

Large scale technical materials for the Industry

**4070 ZX**



WASP 4070 ZX is a large format 3D printer designed to print technical and robust materials such as Carbon reinforced PAs. Versatile, solid, reliable.

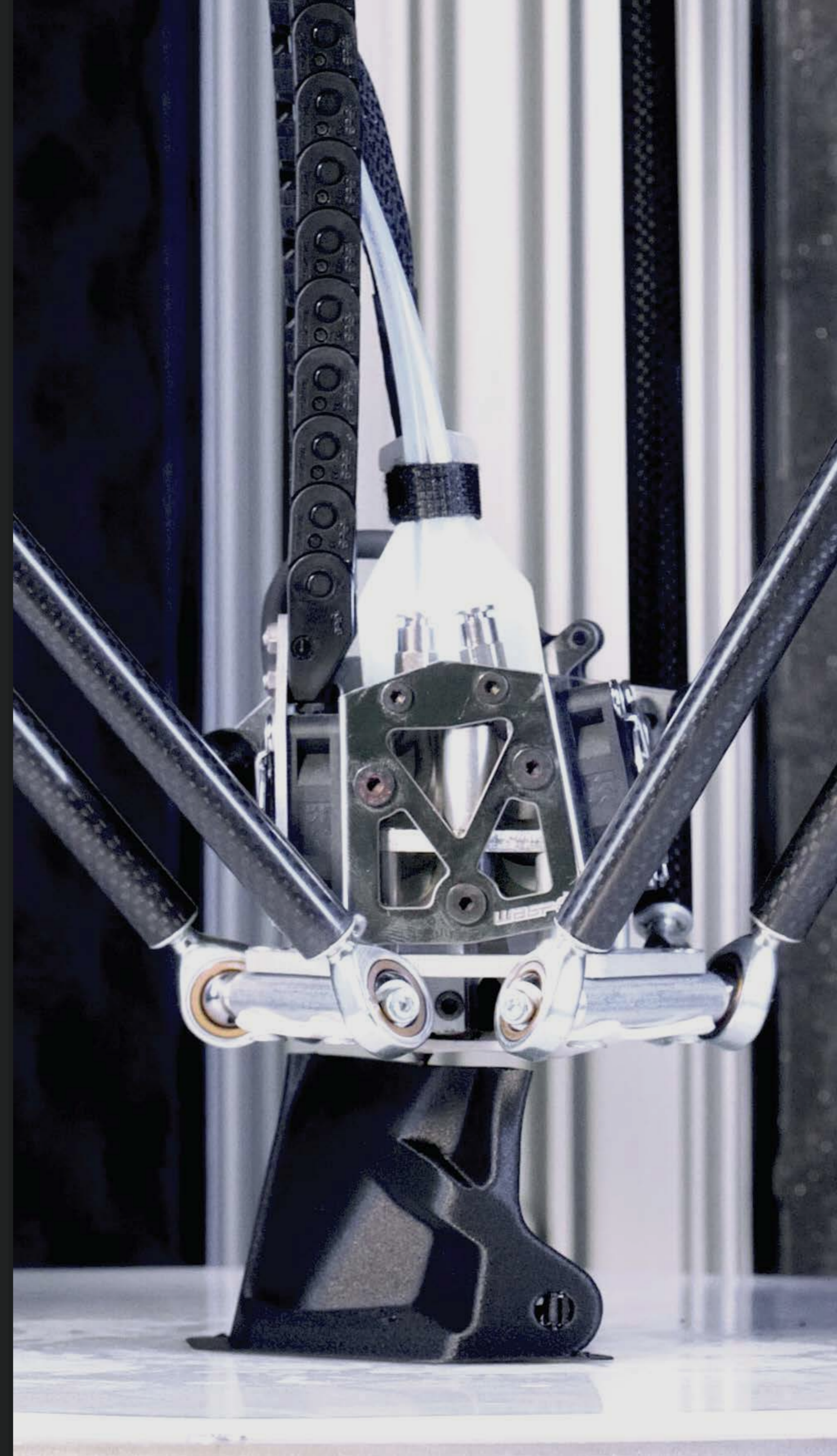
## The WASP 3D printer for technical materials.

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WASP 4070 ZX is manufactured in metal, with non-deformable steel core belts, featuring a thermal and acoustic insulation. The system of controlled active chamber temperature up to 70 °C allows an optimal printing of technical thermoplastics, while maintaining a relatively low temperature on the mechanics.

