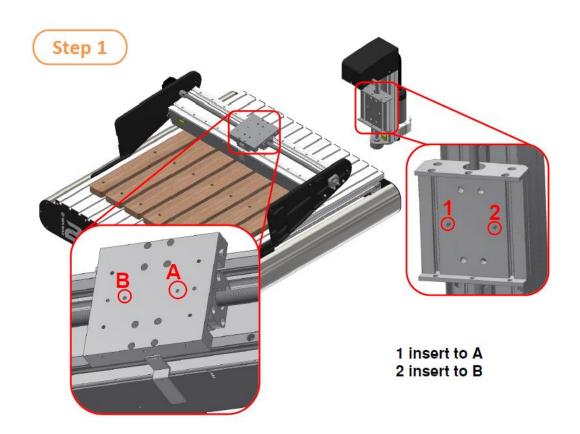
Move your CNC to the desired location, Place level on the router table, then level the assembled machine by adjusting the levelling feet. Be sure to level the machine in all directions.



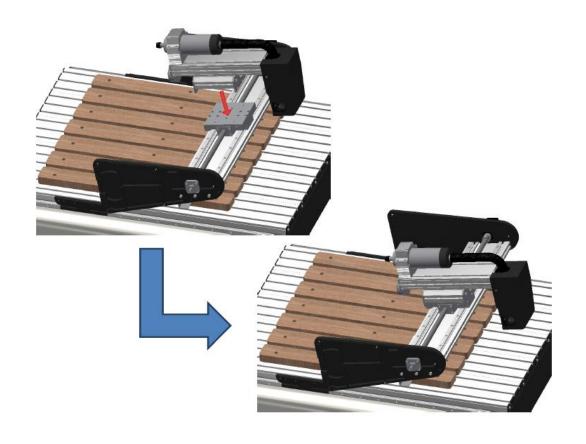


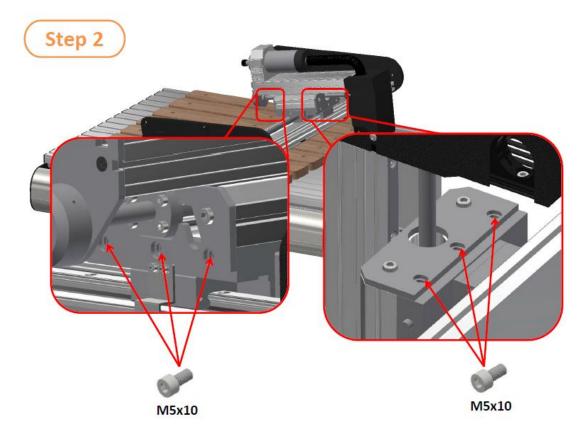
3.5 SETTING UP THE 12R MACHINE



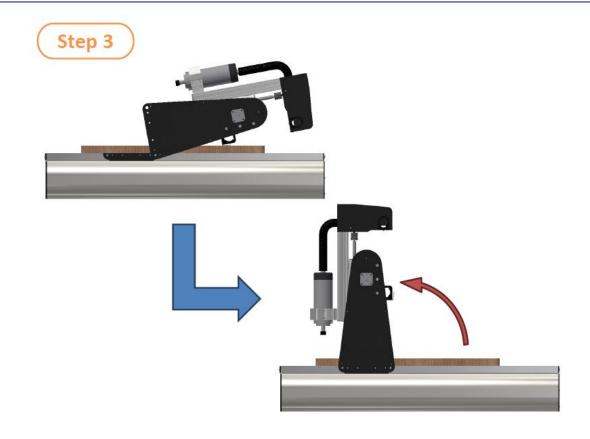


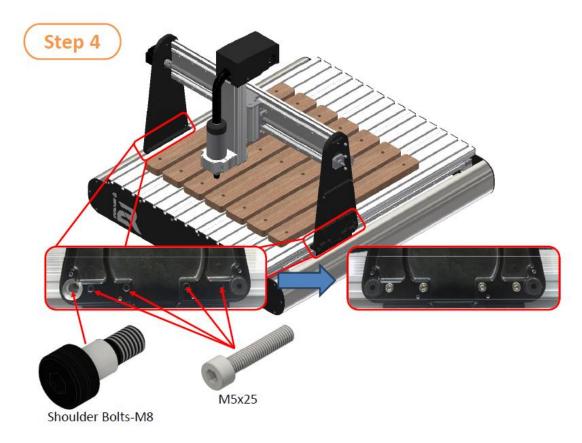




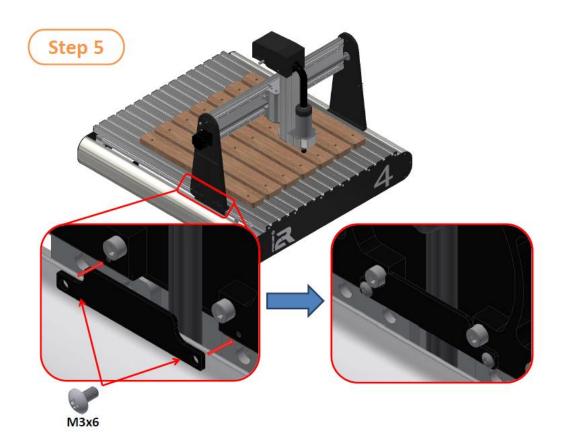




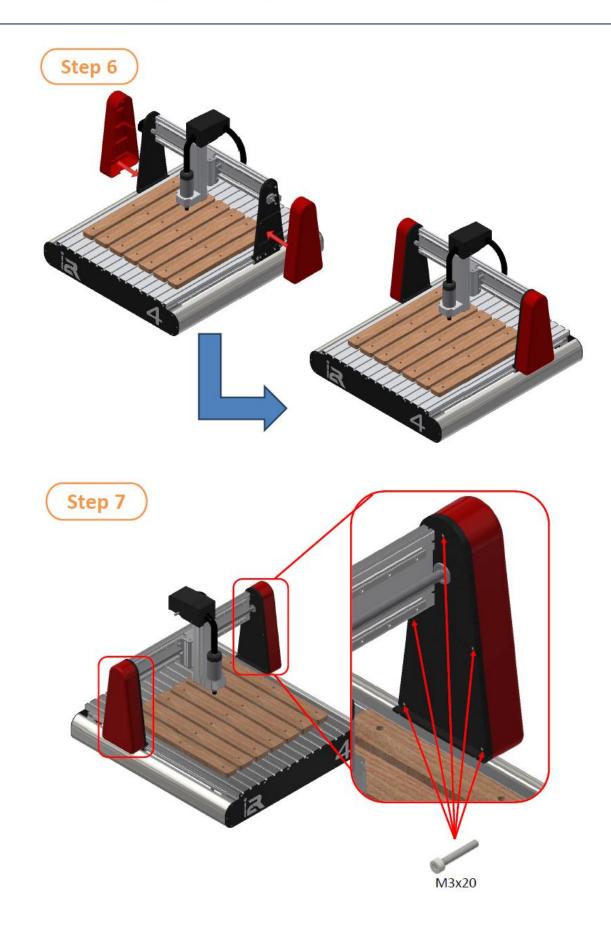














3.6 Final Mechanical Setup Preparation

Once you have unpackaged your i2R CNC router and located it on a bench you have chosen or the i2R stand as per the above steps, it is time to connect the machine and control system together in preparation for first steps.

- 1) Locate it on a stable bench (as per the above steps)
- 2) Put the controller near the machine on the same bench (or under machine on i2R stand)
- 3) Locate and turn on laptop / PC to control machine next to the controller (see Figure 3)

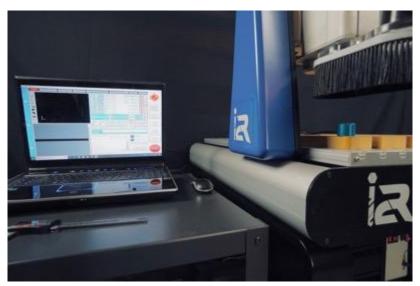


Figure 3: Locate control PC near to machine and control box

3.7 FIRST CONNECTION STEPS

The following steps should be carried out to ensure safe setup and operation of the machine. At all times inspect all connectors and anything you are handling for damage or any sign of mishandling. For more information on Electrical Connections refer to the main i2R CNC Manual.

Be sure to position the electrical cord through the back of the stand safely, so it will not be run over by the castors and to prevent tripping hazards.







