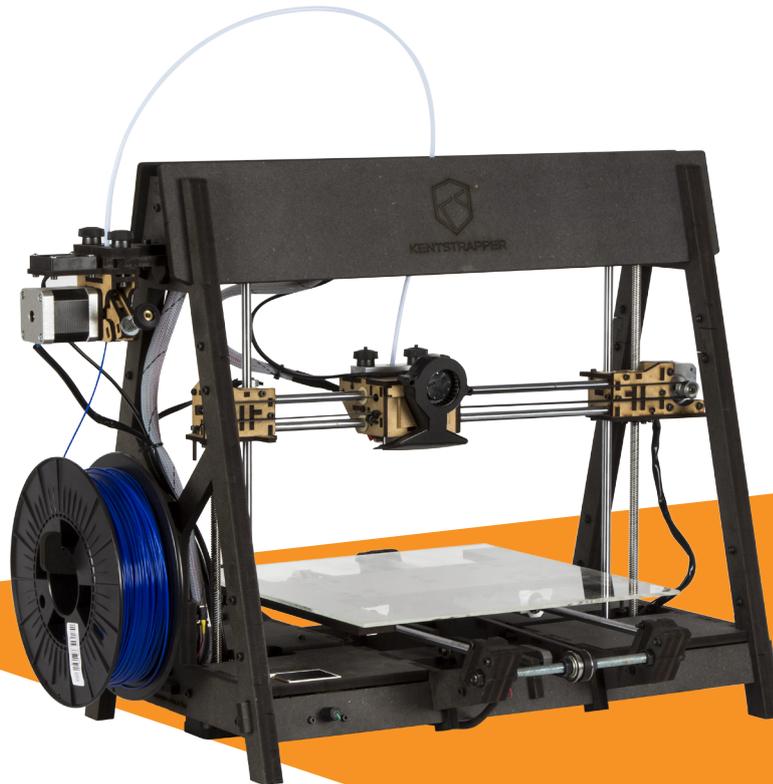


# VOLTA

3D Printing speaks italian

## TECHNICAL FILE



## MAIN FEATURES

Printing area	260 x 280 x 190 mm
Layer thickness	0.060 mm
Max temperature	280° C
Supported materials	ABS, PLA, Laywood, Laybrick, Nylon, PET, XT, XT-carbon and other thermoplastic materials compatible
Dimensions	580 x 460 x 460 mm
Weight	9.9 kg
Power supply	12V 5A - 230V AC

# KENTSTRAPPER VOLTA

Fused Deposition Modeling 3D Printer. With Kentstrapper you can create custom and unique objects, expressing your creativity in a new, unexplored way.

## THE FOURTH GENERATION

This 3D printer is our fourth-generation model. A new system of wire-loading was implemented, with a guide handle (Bowden). Moreover, the plastic material (ABS or PLA) support has also been integrated into the structure.

A lot of improvements can be noticed, e.g. increased stability during use and quick installation. Particular attention has been paid to the interaction between human and machine, as well as the precision printing of individual layers, renewing the extrusion apparatus.

## A NEW STRUCTURE

This 3D printer was thought to have a solid, non-cubic structure, in order to obtain a bigger printing area and an optimization of production and shipping costs. We created a new and solid structure, made with a HDF (High-density Fibreboard) laser-cut plate, colored with natural dyes with excellent mechanical characteristics and consumption resistance.

Reliable and high quality, our printers are ideal for hobbyists, engineers, students, architects, designers and all those who wish to enter the world of 3D printing.

## USING A 3D PRINTER IS NOW EVEN EASIER

Thanks to the TFT graphic display, Volta can be used in stand-alone mode, without a PC connection. With the knob you can switch between screens, that are easy-to-use thanks to intuitive graphics. There is also a "utility" section, where you can find a tutorial that will help you to change the plastic wire and calibrate the printing plate. From the menu you can select the language, test the movement of the axes or plate-heating, and also verify that the extruder is working properly. Finally, thanks to the micro SD card slot, you can select and 3D-print a file previously converted into GCode.

## A MADE IN ITALY 3D PRINTER

The new Kentstrapper 3D printer was born between Florence and Milan, combining the best Italian craft tradition with the "Makers Movement" passion for innovation and research. Volta was born thanks to the passion for design of Patrizia and Marcello, co-founders of Tecnificio, and Kentstrapper's experience in 3D Printing.

## MAKE FAST

### YOUR 3D MODEL

The 3D printer allow to have at home or at work an advanced tool with a low price. In fact it is possible to give life to models created with modeling software on your desk. The possibility to create unique and customized objects becomes a possibility for all persons, in a new way of creativity never explored before. Manage every part of your project, from the project to print setting till create the object. Have a physics model means test it and verify if the shape is correct, otherwise change it very fast.

