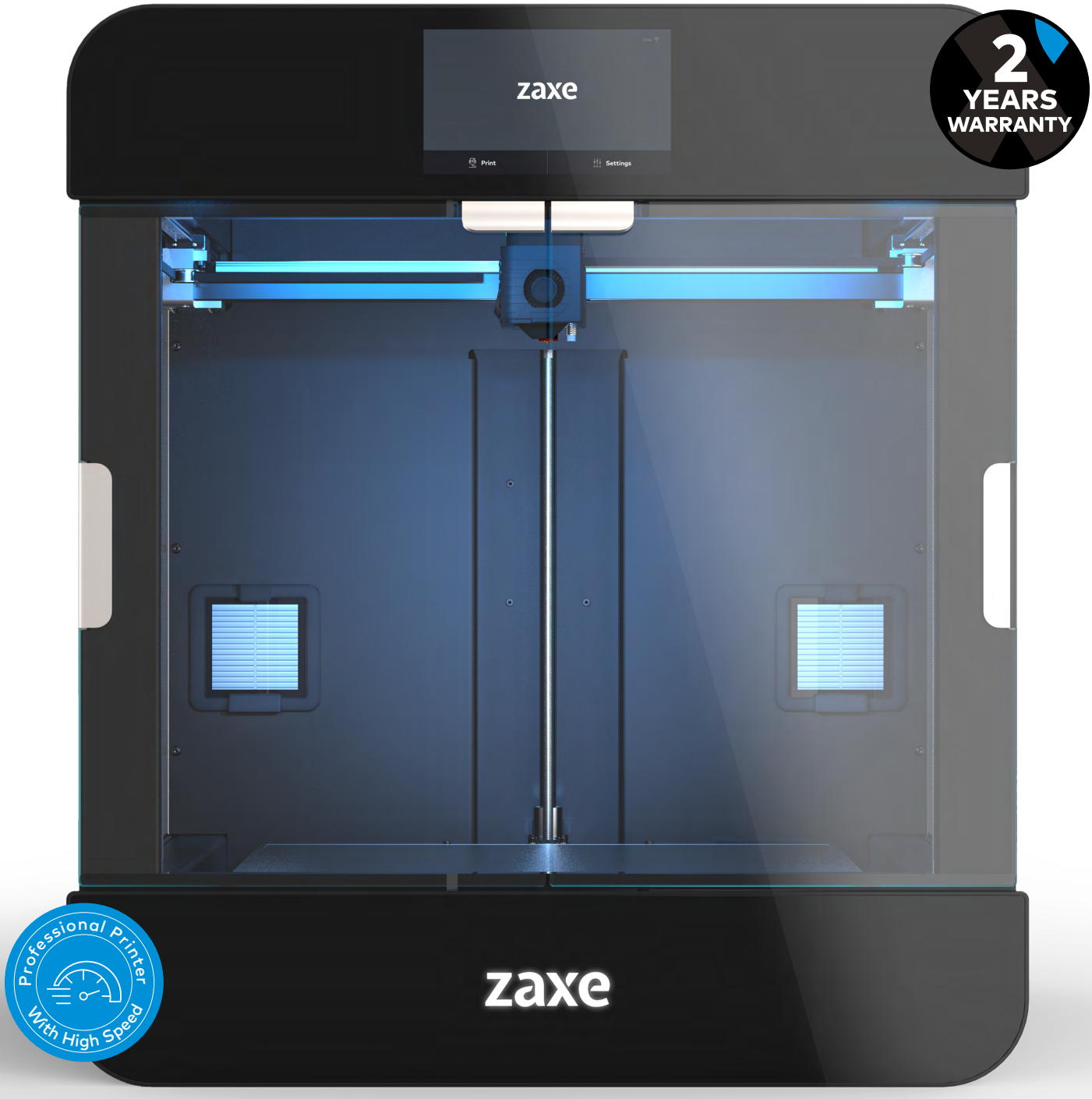
zaxe Z3S

For People Who Produce



We believe in the magic of innovation

CON-TENTS

zaxe Z3S

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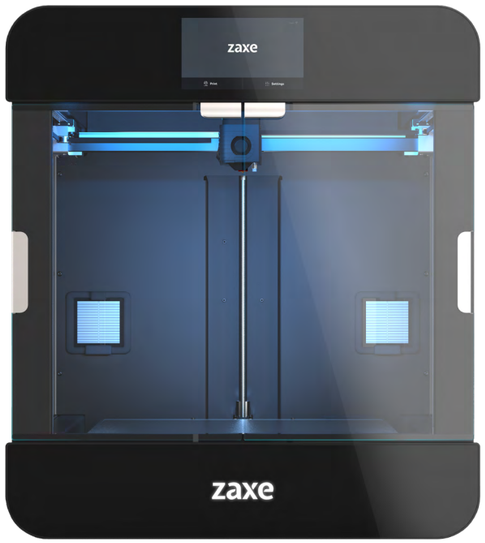

