Wider 3D printer with FFF printing technology (Fused Filament Fabrication) allows you to create objects and large prototypes in a single print thanks to its print plate that measures 1400 x 700 x 850 mm.

The printer is equipped with two extruders E3D Volcano that allow printing with two colors or with support materials (PVA / HIPS).

Brass nozzles with a standard diameter of 0.6 and 1 mm (optional 0,40 - 0,80 mm - 1,20 mm) can be interchanged with the aid of a 7 mm spanner.

This system allows changing the nozzle diameter to achieve different print resolutions.

The sturdy steel structure and Lexan opal coating 5 mm is equipped with integral self-locking wheels for easy handling.

Wider is supplied assembled and ready for use.

The printer uses Cartesian motion for the X, Y axes with a static support mechanism and dynamic support consisting of IGUS linear guides.
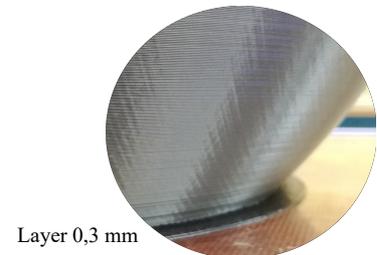
The Z-axis composed of four 16 mm INA cemented linear bars and four 14x3 IGUS trapezoidal bars.
The components are in ergal 7075 T651.

Mechanical features that allow speed in printing and layer accuracy.
The linear movement is controlled by NEMA 23 1/32 step motors.

The printing speed is 10-80 mm / s with a layer resolution of 100-400 microns (0.1 -0.4 mm) with dimensional accuracy of the axes X, Y ± 0.3 mm.

Layer 0,3 mm

Wider has no proprietary filaments, supports the following materials with a diameter of 1.75 mm:

- PLA
- PLA VOLCANO (high resolution printing and resistant to temperatures up to 95°C)
- PLA ALFA+
- PLA CERAMO
- ABS SPECIALE
- ETIL LAY
- PVA
- HIPS
- PLA GRAFYLON
- N-ASA
- LAYWOOD
- PETG
- T-GLASE

Wider is equipped with a 100 ° C heated bed and a 50 ° C tempered chamber (at 25 ° C ambient temperature). These features guarantee the correct adhesion of the large object to the printing surface and also allow the printing of special materials with high retractions.

The printer has a control panel on the front that allows you to manage, control and modify all the printing parameters.
During printing, through the control panel, it is possible to modify some parameters to improve the default settings in the creation of the .gcode.
The parameters concern extrusion temperature, ventilation, flow, printing speed and filament change.

Wider offers to user the possibility of printing via USB with the aid of a computer or independently via an SD card.

It is also possible to remotely control the printing process via the dedicated IP via the webcam of the PC / tablet supplied. Installed in the PC / tablet there is an application for managing print parameters and n.2 licenses of simplify 3D.

The printer is equipped with filament sensors that detect the absence of the wire inside the bowden and have the printer automatically perform the function of pause - displacement of the extruder body for coil replacement - resume of the print.

Wider is equipped with the self-levelling plate. Before each printing, the plane is aligned through a probe which analyzes 36 points of the printing plane and compensates the different heights.

The printer doesn't need continuous maintenance, but only a few precautions such as cleaning and lubrication of the axes, so that the printer is always in conditions of optimum efficiency.

Wider support files in. STL format

For the creation of these files you can use software provided Simplify 3D including 2 licenses.

A starter kit is supplied with the printer, including:

- User manual and maintenance
- SD Card
- USB cable
- Cutter for finishing
- Harmonic steel wire for cleaning the nozzles
- Spatula
- 2 filament spool 2,5 Kg
- Grommets for filament cleaning
- DPI security
- UPS
- PC/Tablet with n.2 licenses simplify 3D

Technical specification

Tecnology: FFF-Fused Filament Fabrication

Build dimension:1400x700x850 mm

Resolution layer Z axis: 100 micron – 400 micron (0,1 – 0,4 mm)

Filament diameter: 1,75 mm

Nozzle diameter: 0,6 mm -1 mm. Brass. Interchangeable

Extruders : n. 2 E3DvVolcano

Connectivity: USB – SD Card – PC/Tablet remote controle

Equipment: Key ignition, filament detection, wire change system, emergency stop button

CONTROL & FIRMWARE

Megatronics 3.1

Driver DRV8825

Marlin Firmware

DIMENSIONS & WEIGHT

3D printer dimensions : 1710 x 1080 x 1430 mm

Weight approx : 140 Kg

Shipping weight approx: 260 Kg

Dimensions wood box 1720x1090x1750 mm

TEMPERATURE

Extrusion temperature max: 300°C

Operating temperature: 15° -32 °C

Heated bed: 100°C

Temperate chambre: 50°C (room temperature 25°C)

MECHANICS

Build plate: Heating plate and tempered glass 5 mm

Structure: Powder coated steel - lexan coating 5 mm

Frame: 45x45 aluminum profiles

XY Assi: XY static support: IGUS linear guides
XY dynamic support: IGUS linear guides

Z axis : N° 4 INA cemented linear bars, 4 IGUS trapezoidal bars

Motors: NEMA 23 stepper motors. 1/32 step

Printing speed : 10 – 80 mm/s

Transfer speed : 10- 200 mm/s

OPERATING REQUIREMENTS

Power: 240 – 400 V AC 50 Hz 2000 Watt