Figure 4: Cable summary out of control box

- 1) There will be 3 cables coming out of the control box (control box is identified in Figure 4).
 - 2 cables will connect to the machine as shown in Figure 5
 - Carefully seat these cables (there is only one correct way to seat connectors)
 - Carefully tighten the connectors and careful not to cross thread the locking part of the connectors.

WARNING: NEVER CONNECT OR DISCONNECT THESE CABLES WHEN THE CONTROL BOX IS POWERED ON MAGINATION IN THE CONTROL BOX IS POWERED ON THE POWERED ON THE POWERE



Figure 5: Connections to the back of the machine



- 2) Check the power button (shown in Figure 6) on the front of the controller box
 - The power switch should be to the left with no light indicating it is powered OFF!
 - NOTE Figure 6 shows switch in the OFF position
 - Switch OFF before plugging into mains supply



Figure 6: Power button and estop on the controller

- 3) Plug in the 3-pin plug powering the control box into the AC wall socket outlet.
 - Ensure the connection has RCD and standard domestic electrical protection installed



- Inspect the plug for any sign of damage
- Do not plug into a live socket
- Turn on AC power at the plug
- 4) Turn on the mains controller switch
 - Figure 7 shows the Power button illuminated and on
 - The switch should light up (you might hear a small clunk from motors engaging)
 - You should see the Ethernet connector on the front of the white control box blink green.
 - Connect the Ethernet port to the control PC (connection sequence not important)
 - You are now ready to setup the UCCNC controller and run your i2R CNC router!





Figure 7:Turn on the power button and plug in Ethernet connector into PC and controller

