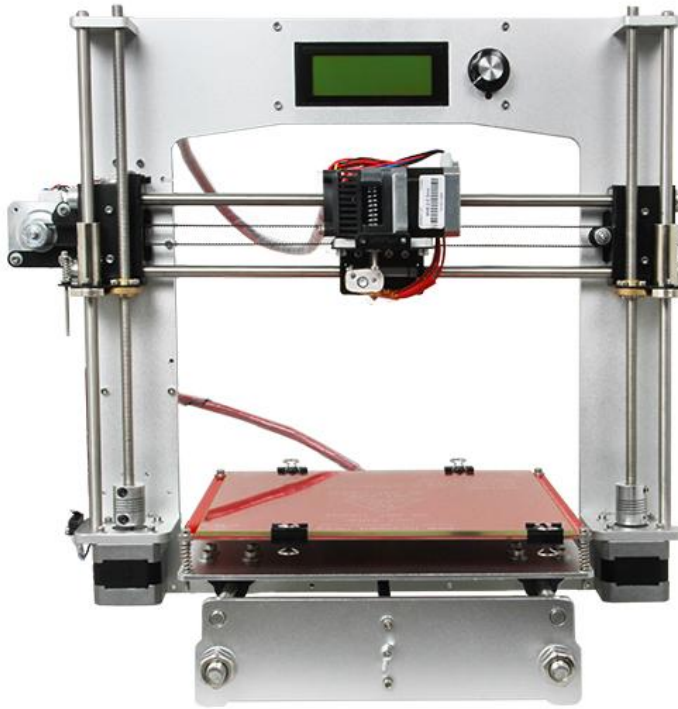
Geeetech Aluminum Prusa I3

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 Geeetech, 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.geeetech.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.

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℃, the heated bed runs 110℃ and the molten plastic extruded will initially be at around 200℃, 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:

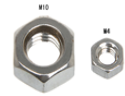
This Aluminum Prusa I3 3D Printer is modified and manufactured by Shenzhen Getech Co., Ltd., based on Prusa i3. With features of extremely simple assembly, easy debugging and more stable performance, the Aluminum Printer is an ideal reference for you. The new frame is made from aluminum for durability and extending service life. In addition, a LCD panel is added as an integrated component of the printer, setting in the front top frame.

In sum, this Aluminum Prusa I3 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 Aluminum Prusa I3 3D Printer. 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.

Mechanical parts				
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	Threaded Rod	M8*L300mm Z-axis	2	
5	Threaded Rod	M10*L450mm Y-axis	2	
6	M2.5 Washers	M2.5	6	
7	M3 Washers	M3	60	
8	M4 Washers	M4	24	

9	M10 Washers	M10	12	
10	Spring washer	M10	6	
11	Hex Nut	M3	18	
11A	Hex Nut	M4	16	
12	Hex Nut	M10	12	
13	Lock nut	M4	2	
14	Wing nut	M3	2	
15	Z-axis nut	M8（tin-bronze）	2	
16	screw	M2.5x8mm	2	
17	screw	M2.5x12mm	4	
18	Screw	M3x6mm	23	
19	Screw	M3x8mm	2	
20	screw	M3x10 mm	25	
21	screw	M3x16 mm	16	

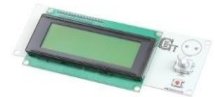
22	screw	M3x20 mm	12	
23	screw	M3x25mm	5	
24	screw	M3x30 mm	5	
25	screw	M3x40 mm	2	
26	screw	M3x50 mm	1	
27	Screw	M4x6 mm	4	
28	screw	M4x 12 mm	16	
29	screw	M4x25 mm	2	
30	Lock screw	M3x4 mm	8	
31	Lock ring	With M4x4 mm jimmy bolt	4	
32	Spring	length 20mm	5	
33	Linear Bearing	PCS8UU	4	

34	Linear Bearing	LM8LUU	2	
35	Linear Bearing	LMH8LUU	2	
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	20tooth Inner diameter=5mm	2	
42	Timing Belts	L=900mm	2	
43	Belt bracket		1	
44	Spacer	M3x8	8	
45	Dovetail clamp	19mm	4	

46	End stop	2-pin Blue,red and black	1 set	
47	Fan	40x40x10mm	1	
48	Extention wire 30cm	For the fan Of control board	1	
49	Extention wire 120cm	For the fan On extruder	1	
50	DuPont cable	4Pin for Z motor	1	
51	Knob	For LCD control	1	

52	Spiral Coil	3 meters	1	
53	Nylon ties		30	
54	Heatbed set		1set	
55	Borosilicate glass	210mmx200mm x3mm	1	
56	Power supply Unit	AC Input: 115V/1.5A 230V/0.75A DC Output：12V/15A	1	
57	Power Cable	Connect board to PSU	1	

58	3D Power Cable	With plug	1	
59	Extruder	MK8 extruder	1	
60	Control board kit	Sanguinololu +4A4988	1 set	
61	Stepper motor		4	
62	LCD 2004	LCD2004+ cable	1	
63	USB cord	A-BA	1	

Aluminum Plates				
A1	XZ Frame	I3-01	1	
A2	Y Front Side Support	I3-02	1	
A3	Y Rear Side Support	I3-03	1	
A4	Fan Fix Block	I3-08	1	
A5	Z Motor Fixed Plate	I3-04	2	
A6	Z Top Support plate	I3-05	2	

A7	Y Building platform	I3-20	1	
A8	Y Motor Fixed Plate	I3-09	1	
A9	Guide BlockA	I3-11	1	
A10	Guide BlockB	I3-10	1	
A11	Connecting fender	I3-07	2	
Sheet metalpart				
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	
Free Add-on				
F1	Ejector pin		1	

F2	Grater		1	
F3	Screw-driver		1	
F4	Starter filament	3 meters	1	
F5	Spool holder set	Acrylic	1	

Download instruction here:
http://www.geeetech.com/geeetech-aluminum-prusa-i3-3d-printer-kit-p-944.html

For detailed build instruction video, please subscribe our YouTube.

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

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 Aluminum 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.

- Avoid positioning your power supply unit in such a way that the brick is hanging, pulling, or putting any unnecessary stress in the electrical wires and components.

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)

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