4070 ZX is provided also with new motor drivers that make the printer much quieter and more precise, combined with new, more powerful stepper motors that give it greater solidity. The mechanics have also been renewed with the introduction of the new carbon arms, which halve the weight, and the new laminated safety glass door class 2B2 able to guarantee greater thermal stability within the print volume.

WASP 4070 ZX can be connected to the network and then be managed directly via mobile phone, tablet or computer. A camera has been included inside the printer to monitor printing even from afar.





1. Print status indicator led bar

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2. Hepa filter

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3. Carbon fiber arms

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4. Steel core precision belts

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5. Heated chamber

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6. Fast and powerful delta kinematics

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7. Active vacuum buildplate control

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The innovative vacuum retention system VAC (Vacuum Active Control), allows you to replace the printing plate in a few seconds, ensuring the total absence of micro-moves during printing even at high temperatures.

The VAC also allows you to use printing plates of different types compatible with the printing material used, ensuring excellent adhesion. Easy adhesion and removal of the print with Vacuum Active Control System and dedicated buildplates.

# Industrial Line



## 3X extrusion force

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The all-metal double gear extruders offer twice the grip and three times the force compared to common extruders.

## Super hardened nozzles

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Durable super high-speed hardened steel nozzles for long prints with abrasive reinforced materials.

## Continuous printing

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Double the material available for the same print thanks to the automatic nozzle switch feature.

## Hot and cold technology

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Active heated chamber up to 70° C and cooled mechanics.

## Easily Interchangeable printing plates

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Easy adhesion and removal of the print with Vacuum Active Control System and dedicated buildplates.

## Wi-Fi Module

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Machine connected to the network for monitoring and control

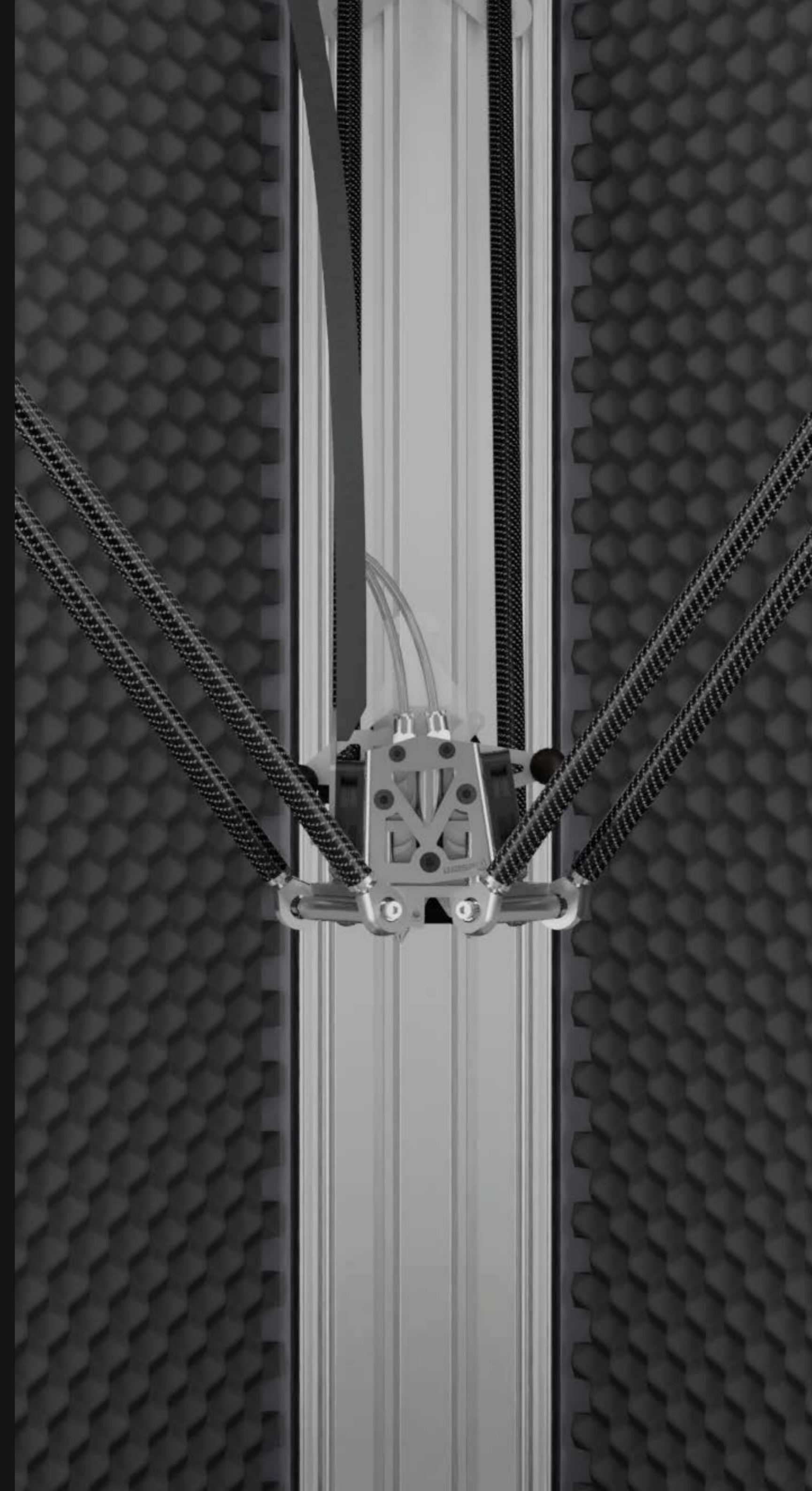
The ZEN X hotend allows the use of materials up to 350 ° C from third party suppliers but WASP reserves the right to guarantee functionality and free assistance only for use with WASP original materials.