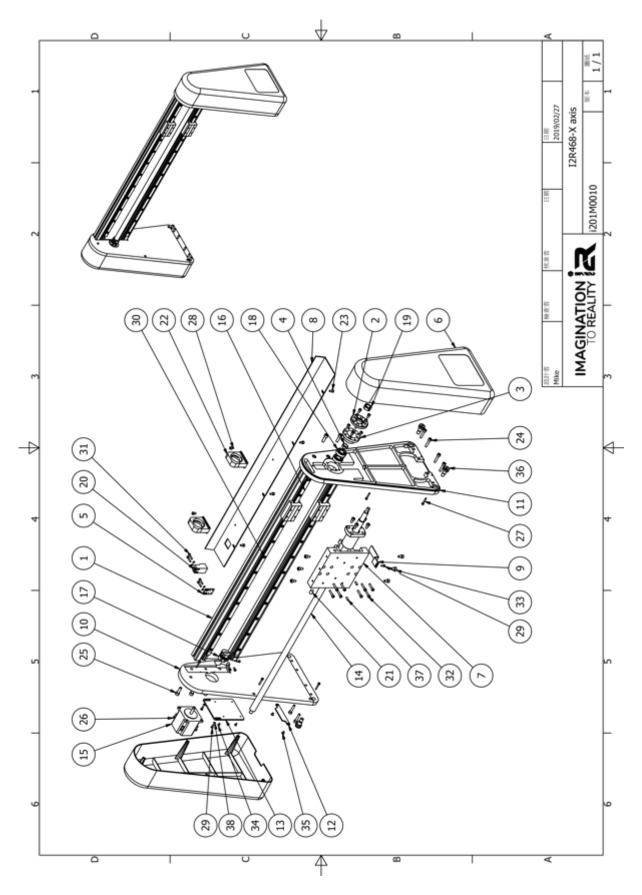


4 TECHNICAL SPECIFICATIONS

| I2R: Imagination to F | Reality B-Series CNC | B22 | B23 | B24 |
|--------------------------------|--------------------------------------|-----|-----|-----|
| X Axis Travel | 610mm | • | • | • |
| | 610mm | • | | |
| Y Axis Travel | 915mm | | • | |
| | 1220mm | | | • |
| Z Axis Travel | 100mm | • | • | • |
| Z Axis Travel Table Work Area | 947mm x 720mm | • | | |
| | 1247mm x 720mm | | • | |
| | 1547mm x 720mm | | | • |
| Spindle Collet size | ER16 | • | • | • |
| Collet included | 3.175mm and 6mm | • | • | • |
| High Speed Spindle | 2HP 1.5kW Electro Spindle | • | • | • |
| Spindle Speed | 0~24000 RPM | • | • | • |
| Rapid Feed Rate | 3500 mm/min | • | • | • |
| Precision Linear Guide Rails | X/Y/Z Axis | • | • | • |
| Precision Ball Screw | X/Y/Z Axis | • | • | • |
| Power Requirements | 220V, 50~60 Hz, 10A Single Phase | • | • | • |
| - | High Rigidity Interlocking Aluminium | | | |
| Working Table | Extrusion | • | • | • |
| · · | Integrated MDF Spoil Board | • | • | • |
| Gantry Bridge | High Rigidity Aluminium Extrusion | • | • | • |
| Gantry Support | Gravity Cast Aluminium Alloy | • | • | • |
| Gantry Clearance | 224mm | • | • | • |
| Machine Base | Aluminium Frame | • | • | • |
| | 690mm x 670mm | • | | |
| Machine Footprint | 990mm x 770mm | | • | |
| · | 1197mm x 770mm | | | • |
| | 690mm x 930mm | • | | |
| Required Floor Space | 1295mm x 949mm | | • | |
| · | 1595mm x 949mm | | | • |
| Max. Machine Height | 797mm | • | • | • |
| <u> </u> | 60kg | • | | |
| Machine Weight | 70kg | | • | |
| ŭ | 80kg | | | • |
| Tool Touch Off Puck | Standard Accessory | • | • | • |
| Integrated Air Cooled System | Standard Accessory | • | • | • |
| Controller Box and Software | UCCNC controller as standard | • | • | • |