www.zaxe.com

zaxe Z3S

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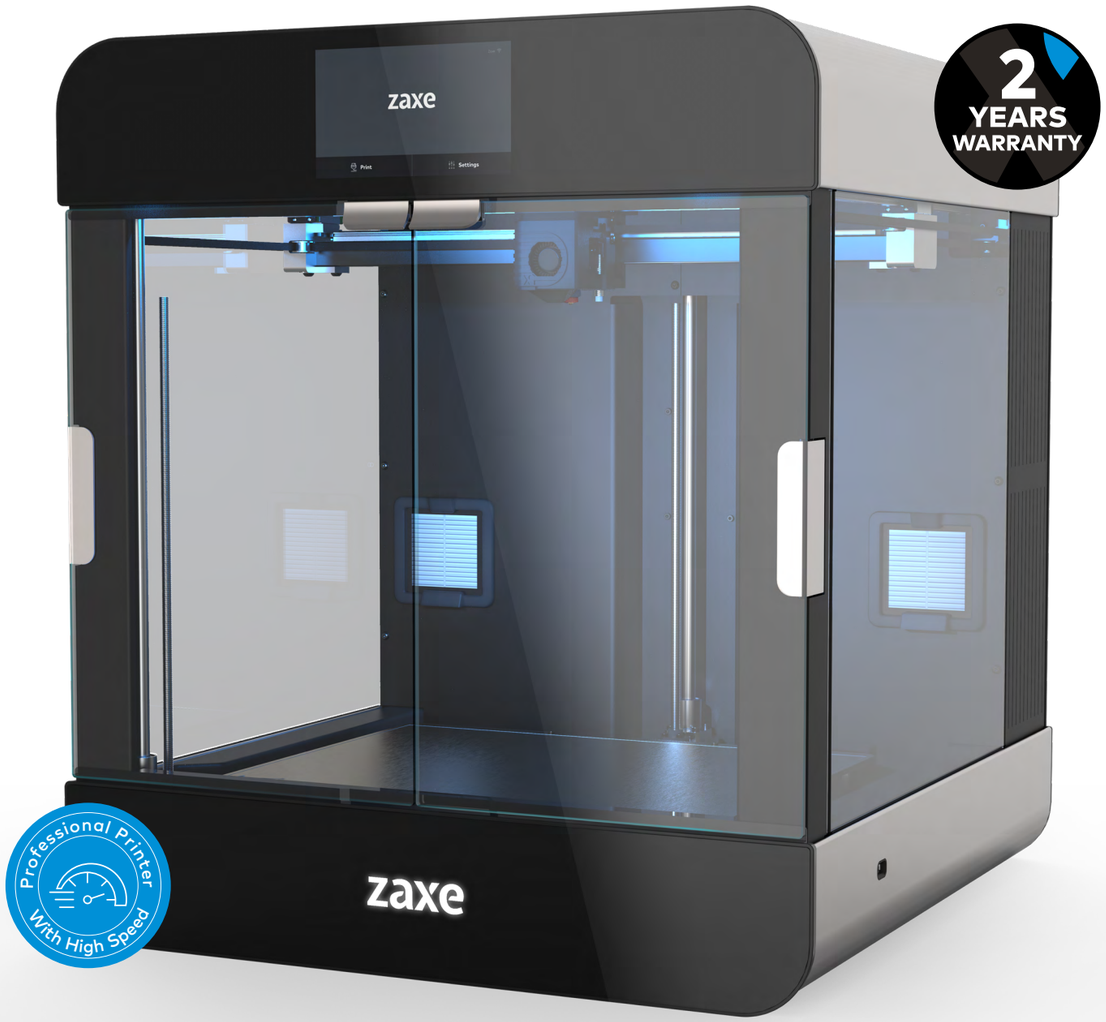


500mm/sec Max Speed

20000mm/s² Max Acceleration

Powerful Processor

Wifi Connectivity

Cloud Connectivity

7" Touch Screen

Easy to Use Software

Meet with zaxe Z3S

Product Specifications

Printing Specifications	
Nozzle Diameter	0,40/0,60/0,80 mm E3D Revo HF
Layer Thickness	50-800 Micron
Printing Table Material	Double-Sided, Flexible PEI Sheet
Printing Table Max. Temp.	110°C
Printhead Max. Temp.	300°C
Software & Connectivity	
Software	xDesktop
File Types Supported	.stl, .obj, .step, .stp, .amf, .3mf, .x3d
Connectivity	Wi-Fi, Ethernet, Flash Disk
Material Specifications	
Feeding Material	Filament
Filament Diameter	1,75 mm
Materials Supported	PLA, ABS, PETG, TPU, *PET-CF15, *Carbon Fiber Filament and Other *Composite Materials. *With E3D Revo ObXidian HF nozzle
3D Printer Specifications	
3D Printer Size	585 x 665 x 667 mm
Printing Volume	400 x 300 x 350 mm
Printing Area	Closed, Heat Insulated
Print Sensing	Automatic Printing Detection Tech. with AI
Printhead	E3D Revo High Flow
Maximum Printing Speed	500 mm/sec
Maximum Acceleration	20K Acceleration (Single Wall Printing)
User Interface	7" Color Touch Screen
Calibration	Automatic & Z Tilt
Camera	Yes / AI Camera
Power Failure Protection	Yes
Filament Sensor	Yes
Filter	HEPA + Carbon Filter
Warranty Duration	2 Years

7" Touch Screen

Experience the ease of easy adjustment with the Z3S's 7-inch capacitive touchscreen.

Maximum Speed

Maximum printing speed; 500 mm/sec speed rate.

Maximum Acceleration

Maximum acceleration 20K Acceleration (Single Wall Printing)

E3D Revo HF

Achieve optimal productivity without fear of clogging with the new E3D Revo HF Hotend from Z3S.

AI Camera

Observe your 3D printing process wherever you go thanks to our AI Camera and xCloud, which keeps an eye on the print area.

NFC Sensor

The NFC sensor will automatically detect the color and type of filament and tell you exactly how much material is left.

Filament Sensor

The built-in filament sensor will let you know if a filament is inserted.

Power Failure Safety

With Zaxe 3D printers, there is no need to fear a power failure. The system will stop your printing and the process will automatically restart when power is restored.

Hepa Filter

The Z3S comes with 2 HEPA filters designed to prevent the spread of odors and harmful microparticles generated during the printing process.

Cooling System

We have designed a highly optimized cooling system to eliminate the possibility of ZBoard overheating during intensive production.

110° Opening Glass Door

We have designed a hinge system that can be opened at a 110-degree angle, allowing Z3S users to comfortably enter the machine for maintenance.

Safe and Stable

Equipped with numerous security features, Z3S will provide you with a stable and secure printing experience.

Feedback Led Lights

White — Settings and During Printing

Blue — Standby Mode

Red — Heating Process

Green — Printing Completed

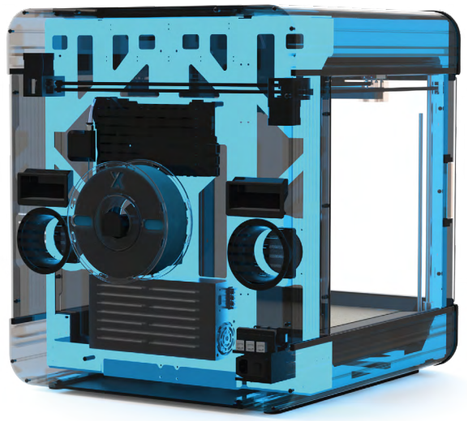
Orange — Maintenance or Calibration

EASY USAGE

7" CAPACITIVE TOUCHSCREEN CONTROL

Adjust your settings in the easiest way. Experience the comfort of the Z3S's 7-inch capacitive touchscreen with our all-new user-friendly interface. Monitor the printing process and get consistent results.

