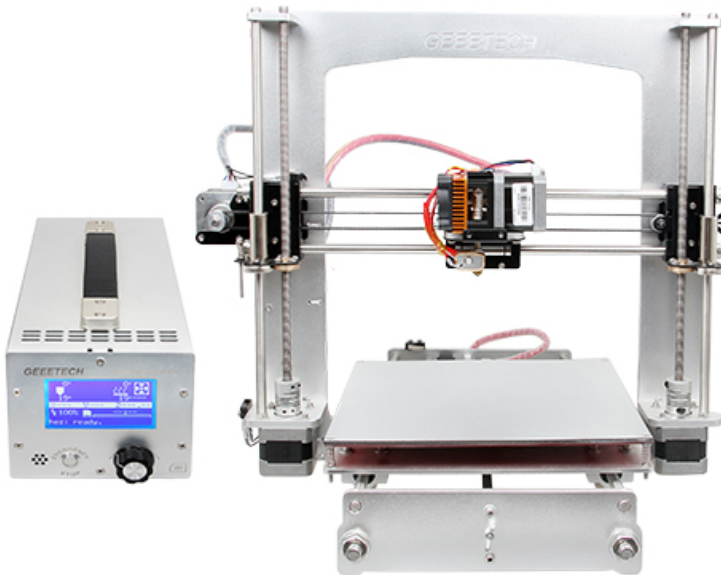


# GeetechPrusa I3 A pro

## 3D Printer



## **Copyright Declaration**

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## **Technical Support**

If you are interested in the technology of 3D printing, flight control and U-home, welcome to Geetech, we have series of made-up products, main boards, modules and a variety of peripherals for you. Or if you are looking for relevant information or technical support, please log in our Forum where you can find anything you want about open source. To know more about our new products, please visit [www.geetech.com](http://www.geetech.com), we will serve you wholeheartedly.

## **Safety Instruction**

Building the printer will require a certain amount of physical dexterity, common sense and a thorough understanding of what you are doing. We have provided detailed instructions to help you assemble it easily, please download at [geeetech.com](http://geeetech.com).

However ultimately we cannot be responsible for your health and safety whilst building or operating the printer, with that in mind be sure you are confident with what you are doing prior to commencing with building or buying. Read the entire manual to enable you to make an informed decision.

Building and operating involves electricity, so all necessary precautions should be taken and adhered to, the printer runs on 12V supplied by a certified power supply, so you shouldn't ever have to get involved with anything over 12V but bear in mind there can still be high currents involved and even at 12V they shouldn't be taken lightly.

High temperatures are involved with 3D Printing, the Extrusion nozzle of the hot end can run about 230°C, the heated bed runs 110°C and the molten plastic extruded will initially be at around 240°C, so special care and attention should be made when handling these parts of the printer during operation.

We wouldn't recommend leaving your printer running unattended, or at least until you are confident to do so. We cannot be held responsible for any loss, damage, threat, hurt or other negligent result from either building or using the printer.

## **INSTRUCTION:**



This Prusa I3 A pro 3D printer is modified and optimized based on the previous Geeetech Prusa Aluminum I3 3D printer.

As you can see, the most obvious modification is that we add a 3-in-1 3D printer control box for this Prusa I3 A pro which gathers the motherboard, power supply and LCD Cpanel in one box, saving the space taken by the printer and bringing you a neat and organized desktop, most importantly, the power supply is installed inside the control box now, which is not only for protecting the power supply, but also for eliminating unnecessary dangers, protecting your family and your pets.







This Prusa I3 A pro 3D Printer DIY kit offers a significant experience for you to learn 3D printing from scratch, this kit that includes all the parts you need to build your first 3D printer will be the best valued purchase for you. If you are a starter, we have manuals and videos for step-by-step assembly and an active support service via forum to help with any queries.

## PACKAGE LIST:

This list includes all the parts required to assemble your Prusa I3 A pro. After you received your package, please check if all the parts listed are included. Also make sure all the components are in good condition and not damaged during shipping. If anything is missing please contact with our customer service straight away, provide us the NO. , Name, and Qty.