5 DOCUMENTATION

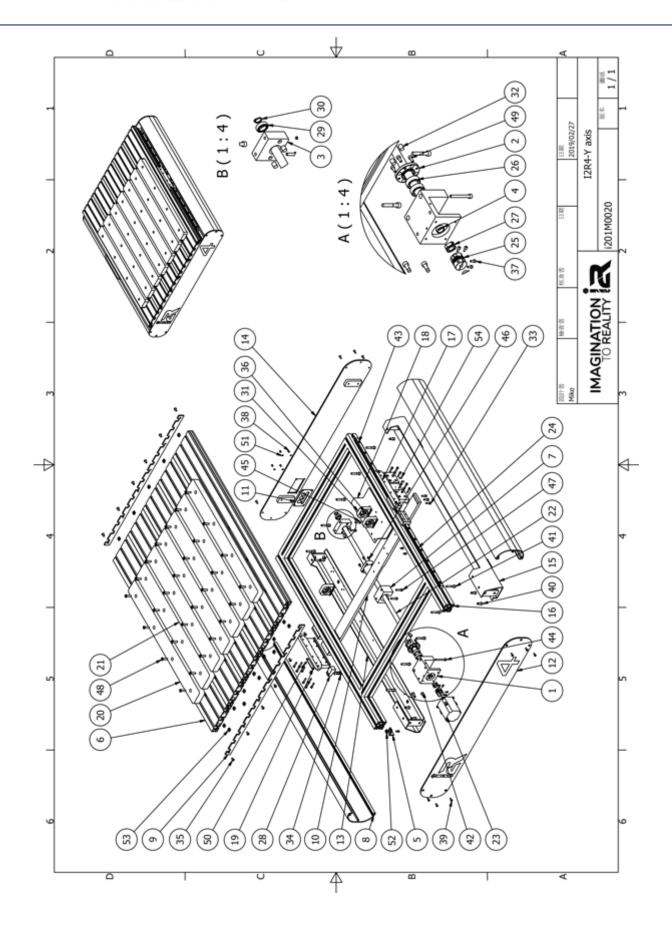




| Material | Part number | Item name | Quantity | category |
|----------|-------------------------------|--|----------|---------------|
| | I2R4 X axis | | | |
| | i201M0010 | X-axis combination - i2R468 | | |
| 1 | AX0100042 | X-axis aluminum extrusion | 1 | Components |
| 2 | AX0100131 | Bearing cap | 1 | Components |
| 3 | AX0100151 | Bearing housing | 1 | Components |
| 4 | AX0100191 | Spacer | 1 | Components |
| 5 | AX0100222 | Sensor matte | 1 | Components |
| 6 | i20101130 | Vertical left and right shields (long version) | 2 | Components |
| 7 | i20101201 | X-axis skateboard | 1 | Components |
| 8 | i20101221 | Protective chain lower bracket | 1 | Components |
| 9 | i20101231 | Sensor fixing plate | 1 | Components |
| 10 | i20101320 | Left side panel | 1 | Components |
| 11 | i20101330 | Right vertical board | 1 | Components |
| 12 | i20101750 | Complete line plate | 1 | Components |
| 13 | i20101790 | PCB fixing board | 1 | Components |
| 14 | AX0100070 | X-axis screw | 1 | Components |
| | i201MH010 | X-axis commercially available - i2R468 | | |
| 15 | TK266D-02A51 | 2-phase stepper motor 7.2w-2A 1.8 ohm | 1 | Components |
| 16 | STAF-BGXS15BN-1-700-NZ0-20-20 | X-axis rail | 2 | Components |
| 17 | SQR20C | Coupling | 1 | Components |
| 18 | TPI-7001AHTP5 | Oblique ball bearing | 2 | Components |
| 19 | BNR12 | Anti-loose bearing nut - four angle type | 1 | Components |
| 20 | DA-1805NO | Square proximity switch | 1 | Components |
| 21 | CXHK8-10 | Excellent glue | 2 | Components |
| 22 | N-TH-34B | Round tube holder (black) | 2 | Components |
| | i201S0010 | X-axis screw package - i2R468 | | |
| 23 | M4 x8 | Hexagon socket head cap screws | 12 | Screw package |
| 24 | M5 x 25 | Hexagon socket head cap screws | 8 | Screw package |
| 25 | M6 x 20 | Hexagon socket head cap screws | 6 | Screw package |
| 26 | M4 x 10 | Hexagon socket head cap screws | 4 | Screw package |
| 27 | M3 x 20 | Hexagon socket head cap screws | 10 | Screw package |
| 28 | M4 x 6 | Hexagon socket head cap screws | 2 | Screw package |
| 29 | M3 x 8 | Hexagon socket head cap screws | 3 | Screw package |
| 30 | M4 x 16 | Hexagon socket head cap screws | 24 | Screw package |
| 31 | M3 x 16 | Hexagon socket head cap screws | 4 | Screw package |
| 32 | M4 x 20 | Hexagon socket head cap screws | 8 | Screw package |
| 33 | M5 x 10 | Hexagon socket head cap screws | 10 | Screw package |
| 34 | M3 x 6 | Semicircular head socket head cap screws | 4 | Screw package |
| 35 | M3x6 | Round head Phillips | 2 | Screw package |
| 36 | MSBH10-10 | Contour screw M8 | 4 | Screw package |
| 37 | Pin4x10 | Pin | 2 | Screw package |
| 38 | M3-flat washer | washer | 6 | Screw package |
| 39 | M4-20 type | Nut M4-20 | 4 | Screw package |
| 40 | P4-M4 | Nut P4M4 | 24 | Screw package |