Meet with zaxe Z3S



STABLE METAL BODY

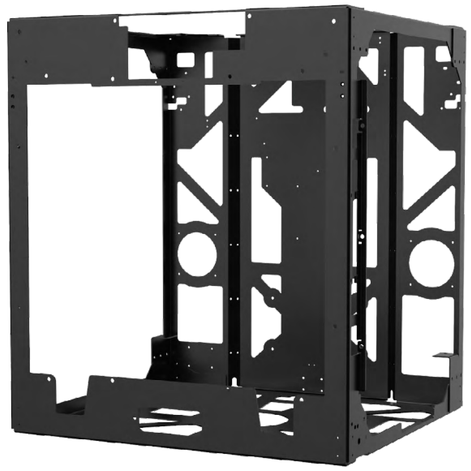
Level Up with New Design

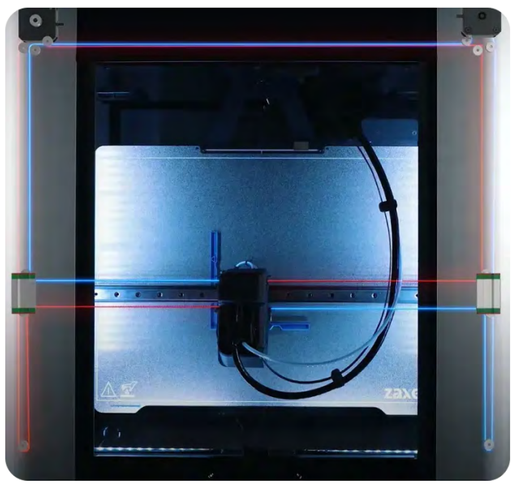
Vibration during high-speed printing can inevitably cause defects in your print. If the 3D printer does not have a stable housing, this can reduce the quality of production. The stability of the printer is important to ensure perfect results.

Aluminum Body

The base of the Zaxe Z3S consists of a robust aluminum body manufactured in one piece. The tempered glass surface was chosen so you can see your print from every angle. The Z3S is built with the best parts available on the market and designed to deliver the best 3D printing experience you can hope for.

The stable and robust body of the Zaxe Z3S can print quietly for hours at high speed, ensuring perfect precision in every print. Moreover, it has an eye-catching design and creates an unforgettable first impression.





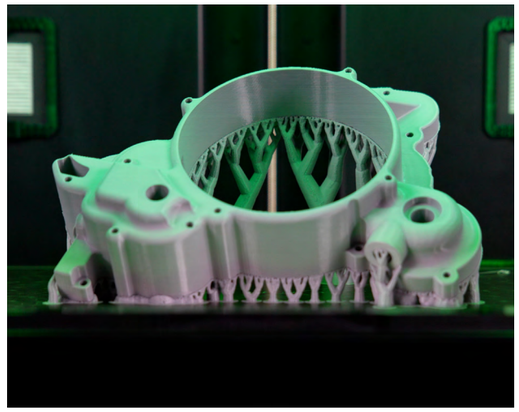
HIGH MECHANICAL DURABILITY

The temperatures in your printer determine how quickly each layer cools after application. If each layer cools at different temperatures, it will cause inconsistencies in your final product. Parts that cool differently from others will form cracks and make your print highly unstable.

PASSIVE HEATED CHAMBER

3D printing with compatible materials is easy. But some filaments refuse to cooperate with you. These materials require precise temperatures to deliver good results. Zaxe Z3S's passively heated cabinet stabilizes temperatures in the printer, creating an enclosure that prevents heat imbalances that can cause defects in your final product.

By creating a print area with precise temperatures, you ensure better dimensional accuracy and function, especially with difficult-to-print industrial filaments.

