



PlayMaker XD



PlayMaker XD, third-generation of 3D printer, uses FFF (fused filament fabrication) printing technology. The structure composed with 45x45 aluminum profiles, a frame in powder-coated sheet metal and lexan 3-5 mm.

It is a compact 3D printer that measures 650x600x690 mm able to enclose a print plane with dimensions of 360x290x360 mm.

It is equipped with a 50 ° C tempered chamber to allow better adhesion of the print, especially when using technical materials or with high retractions.

The printing bed reaches a temperature of 120 ° C.

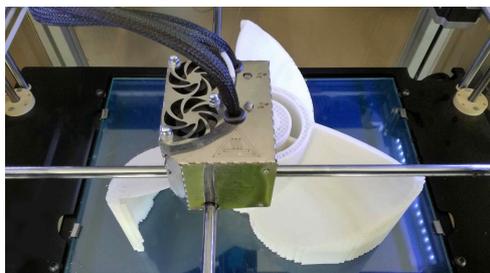
PlayMaker XD is equipped with two extruders for printing with support material or with two materials at the same time.

It mounts E3D-v6 extruders that reach the extrusion temperature of 270 ° C.

The brass nozzles with a standard diameter of 0.40 mm are interchangeable with the simple aid of a 7 mm wrench.

This system allows to change the diameter of the extruder to obtain different printing resolutions as well as allowing the replacement of the nozzle material if you have to print some types of material, such as carbon fiber.

Available diameters: 0.25 mm - 0.30 mm - 0.35 mm - 0.5 mm - 0.60 mm - 0.80 mm





The Cartesian X, Y movement allows to reach a high printing speed with a high accuracy of layer thickness. Playmaker XD has a Z-axis layer resolution of 0.02 mm up to 0.3 mm (20 - 300 micron) and an average print speed of 10 - 150 mm / s.

With special materials such as Ninjaflex, a layer accuracy of 0.1 mm is achieved.

The movement of the XY axis takes place through rectified 12 mm INA cement bars and self-lubricated bars 2X10 each, while the Z axis is moved by means of IGUS 10x2 trapezoidal bars and 12 mm INA cemented linear bars.

All the components of the linear movement are in ERGAL 7075 T651.

PlayMaker XD uses 1/32 step NEMA 23 stepper motors.



PlayMaker XD has no proprietary filaments, supports the filaments on the market of 1.75 mm including:

- | | | |
|---------------------|-------------------------------|-------------------------|
| ●PLA | ● MACHWAX | ●Nylon |
| ●ABS | ●ABS X | ●HIPS |
| ●ABS V0 flameretard | ●PVA solubil support material | ●T-glase |
| ●ASA X | ●PBT | ●carbon fiber and nylon |
| ●PC/ABS PC/ABS V0 | ●ALFA+ | ●Iglidur |
| ●Alfa+ | ●TPU | ●polypropylene |
| ●PLA Ceramo | ●Laywood e Laywoo-D3 | |
| ●Etil lay | ● PETG | |

The 3D printer is equipped with a control panel with an integrated 128x64 LCD graphic screen that allows you to manage or modify the various parameters even during printing such as:

- Print speed and temperature
- Cooling fan speed
- Flow,
- Automatic filament change
- Management of the SD card
- Axis movement
- Pause / stop printing and extrusion
- Manual bad shape



The printer can be used via USB connectivity with computer or via SD card to print independently. There is the possibility to control with the supplied tablet, remotely the printer using the webcam with dedicated IP address. An application for controlling and managing print parameters is installed inside.

PlayMaker XD is compatible with any 3D material and software on the market.

The files supported by the printer is .STL to .gcode.

For the safety of the user and of the prints the devices were installed:

- Emergency stop on the main panel stops the printer in an emergency.
- Filament sensor, detects the end of the filament and makes the printer run automatically: pause - move extruders in the car home to allow the user to change the thread - resume printing from the exact point where it was suspended
- Filament change



A starter kit is supplied with the PlayMaker XD, including:

- User and maintenance manual
- SD card
- USB cable
- Cutter for finishing
- Harmonic steel wire for cleaning the nozzles
- Scraper
- safety devices
- Grommets for filament cleaning
- 1 kg of material



TECH DATA

Tecnology: FFF-Fused Filament Fabrication

Build volume: 360x290x360 mm

Resolution layer: 0.02 mm –0, 3 mm (20-300 micron)

Filament diameter: 1,75 mm

Nozzle: Standard 0,40 mm , interchangeable. Brass

Extruders: 2

Connectivity: USB – SD Card

CONTROL & FIRMWARE

Megatronics 3.1

Stepper Drivers DRV8825

Marlin Firmware

DiMENSIONS AND WEIGHT

Dimensions: 650 x 600 x 690 mm

Approx. weight: 50 Kg

Approx. Shipping weight: 50 Kg

Shipping dimensions: 750 x 700 x 750 cm

TEMPERATURE

Extrusion temp.: 270°C

Operating temp.: 15° -32 °C

Heated bed: fino a 120°C

Temperate chamber: 50°C

MECHANICS

Build plate: tempered glass 4 mm and heated plate

XY Axes: XY static support: Cemented linear bars 12 mm INA

XY support dinamic: Self-lubricating linear bars 2x10 mm cad.

Z Axis: N° 4 Cemented linear bars 12 mm INA, n°4 trapezoidal bars 10x2 IGUS.

Stepper: NEMA 23 stepper motors.

Printer speed: 10- 150 mm/s

Transfer speed: 10-300 mm/s

OPERATING REQUIREMENTS

Power: 240-400 V AC 50 Hz 350 Watt

SOFTWARE

Open source

OPERATING SYSTEMS

Windows, Mac e Linux