



Professional 3D Printers



**THE BEST “FFF” SYSTEM
FOR INDUSTRIAL PRODUCTION**

GIMAX3D SRL—VIA SIENA 9—59013—MONTEMURLO—PRATO—ITALY

www.gimax3d.com—info@gimax3d.com—0574985270

TECH SPEC

- **BRUSHLESS MOTORS WITH ABSOLUT ENCODER AND INTEGRATED MEMORY**

Professional motorization system with brushless motors that manage a power graduated according to the need and control to the hundredth of a millimeter of the positioning of the X-Y-Z axes thanks to the system with absolute encoder integrated in the motor. With this particular solution all the mechanical "zero machine" switches are also eliminated as the machine positions are kept in the memory in any condition (even when the machine is off).

- **RIGID MOVEMENT OF THE AXES "X/Y/Z" ON BALL SCREW (WITHOUT BELTS AND PULLEYS)**

The absence of pulleys and belts on the movement of the axes guarantees absolute precision and repeatability, avoiding the intrinsic positioning play in the management of belts and pulleys.

- **PRECISION OF 1/100 DI MM.**

- **100% REPEATABILITY OF THE PIECES BOTH IN SINGLE PRINTING AND IN SERIES**

Thanks to the advanced mechanics, the absence of mechanical zero switches and the CNC electronics, we guarantee the total repeatability of the molded pieces.

- **LIQUID COOLED DOUBLE EXTRUDER**

The double extrusion head, which offers the possibility of two-component printing of a single piece or of depositing soluble support material, is entirely cooled with a special liquid which allows the heads to work 24/7 without suffering from the high heat due to the melting of the material and the internal temperature of the chamber.

- **INTEGRATED PC WITH TOUCH SCREEN 10"**

- **ETHERNET INTEGRATED SYSTEM**

Grazie Thanks to the PC integrated with the motherboard and the Ethernet system, the printer can be managed directly from your PC. It is also given the possibility of downloading the print DataLog for each single piece thus allowing the validation of the printed piece.

- **INTEGRATED SYSTEM OF MOVEMENT AND FILAMENT END**

Thanks to the optical filament control system, the machine detects both movement and its possible absence during printing and pauses, allowing it to be replaced.

- **SELF LEVELING WITH BED MAPPING**

Mapping, leveling and automated bed management using high precision sensors and CNC control.

- **DRYER ON-BOARD**

Filament drying system with On-Board temperature control and maintenance.

- **CE CERTIFICATION**

- **MADE IN ITALY**

MODEL	Y3s
MARKET RELEASE	2020
CATEGORY	PROFESSIONAL - INDUSTRIAL
TECHNOLOGY	EXTRUSION (FFF, FDM...)
FILAMENT DIAMETER	1.75 MM.
OS COMPATIBILITY	MAC OS, MICROSOFT WINDOWS
XY ACCURACY	0.01 MM
MAX. PRINTING BED	400 X 400 X 400
MAX VOLUME	64 L
MAX PRINTING SPEED	120 MM/S
MIN. LAYER	0.05 MM
MAX EXTRUSION TEMPERATURE	480°C
MAX BED TEMPERATURE	160°C
MAX CHAMBER TEMPERATURE	120°C
DIMENSION/WEIGHT	900X1000 H1800/max 2200 — 450 KG.
POWER INPUT	240V AC 50/60 HZ
MAX POWER	3,4 KW/H
HEATED PRINT BED	YES
SELF LEVELING BED	YES
CLOSED CHAMBER	YES
DRYER FILAMENT ON-BOARD	YES
DOUBLE EXTRUDER	YES
INDEPENDENT EXTRUDER	NO
TOUCHSCREEN	YES
ON-BOARD CAMERA	NO
MOBILE APP	YES
USB	YES
ETHERNET	YES
WIFI	YES (OPTIONAL)
GENERIC MATERIALS	PEKK, PEEK, PAKK, ULTEM 9085, PP , PPSU, PCPBT, ABS, ASA, PCABS, CARBONPEEK, CARBONPEKK, PPSCARBON, PPCARBON, PACARBON

Y3s is a professional 3D printer produced by **Gimax3D**.

Gimax3D is an Italian manufacturer specialized in the design and construction of professional high temperature 3D printers.

This professional 3D printer is suitable for a variety of sectors such as: Automotive, Aerospace, Oil & Gas, Industrial Design, Mechanical.

Gimax3D's goal is to provide high quality professional 3D printers and materials to all types of companies.