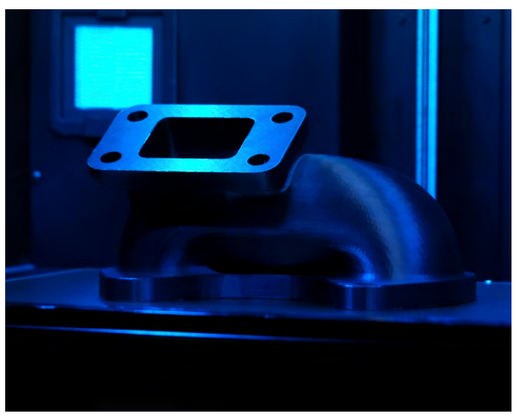


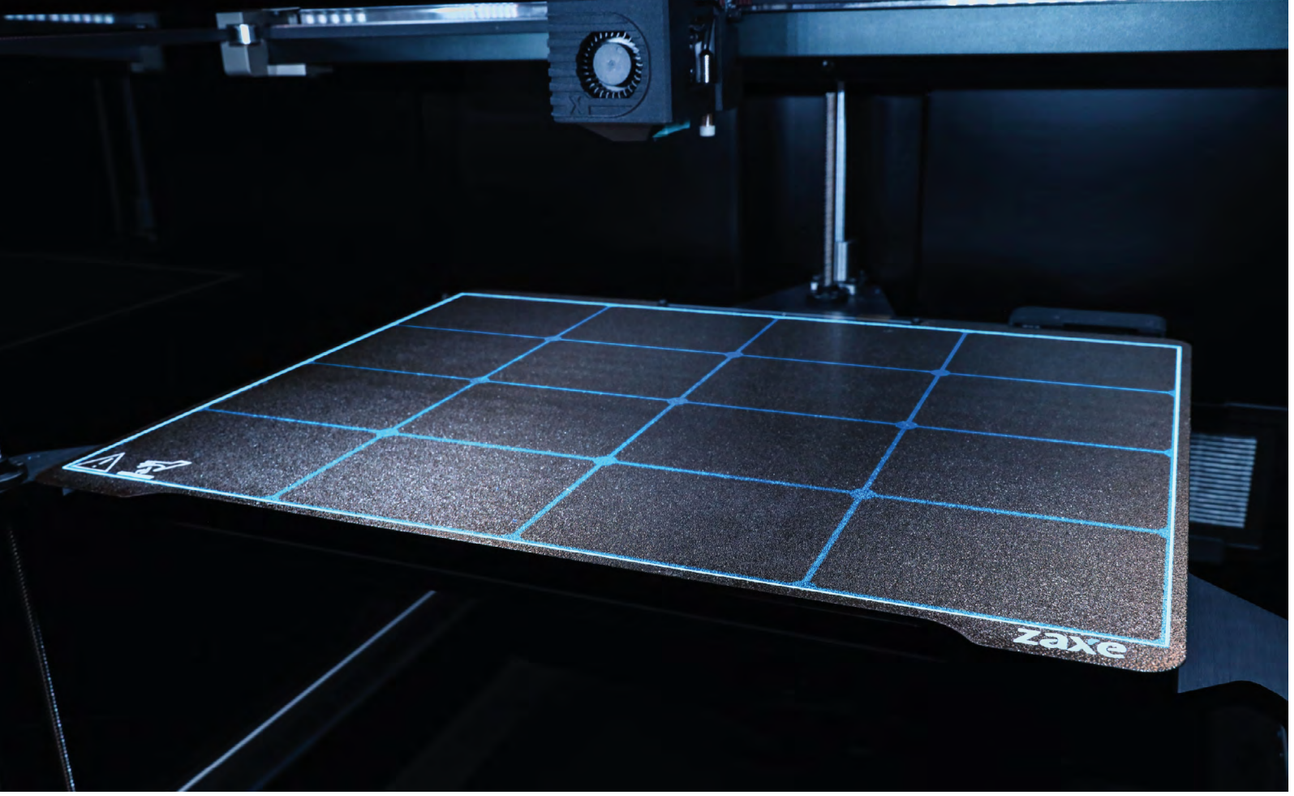
GREAT LAYER BONDING

Inconsistent temperatures in your 3D printer can cause layers to not stick together properly. You may see small splits between layers and this can completely ruin the form and function of your print. Its passively heated cabinet manages the heat in the printer to ensure that your layers don't cool down before sticking perfectly.

LOW CURVING

Warping occurs when your print shrinks too much and separates from the printing table. By not allowing your print to solidify before the process is complete, a passive heated cabinet keeps the dimensional accuracy exactly in line with your original design and ensures repeatable results every time you use your 3D printer.





AUTOMATIC CALIBRATION

For inexperienced users, the most challenging part of 3D printing can be calibration. Even if you are an expert in additive manufacturing, manually calibrating your print is time consuming.

Zaxe Z3S introduces a new automatic calibration system to guarantee perfect results with a reduced setup process. Get the right results every time thanks to the Z3S's inductive sensor.

Z-TILT CALIBRATION

With Z-Tilt Calibration, the table touches 3 different points and corrects itself for perfect printing. This way you can always be sure that your platen is perfectly flat and achieve better results.

MESH CALIBRATION

The Mesh Calibration System will pass through 25 points on your printing table and measure the distance between these points to provide a more precise printing experience.

PEI TABLE

Double-Sided Magnetic Pei Printing Table

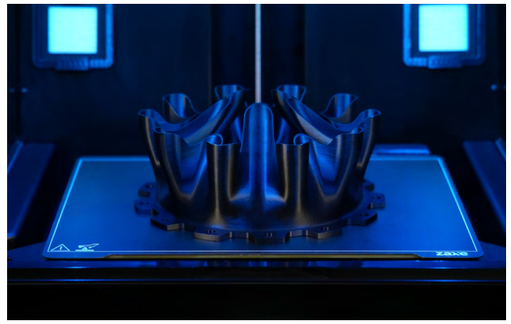
You can easily remove your print with our steel magnetic printing tray with springs on both sides. Thanks to its flexible and rough surface, your prints will come out smoothly.
The level of the plane directly affects the print quality. That's why we use a special aluminum to ensure smooth surfaces.

Textured or Smooth

Have the ability to choose between a smooth or rough surface texture for different prints.

Flexibility

Get your print without the need for a spatula. The flexible steel spring construction allows it to bend, making it easier for you to pull your print.



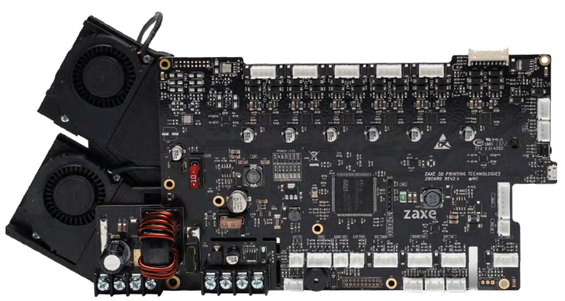
SUPERIOR PRINTING AREA

The Zaxe Z3S comes with the largest print volume our company has ever offered. With a print volume of 400x300x350mm, the Zaxe Z3S allows you to print larger products or make many small models in a single batch.

zBOARD

At the heart of the Z3S is the zBoard, a 32-bit processor. It is equipped with Raspberry Pi 5, a new system-on-system design.

zBoard provides the power and speed to take your manufacturing productivity to new heights.

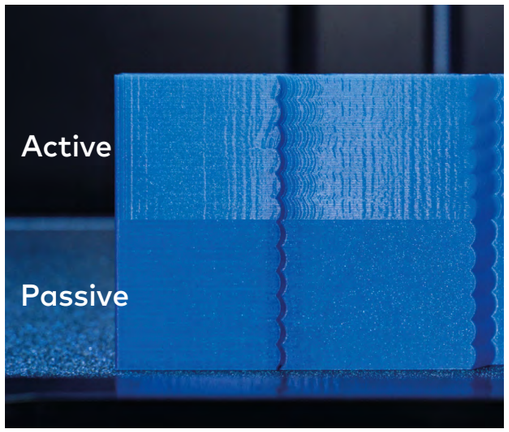


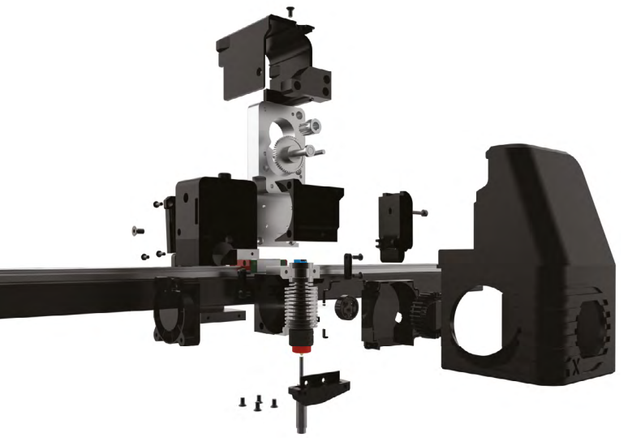
INTRODUCTION SHAPER

The input shaping algorithm in the Klipper software prevents vibrations at high speeds, allowing you to print more precisely at high speeds.