<b>Mechanical parts</b>				
No	Name	Specifications	Qty	Pic
1	Smooth Rod	D8*L322mm Z-axis	2	
2	Smooth Rod	D8*L390mm X-axis	2	
3	Smooth Rod	D8*L410mm Y-axis	2	
4	Lead screw	M8*L300mm Z-axis	2	
5	Threaded Rod	M10*L450mm Y-axis	2	
6	M2.5 Washers	M2.5	6	
7	M3 Washers	M3	52	
8	M4 Washers	M4	16	
9	M10 Washers	M10	12	









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10	Spring washer	M10	6	
11	Hex Nut	M3	8	
12	Hex Nut	M4	16	
13	Hex Nut	M10	12	
14	Lock nut	M4	2	
15	Wing nut	M3	2	
16	Z-axis nut	M8 (tin-bronze)	2	
17	screw	M2.5x8mm	2	
18	screw	M2.5x12mm	4	
19	Screw	M3x6mm	23	
20	Screw	M3x8mm	2	
21	screw	M3x10 mm	21	
22	screw	M3x16 mm	18	
23	screw	M3x20 mm	2	
24	screw	M3x25mm	3	
25	screw	M3x45 mm	2	
26	Screw	M4x6 mm	4	

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27	screw	M4x 12 mm	16	
28	screw	M4x25 mm	2	
29	Counter-sunk-head screw	M3x30 mm	4	
30	Lock screw	M3x4 mm	8	
31	Lock ring	With M4x4 mm jimmy bolt	4	
32	Spring	length 20mm	5	
33	Linear Bearing	PCS8UU	4	
34	Linear Bearing	LM8LUU	2	
35	Linear Bearing	LMH8LUU	2	

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36	Ball Bearing	MR84zz Placed in No.38	4	
37	Driven wheel holder	Sheet metal part	2	
38	Driving wheel		2	
39	Belt mount	Sheet metal part	1	
40	Coupling	5-8mm	2	
41	Pulley	20 tooth Inner diameter=5mm	2	
42	Timing Belts	L=900mm	2	
43	Belt bracket		1	



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44	Spacer	With Aircraft type end	4	
45	End stop	2-pin Blue, red and black,300mm	1 set	
46	Extension wire 30cm	For the fan Of control board	1	
47	Spiral Coil	3 meters	1	
48	Nylon ties		30	
49	Heatbed set		1set	
50	Aluminum plate	217mmx217mm x3mm	1	








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51	Control Box kit	AC Input: 115V/1.5A 230V/0.75A DC Output: 12V/20A	1	
52	3D Power Plug		1	
53	MK8 Extruder	With mounting block	1	
54	Stepper motor		4	
55	USB cord	A-BA	1	
<b>Aluminum Plates</b>				

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A1	XZ Frame	I3-01-A	1	
A2	Y Front Side Support	I3-02	1	
A3	Y Rear Side Support	I3-03	1	
A4	Z Motor Fixed Plate	I3-04	2	
A5	Z Top Support plate	I3-05	2	
A6	Y Building platform	I3-20	1	
A7	Y Motor Fixed Plate	I3-09	1	

A8	Guide BlockA	I3-11	1	
A9	Guide BlockB	I3-10	1	
A10	Connecting fender	I3-07	2	
<b>Sheet metal part</b>				
M1	X-axis left end	left	1	
M2	X-axis right end	right	1	
M3	X Carriage	PI3F-S07	1	

M4	Bearing Bracket	PI3F-08	4	
M5	Extruder Holder	PI3B-S01	1	
<b>Free Add-on</b>				
F1	Ejector pin		1	
F2	Grater		1	
F3	Screw-driver		1	
F4	Starter filament	3 meters	1	
F5	Spool holder set	Acrylic	1	

## **GENERAL CARE AND MAINTENANCE**

As with all the electronic equipment, it is important to keep your printer clean to extend its life. Regularly remove dust and debris with a microfiber cloth or compressed air. Dredge the tube and the nozzle after use every time to ensure fluent performance.

- Don't leave the heaters on the printer turned on for a long periods of time when not used.
- Don't leave your printer in shady and moist places, which may exacerbate the problems associated with erosion.
- The three axes of the Geeetech Prusa I3 A pro printer are lubricated with grease for smooth operation and can last for a long time. Grease may need to be re-applied to your printer to maintain smooth performance.

## **SUPPROT**

Thanks for choosing Geeetech, we strive to provide a satisfied and pleasant shopping experience for you, but we do understand there may be some questions you may encounter in using our product. If so, you can contact us directly or post on our forum, our technique staff will help you resolve it. For more detailed information, you can also visit Geeetech wiki from our home page. (<http://www.geeetech.com>)

Download the building instruction here:

<http://www.geeetech.com/geeetech-prusa-i3-a-pro-3d-printer-diy-kit-p-997.html>

For detailed build instruction video, please subscribe our YouTube.

<https://www.youtube.com/user/geeetech/playlist>



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