## 1 STRUCTURE

8mm Valchromat laser cut  
8mm guides with Iigus bearings

## 2 MOTORS

Five motors stepper NEMA 17.

## 3 TECHNOLOGY

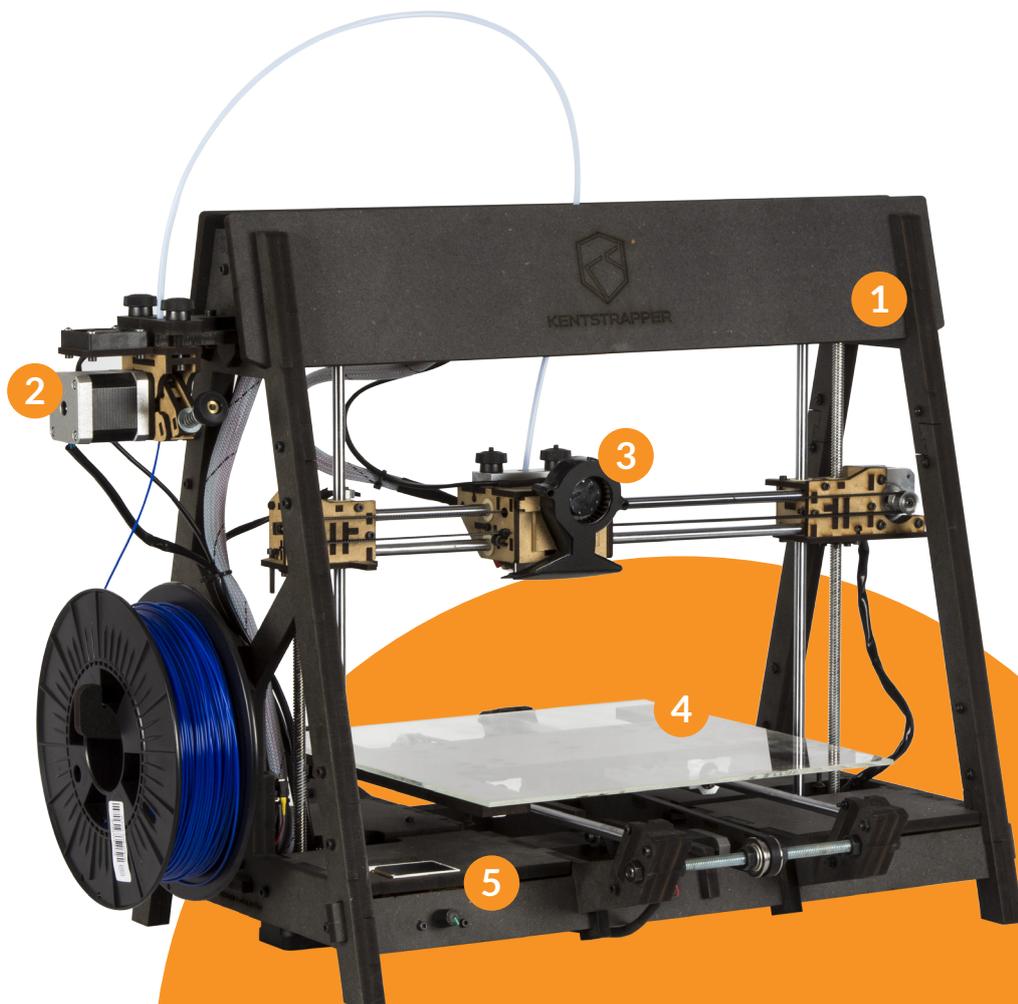
X Axis in MDF laser-cut with Iigus bearings  
FFF (Fused Filament Fabrication) for ABS and PLA  
All metal extruder e3d v6  
Boost system mk7  
5 stepper motors NEMA17

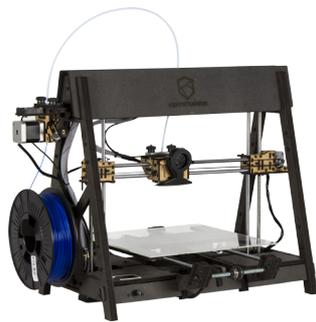
## 4 SKILLS

Working area: 250x270x190mm  
Suggested printing speed: 60mm/s Max  
Resolution in Z: 0.060

## 5 CONTROLLER

Arduino Mega 2560 + RAMPS 1.4 or  
Megatronics v3 USB Client 2.0 Power  
Supply 12V 5A - 230V AC





KENTSTRAPPER

[www.kentstrapper.com](http://www.kentstrapper.com)



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