Klipper

www.klipper3d.org





E3D REVO HF HOTEND

Achieve optimal productivity without fear of clogging with the new E3D Revo HF Hotend for the Zaxe Z3S. The E3D Revo HF will extend the service life of your Z3S and ensure you consistently achieve the same performance after every print for years to come.

The new generation E3D Revo HF Hotend guarantees that your printing process will run smoothly without fear of clogging.

PLA, ABS, PETG, FLEX, PET CF-15, ASA, PA, TPU and many different filaments can be printed with the E3D Revo HF Hotend.

DISTRIBUTED NOZZLE OPTIONS

Zaxe offers several different nozzle sizes from 0.40 mm to 0.80 mm. You can achieve incredible precision and resolution using a 0.40 mm nozzle or increase production speed using a larger nozzle. Have the freedom to choose every aspect of your production line and print at your own pace.

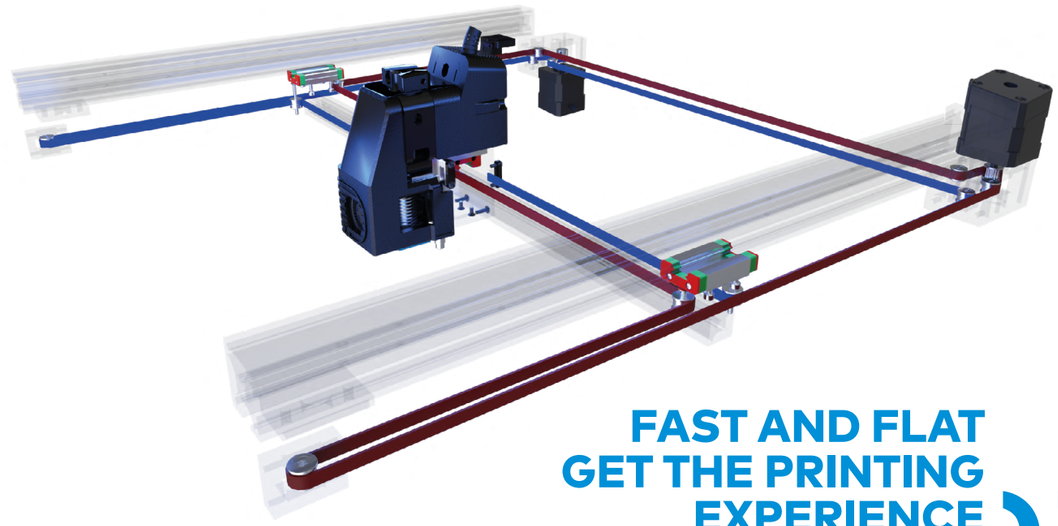
Red
0,40 mm

Blue
0,60 mm

Green
0,80 mm

CORE XY MECHANICS

THE LATEST MILESTONE OF LOYALTY, POWER AND SPEED

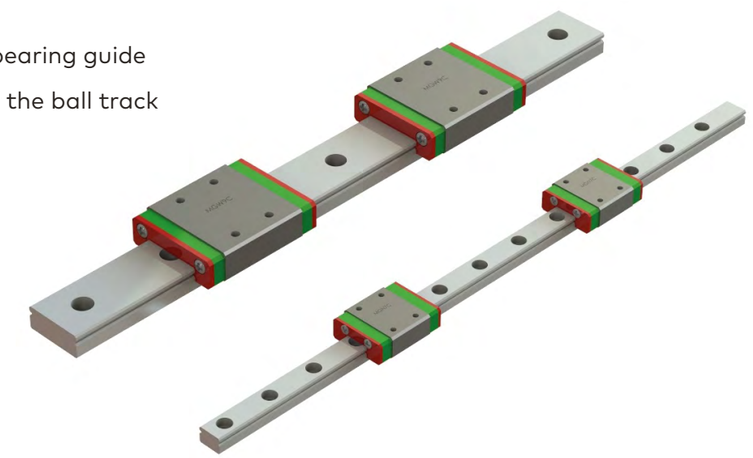


FAST AND FLAT GET THE PRINTING EXPERIENCE

Thanks to the strong and stable mechanical structure of the Core XY system, you get a quiet and consistent printing experience every time you use your 3D printer. Zaxe products are now more precise and faster.

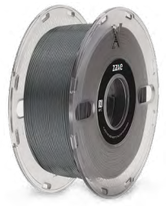
HIWIN RAIL LINEAR GUIDE SERIES MG

- 2-row rotation ball bearing guide
- 45° contact angle of the ball track
- Compact design
- Thin and wide rails



FILAMENT OPTIONS

Experience seamless printing with filaments that are fully compatible with Zaxe 3D Printers. Zaxe filaments give you a wide choice of colors. Filaments are made more visible with our new transparent spool design.



Zaxe ABS

ABS is a popular choice among 3D printer users due to its impressive properties. It is preferred by professionals for its durability, low cost and impact resistance.

Color Variations

Black, White, Natural, Grey, Silver, Gold, Yellow, Red, Cherry, Pink

L. Blue, L. Green, D. Green, Orange, Brown

Zaxe PLA

PLA is one of the easiest materials to print with. It is a great choice for inexperienced printers and professionals. It is a great material for models with its smooth surface.

Color Variations

Black, White, Natural, Grey, Silver, Gold, Yellow, Red, Cherry, Pink

Purple, L. Blue, L. Green, D. Green, Orange, Brown

Zaxe PETG

PETG combines the durability of ABS and the simplicity of PLA. Its chemical resistance makes PETG a robust material suitable for a variety of environments. PETG also has great thermal properties.

Color Variations

Black, White, Natural, Yellow, Red, Blue, L. Green

Zaxe FLEX

As the name suggests, FLEX is the best option for those looking for a flexible filament. By mixing plastic and rubber, a material with impressive shock absorption and flexible properties is created.

Color Variations

Black, White, Yellow, Red, L. Blue, Turquoise, Orange

EXTERNAL FILAMENT MATCHING

HIGH QUALITY WITH EVERY FILAMENT PROVIDES POWERFUL RESULTS

Any printer can achieve good results with a collaborative material like PLA, but there are few printers that can achieve world-class precision like Zaxe 3D printers using more rigid materials.