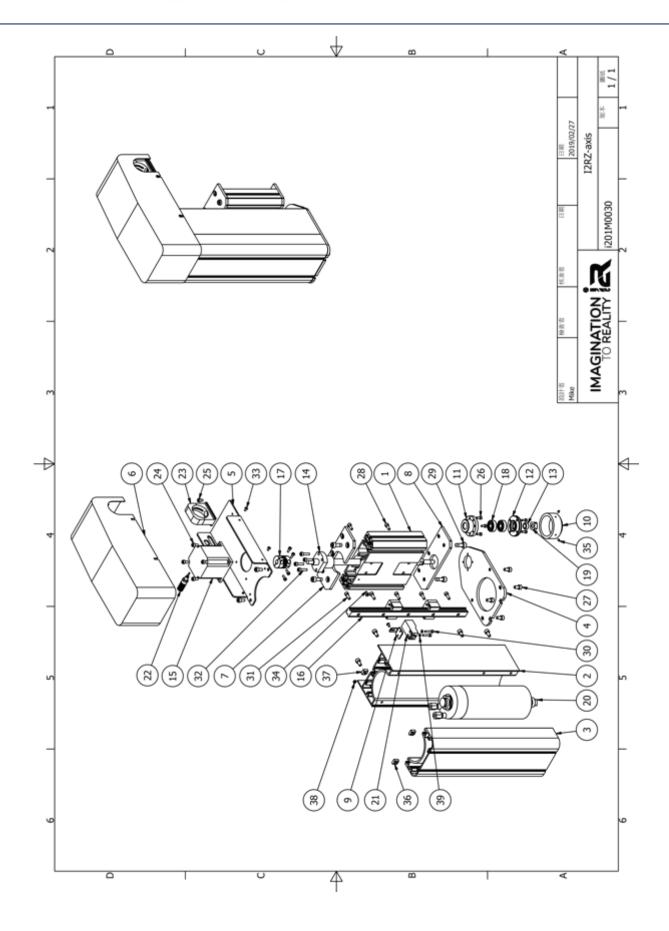


| | I2R4 Y 軸 | | | |
|----|---------------------------------------|--|----|--------------------------------|
| | i201M0020 | Y-axis combination - i2R4 | | |
| 1 | AX0100124 | Motor seat | 1 | Components |
| 2 | AX0100124 AX0100131 | | 1 | Components |
| 3 | AX0100131 AX0100171 | Bearing cap | 1 | Components |
| 4 | AX0100171 AX0100191 | Y-axis bearing housing Spacer | 1 | Components |
| 5 | | - | 1 | - |
| 6 | AX0100260 | Sensor matte_B | 5 | Components |
| 7 | i20100141 | Y-axis aluminum extrusion Y-axis nut seat | 1 | Components |
| | i20100160 | 2 10110 1101 0000 | | Components |
| 8 | i20100181 | Y-axis aluminum extrusion side cover | 2 | Components |
| | i20101091 | Y-axis aluminum extrusion side cover | 2 | Components |
| 10 | i20101151 | Y-axis skateboard | 1 | Components |
| 11 | i20101211 | Interface back cover | 1 | Components |
| 12 | i20101261 | Y-axis aluminum extrusion front cover | 1 | Components |
| 13 | i20101272 | Structural board (left) | 1 | Components |
| 14 | i20101281 | Y-axis aluminum extrusion back cover | 1 | Components |
| 15 | i20101292 | Structural board (right) | 1 | Components |
| 16 | i20101301 | 4040 aluminum extrusion frame | 1 | Components |
| 17 | i20101350 | Skate fixing block | 2 | Components |
| 18 | i20101490 | Y-axis bracketing fixed plate | 1 | Components |
| 19 | i20101760 | Complete line plate | 1 | Components |
| 20 | AX0100540 | 24x24-MDF(EDGE) | 2 | Components |
| 21 | AX0100562 | 24x24-MDF | 5 | Components |
| 22 | AX0100200 | Y-axis screw | 1 | Components |
| | i201MH020 | Y-axis commercially available product - i2R4 | | |
| 23 | TROY_TK268D-02A51 | 2-phase stepper motor 9w-2A2.25 ohm | 1 | Components |
| 24 | STAF-BGXS15BN-2-820-NZ0-20- 20 2x2 | Y axis rail | 2 | Components |
| 25 | SQR20C(6.35.8) | Coupling | 1 | Components |
| 26 | TPI-7001AHTP5 | Oblique ball bearing | 2 | Components |
| 27 | BNR12 | Anti-loose bearing nut - four angle type | 1 | Components |
| 28 | DA-1805NO | Square proximity switch | 1 | Components |
| 29 | 6901ZZ | Deep groove ball bearing | 1 | Components |
| 30 | STWN12 | C buckle | 1 | Components |
| 31 | N-TH-34B | Round tube holder (black) | 3 | Components |
| 32 | CXHK8-10 | Excellent glue | 4 | Components |
| | i201S0020 | Y-axis screw package -i2R4 | | |
| 33 | M5 x 16 | Hexagon socket head cap screws | 6 | Screw package |
| 34 | M3 x 20 | Hexagon socket head cap screws | 2 | Screw package |
| 35 | M5 x 10 | Hexagon socket head cap screws | 12 | Screw package |
| 36 | M4 x 6 | Hexagon socket head cap screws | 3 | Screw package |
| 37 | M3 x 8 | Hexagon socket head cap screws | 4 | Screw package |
| 38 | M3 x 6 | Semicircular head socket head cap screws | 4 | Screw package |
| 39 | M4 x 12 | Hexagon socket head cap screws | 12 | Screw package |
| 40 | M6 x 16 | Hexagon socket head cap screws | 6 | Screw package |
| 41 | M6 x 35 | Hexagon socket head cap screws | 10 | Screw package |
| 42 | M6 x 12 | Hexagon socket head cap screws | 8 | Screw package |
| 43 | M4 x 20 | Hexagon socket head cap screws | 44 | Screw package |
| 44 | M5 x 45 | Hexagon socket head cap screws | 2 | Screw package |
| 45 | M5 x 20 | Hexagon socket head cap screws | 2 | Screw package |
| 46 | M4 x8 | Hexagon socket head cap screws | 6 | Screw package |
| 47 | M5 x 25 | Hexagon socket head cap screws | 2 | Screw package |
| 48 | M6 x 25 | Hexagon socket head cap screws | 28 | Screw package |
| 49 | M4 x 10 | Hexagon socket head cap screws | 9 | Screw package |
| 50 | TRSS3-6 | Round head Phillips | 2 | Screw package |
| 51 | M3-flat washer | washer | 6 | Screw package |
| 52 | P4-M4 | Nut P4M4 | 29 | |
| 53 | B4-M6 | Nut P4M6 | 44 | Screw package Screw package |
| 54 | Pin4x10 | Pin | 44 | |
| 55 | M8 x 25 | Hexagon socket head cap screws | 4 | Screw package Screw package |
| رر | 1V1O A 2J | Tickagon socket head cap sciews | 4 | screw package |