## ZEN X extruder

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The WASP 4070 ZX is equipped with a double  $\varnothing 1.75\text{mm}$  ZEN X filament hotend capable of reaching 350°C, the ZEN X's tilting system seals and automatically lifts the unused nozzle from the print surface ensuring clean and precise printing.

The nozzles are easily interchangeable and made of super high-speed hardened steel subjected to electro nickel plating and a particular surface treatment that improves sliding characteristics. The all-metal extruders of the 4070 ZX double the grip on the filament and triple the force exerted thanks to a gearbox and a hardened steel dual gear.





Technical materials for Industrial solutions.

## Materials

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PA CARBON has good mechanical and thermal properties and offers pristine surface finish.

ABS has good heat and shock resistance, it can be sanded and painted. You can stick together pieces with acetone. Matte finish.

HIPS is a material dedicated to support ABS and it is soluble in limonene or mechanical detach.

PMMA has low mechanical resistance but good thermal resistance until 90°C. Matte or translucent Finishing.

## PRODUCT SPECIFICATIONS

Print volume: Ø 400 x h 700 mm  
Nozzle diameter: 0,7 mm  
Layer resolution: 50 - 350 micron  
Print speed: up to 200mm/s  
Travel speed: up to 300mm/s  
Connectivity: WiFi, LAN, USB  
Hotend temperature: Max 350°C  
Bed temperature: Max 120°C  
Chamber temperature: Max 70°C

## SOFTWARE

Supplied slicing software: Simplify3D®  
Supported slicing software: Cura, Slic3r  
File type: .stl, .obj, .gcode  
Supported OS: Windows, Mac, Linux

## INTERFACE

7-inch TFT touch screen display and 60 LED RGB bar

## PHYSICAL DIMENSIONS

Printer dimensions: 85 x 77 x 195 cm  
Printer weight: 95 kg  
Packaging dimension: 100 x 100 x 230 cm  
Weight with packaging: 250 kg

## POWER REQUIREMENTS

Input: 220/240 V 50/60 Hz (110V available)  
Power consumption: Max 3Kw  
Average power consumption: 0,6Kw

## ENVIRONMENT REQUIREMENTS

Operating temperature: 15-30°C  
Storage temperature: 0-30°C

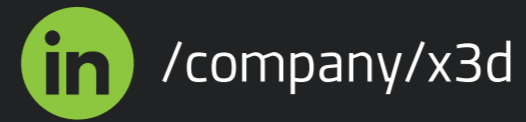
## MECHANICS

Frame: aluminum, steel, laminated glass.  
Bed: machined aluminum with interchangeable plates.  
Movement: nylon wheels on anodized aluminum sliders, PU steel core belts.  
Insulation: thermo-acoustic polymer foam.

## MATERIALS

WASP official: ABS, HIPS, PA CARBON, PMMA.  
Other: PLA, PETG, PC, PC+ABS, PPS, PVA, ASA.

# Technical Details



Industry 4.0 compliant technology. 3MT HDP is designed to print large scale objects with plastic granules.



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