Zaxe printers deliver great results with 3rd party filaments, so you can print as much as you want without thinking about filament type or brand.

BASF ULTRAFUSE

ABS

Color Variations

Black, Grey, White

BASF ULTRAFUSE

316L METAL FILAMENT

Color Variations

Black, Grey, White

BASF ULTRAFUSE

PET CF15

Color Variations

Black, Grey, White

BASF We create chemistry

colorFabb

KIMYA 3D materials by ARMOR

igus plastics for longer life

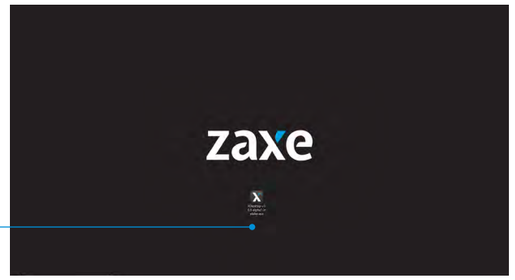
polymaker

xdesktop

ALL YOUR 3D PRINTING NEEDS
IN A SINGLE SOFTWARE

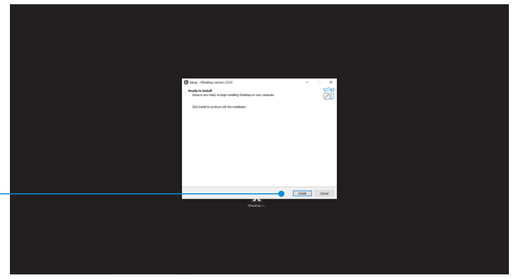
1 Software Installation

Install the xdesktop software you downloaded from www.zaxe.com on your device.

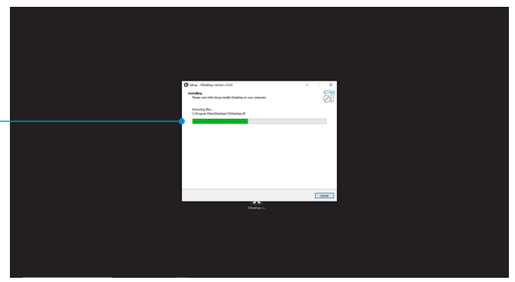


Click on the X icon to start the software installation wizard.

Click on Install to start the installation.

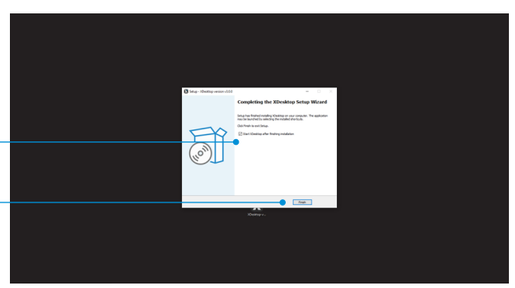


Software installation in progress.



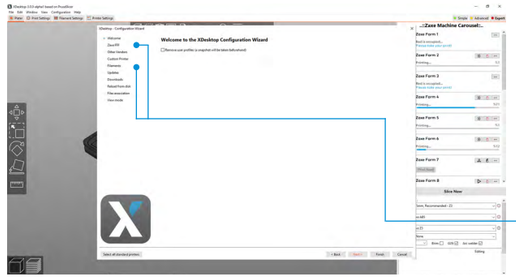
If this field is selected after the software installation is complete, xdesktop will start automatically after closing the installation wizard.

Finish the installation wizard by clicking Finish.

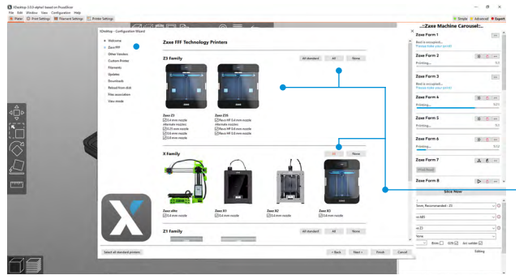


Configuration Wizard 2

Make your settings in the configuration wizard that is launched automatically when the xdesktop software is opened.

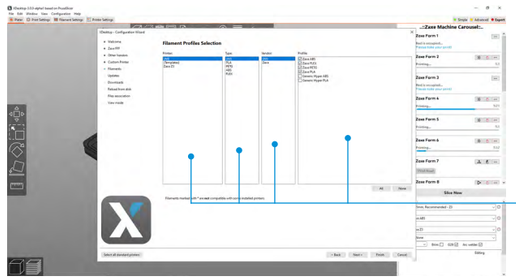


Configuration Wizard

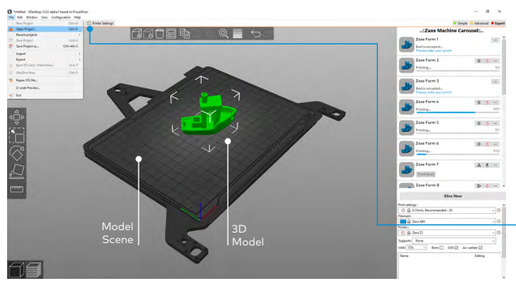


You can select the 3D Printer model you want to add or you can add or remove all Zaxe 3D printers by clicking on the “All” box.

With Wi-Fi or wired connection, you can manage all your 3D prints via xdesktop software and control your production line.



In this area, you can make filament selections according to your 3D printer and material properties.



With the “Open Project” command in the File tab, you can open a designed 3D model in xdesktop software.

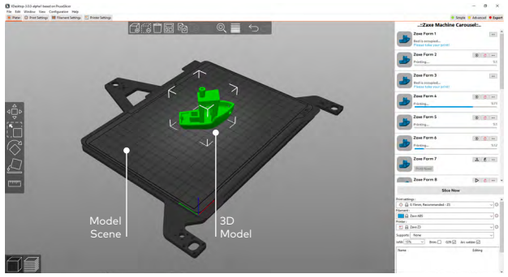
Supported file formats include .stl, .obj, .step, .stp, .amf, .3mf, .x3d and a wide range of file formats.

xdesktop

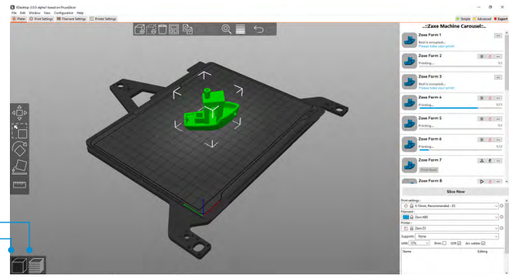
ALL YOUR 3D PRINTING NEEDS
IN A SINGLE SOFTWARE

3 Editing And Printing

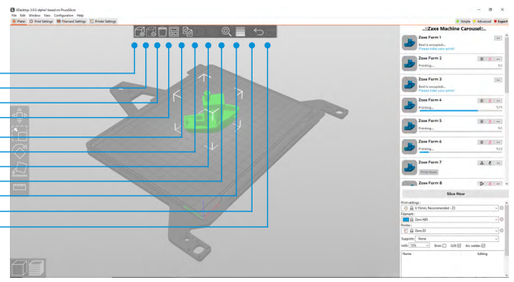
With its easy-to-use interface, you can easily edit and print 3D models and scenes.