| 56 | P4-M5 | Nut P4M5 | 4 | Screw package |
|----|-----------|------------|---|---------------|
| 57 | Stop M4x4 | Stop screw | 1 | Screw package |

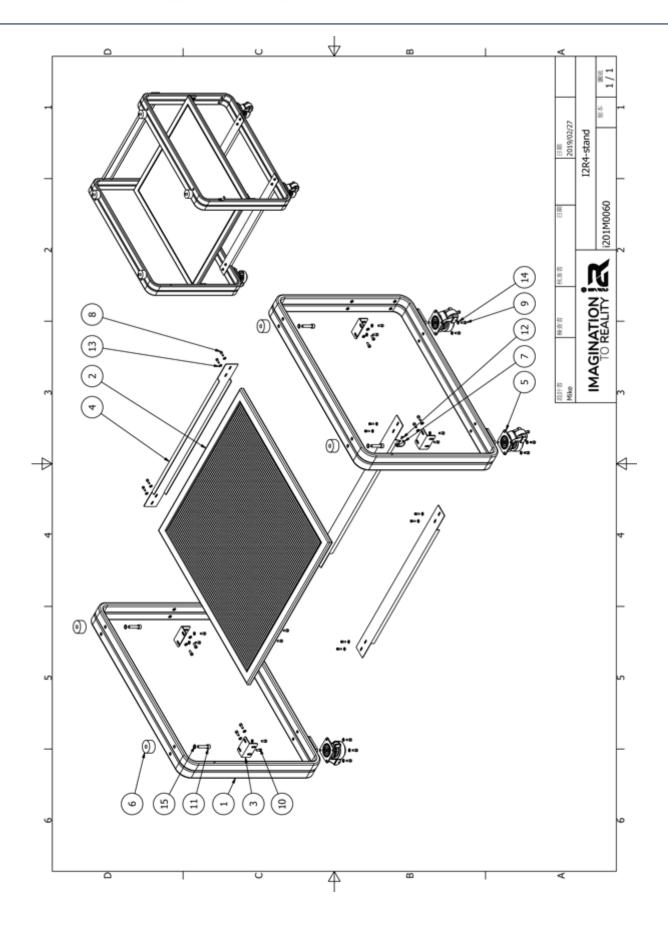






| | I2R4 Z axis | | | |
|----|-------------------------------|---|----|---------------|
| | i201M0030 | Z axis combination - i2R468 | | |
| 1 | i20101021 | Z-axis slide | 1 | Components |
| 2 | i20101171 | Spindle holder-B | 1 | Components |
| 3 | i20101181 | Spindle holder-A | 1 | Components |
| 4 | i20101032 | Z-axis lower cover | 1 | Components |
| 5 | i20101191 | Motor plate gold seat | 1 | Components |
| 6 | i20101102 | X-axis linkage chain | 1 | Components |
| 7 | i20101050 | Sliding block connection block - under | 1 | Components |
| 8 | i20101061 | Sliding block connection block - on | 1 | Components |
| 9 | i20101070 | Sensor fixing plate | 1 | Components |
| 10 | AX0300161 | Bearing cover | 1 | Components |
| 11 | AX0300080 | Bearing housing | 1 | Components |
| 12 | AX0300091 | Bearing gland | 1 | Components |
| 13 | AX0300070 | Spacer | 1 | Components |
| 14 | i20101040 | Z axis_screw_304L | 1 | Components |
| | i201MH030 | Z-axis commercially available - i2R468 | | |
| 15 | TK266D-02A51 | 2-phase stepper motor 9w-2A2.25 ohm | 1 | Components |
| 16 | OME-BGXS15BS-2-L280-20- 20 | Z axis rail _L280 | 1 | Components |
| 17 | SQR20C(6.35.8) | Coupling SQR20C (6.35, 8) | 1 | Components |
| 18 | 708A | Angled ball bearing (8x22x7t) | 2 | Components |
| 19 | BNR8 | Anti-loose bearing nut - four angle type | 1 | Components |
| 20 | i20101780 | Spindle _\phi65-V220/800W (Air cooled, 0.8KW 2.5A 220V) | 1 | Components |
| 21 | DA-1805NO | Square proximity switch | 1 | Components |
| 22 | N1535 | Dr. Terminal Black (9404B) | 1 | Components |
| 23 | N-TH-34B | Round tube holder (black) | 1 | Components |
| | i201S0030 | Z-axis screw package - i2R468 | | |
| 24 | M4 x8 | Hexagon socket head cap screws | 4 | Screw package |
| 25 | M4 x 6 | Hexagon socket head cap screws | 1 | Screw package |