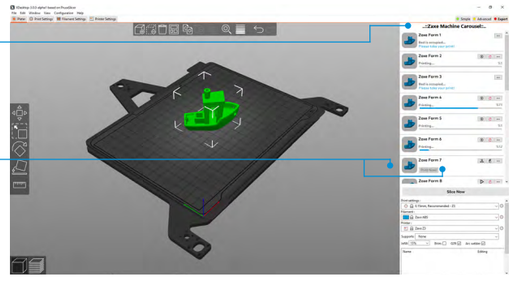
You can make adjustments such as rotation, dimensioning, etc. using the adjustment menu on the left side of the interface.



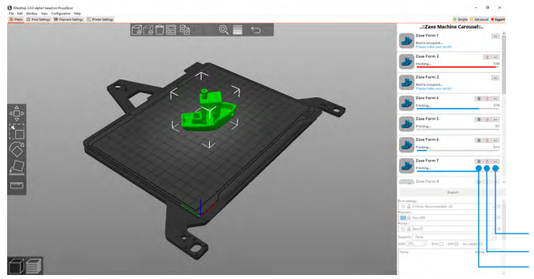
You can make adjustments such as insertion, deletion, alignment, etc. using the settings menu at the top of the interface.



After editing your 3D model, you can start the printing process by clicking on the “Print” box of your 3D Printer in the “Machine Track” section on the right side of the screen.

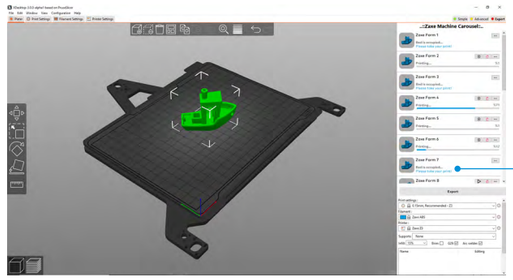


Your printing process has been started with your 3D Printer named Zaxe Farm 7.

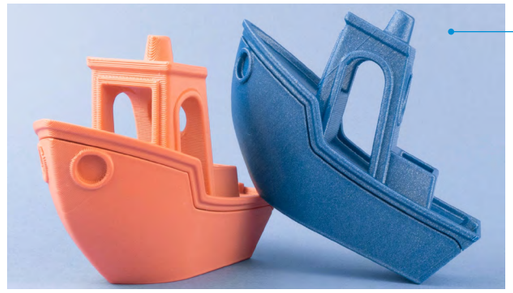


Located on the right side of your 3D Printer You can intervene in your printing process remotely with “Wi-Fi” support by clicking on the “Pause on Layer, Stop Printing or Info” checkbox.

When your 3D Printer notifies you that “The Tray is Full... Please Take Your Print” notification, you can get your 3D Print from your 3D Printer.

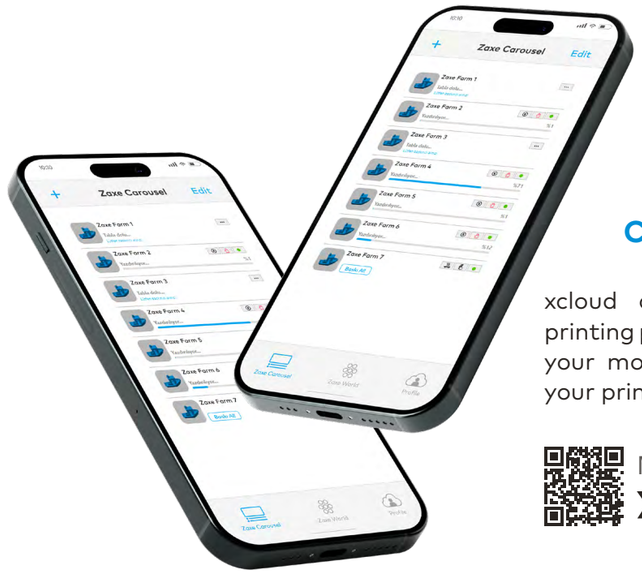


And the result! You can enjoy a high quality 3D printing experience. Thank you Zaxe ;)



Put the finishing touches with xdesktop. Move, rotate, duplicate, scale, straighten, separate and print. Enjoy countless features waiting to be discovered.

Meet with xdesktop



xcloud

Wherever You Go Stay Connected to Your Printer

xcloud allows you to monitor your printing process remotely. You can watch your model being printed live through your printer's camera.

Meet with xcloud

Actual

3D Printers and the World of 3D

3D Printed House
Netherlands

This house in Eindhoven, the Netherlands, is the result of an innovation project developed by the Eindhoven University of Technology in Van Wijnen. The 3D printed house is also appreciated for its completely original design thanks to its freedom of form.

The house consists of 24 printed concrete parts, each with a printing time of 120 hours. The house is also very thickly insulated and energy efficient with an energy coefficient of 0.25.

3D Printer Produced Bridge
Netherlands

Queen Maxima of the Netherlands inaugurated the first 3D printed steel pedestrian bridge over the canal in Amsterdam's De Wallen district.

Combining robotics and welding, engineers created the bridge with a 3D printing technique called additive manufacturing. The length of the bridge developed by MX3D company was announced as 12 meters.

3D Printed Cranium
Türkiye

Ali Çiftçi, 45, who fell from the window of his house in Istanbul and 83 percent of his skull was shattered, regained his old appearance thanks to implants prepared with 3D printers.

Titanium skull particles specially produced by the Medical Design and Production Center at the University of Health Sciences (SBU) Gülhane Training and Research Hospital were implanted into Çiftçi's head.