| 26 | M3 x 8 | Hexagon socket head cap screws | 12 | Screw package |
| 27 | M5 x 10 | Hexagon socket head cap screws | 12 | Screw package |
| 28 | M4 x 10 | Hexagon socket head cap screws | 4 | Screw package |
| 29 | M6 x 12 | Hexagon socket head cap screws | 4 | Screw package |
| 30 | M3 x 16 | Hexagon socket head cap screws | 2 | Screw package |
| 31 | M4 x 14 | Hexagon socket head cap screws | 5 | Screw package |
| 32 | M4 x 16 | Hexagon socket head cap screws | 4 | Screw package |
| 33 | M3 x 6 | Hexagon socket head cap screws | 5 | Screw package |
| 34 | M4 x 8 | Hexagon socket head cap screws | 1 | Screw package |
| 35 | Stop paying flat M3x4 | Stop screw | 2 | Screw package |
| 36 | M3 (W5.5x2.4t) | Nut (W5.5) | 1 | Screw package |
| 37 | M3-flat washer | washer | 2 | Screw package |
| 38 | P4-M5 | Nut P4M5 | 6 | Screw package |
| 39 | P4-M4 | Nut P4M4 | 5 | Screw package |







| | I2R4 Stand | | | | |
|----|-----------------------|--------------------------------|----|---------------|--|
| | i201M0060 | i2R4-Stand combination | | | |
| 1 | i20101243 | Base STAND | 2 | Components | |
| 2 | i20101252 | Carrier board | 1 | Components | |
| 3 | i20101740 | Support plate | 4 | Components | |
| 4 | i20101840 | Base bracket | 3 | Components | |
| 5 | FG-50F | Korean casters | 4 | Components | |
| 6 | AX01C00044 | Rubber shock pad -50Xd13X25t | 4 | Components | |
| 7 | SDK-3016 | 3016 white iron hook | 1 | Components | |
| | i201S0060 | i2R468-Stand Screw Pack | | | |
| 8 | M5 x 16 | Hexagon socket head cap screws | 12 | Screw package | |
| 9 | M6 x 12 | Hexagon socket head cap screws | 16 | Screw package | |
| 10 | M6 x 16 | Hexagon socket head cap screws | 16 | Screw package | |
| 11 | M10 x 55 | Hexagon socket head cap screws | 4 | Screw package | |
| 12 | M4 x10 | Hexagon socket head cap screws | 2 | Screw package | |
| 13 | M5 washer | washer | 12 | Screw package | |
| 14 | M6 washer | washer | 24 | Screw package | |
| 15 | M10 small flat washer | washer | 4 | Screw package | |