3D Printed Car
Japan

Honda, which makes a new invention every day in product and production technologies, put the automobile printed on a 3D printer into use.

Honda and Kabuku supported Toshima in its search for a suitable design, and covered the vehicle's chassis with panels created with 3D printing technology. Thanks to this technology, body panels can be shaped according to customer requirements.

RESEARCH AND DEVELOPMENT

Zaxe is home to a world-class Research and Development team with expertise in additive manufacturing. Every day, our engineers develop new products and continuously strive for improvement. Innovation is a valuable asset at Zaxe.

Our Research and Development department houses talented designers and engineers who aim to create the most comfortable 3D printing experience users could ask for. Team members work closely together and constantly collaborate to create an agile process.

QUALITY CONTROL IN ITSELF

What makes our 3D printers special is the detailed care each product receives before it ships. First, the parts we use to make our 3D printers are individually tested for any minor defects. If they are approved by our experts, the assembly phase begins. The assembly phase is monitored by our team to ensure the process goes smoothly.

Once the assembly phase is complete, our 3D printers are observed in the working environment for mechanical and electrical defects. Every sensor and port is tested for performance, and our printers are expected to perfectly print a complex model to check if the performance meets Zaxe standards. Only when the quality control process is complete, the 3D printers are carefully packaged and shipped to our customers.

TECHNOLOGY PRODUCTION

At Zaxe, we strive to be a completely self-sufficient business. All the hardware, software and designs we offer are created by our team of professional developers, engineers and designers. Every product we design is fully owned by Zaxe.

We believe that having more control over the design and manufacturing process of our products helps us to maintain high quality standards. With every project we work on, we strive to reach a new level of performance and efficiency.

FAQ

Frequently Asked Questions

+ What is 3D Printer and 3D Printing?

− 3D Printer; It is the technology of producing the digitally designed model in a computer environment as a hand-holdable 3D solid object. 3D Printing; It is a method of producing parts layer by layer from a 3D model using a 3D printer. 3D printing systems are generally much faster than other production systems.

+ For Which Purposes Can 3D Printers Be Used and What Are Their Uses?

− Today, 3D printer technology is widely used in many countries in jewelry, accessories, shoe design, industrial and architectural designs, civil engineering, construction, automotive industry, aerospace, dental and medical sectors, education, geographic information systems and scientific studies in different fields.

+ How to Create a 3D Drawing?

− If you want to print an object in 3D, it must first be drawn in 3D in a computer environment.
For this, paid programs such as SolidWorks, 3DsMax, AutoCAD, UniGraphics, Catia or free programs such as Zaxe xDesktop, Google Sketchup, OpenSCAD etc. can be used.

+ What is Additive Manufacturing?

− Additive Manufacturing is a process where material is added on a layer-by-layer basis, unlike CNC Milling, 3D CAD data helps interpret the object. Additive manufacturing can produce parts that are difficult to achieve with subtractive manufacturing techniques, highly complex geometries, without the need for assembly.

Are you ready to meet the **innovative solutions** of zaxe 3D printer technologies?

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Here You Can
Find Our Full
Reseller Map

All resellers and distributors have a demo unit.

All resellers and distributors have a demo unit.

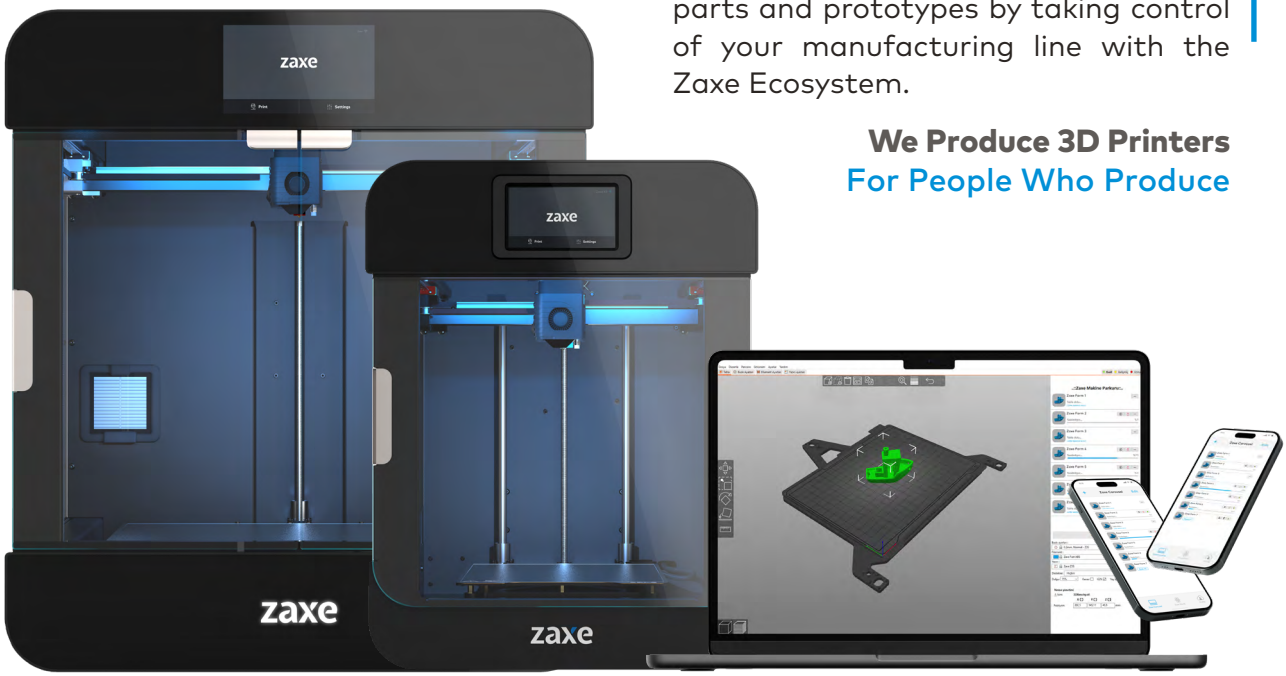
zaxe Ecosystem

Everything in One Place for All Manufacturers

UNIQUE USER EXPERIENCE

Easily produce your end products, spare parts and prototypes by taking control of your manufacturing line with the Zaxe Ecosystem.

We Produce 3D Printers
For People Who Produce



Are you ready to meet the innovative solutions of
Zaxe 3D Printer Technologies ?

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