Large scale printing for flexible materials

4070 FX

FLEX

X3D
ENGENHARIA INVERSA
E FABRICO ADITIVO

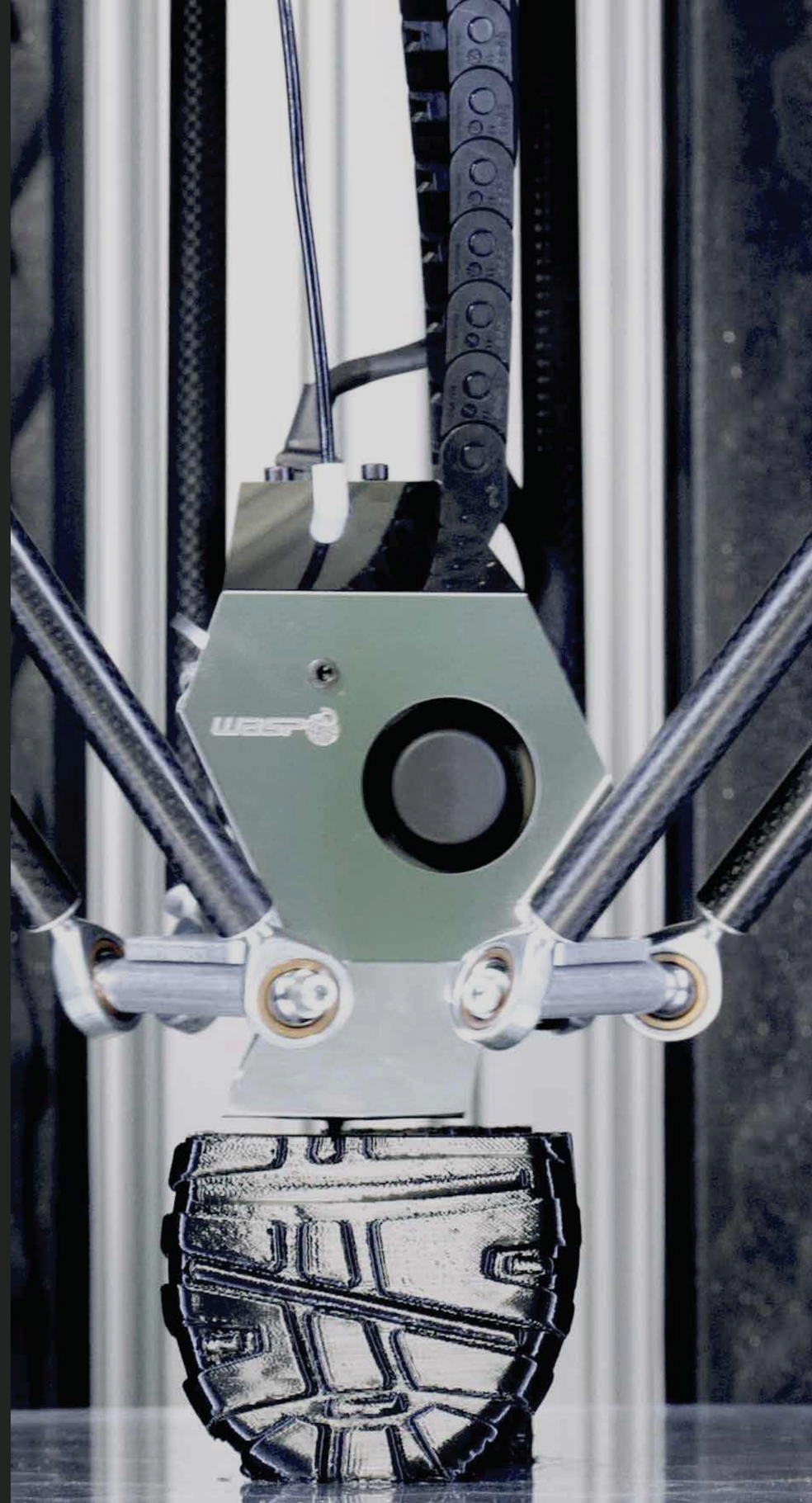
www.X3D.pt

WASP 4070 FX is a large format 3D printer designed to print flexible materials down to 50 shore A. Fast and precise flexible prints.

WASP 4070 FX
3D printer for flexible materials.

WASP 4070 FX 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 FX, 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.



1. Up to 1.2mm nozzles

2. Carbon fiber arms

3. Steel core precision belts

4.Print status indicator led bar

5. Fast and powerful delta kinematics

6. Heated chamber

7. Active vacuum buildplate control

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

Direct drive extruder

Compact and strong, compatible with nozzles up to 1.2mm.

3X extrusion force

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

2.85 Flexible materials

Direct-drive 2.85 mm filaments technology, designed for flexible materials down to 50 shore A

Infinite printing

5kg spools ready for massive prints.

Easily interchangeable printing plates

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

Wi-Fi module

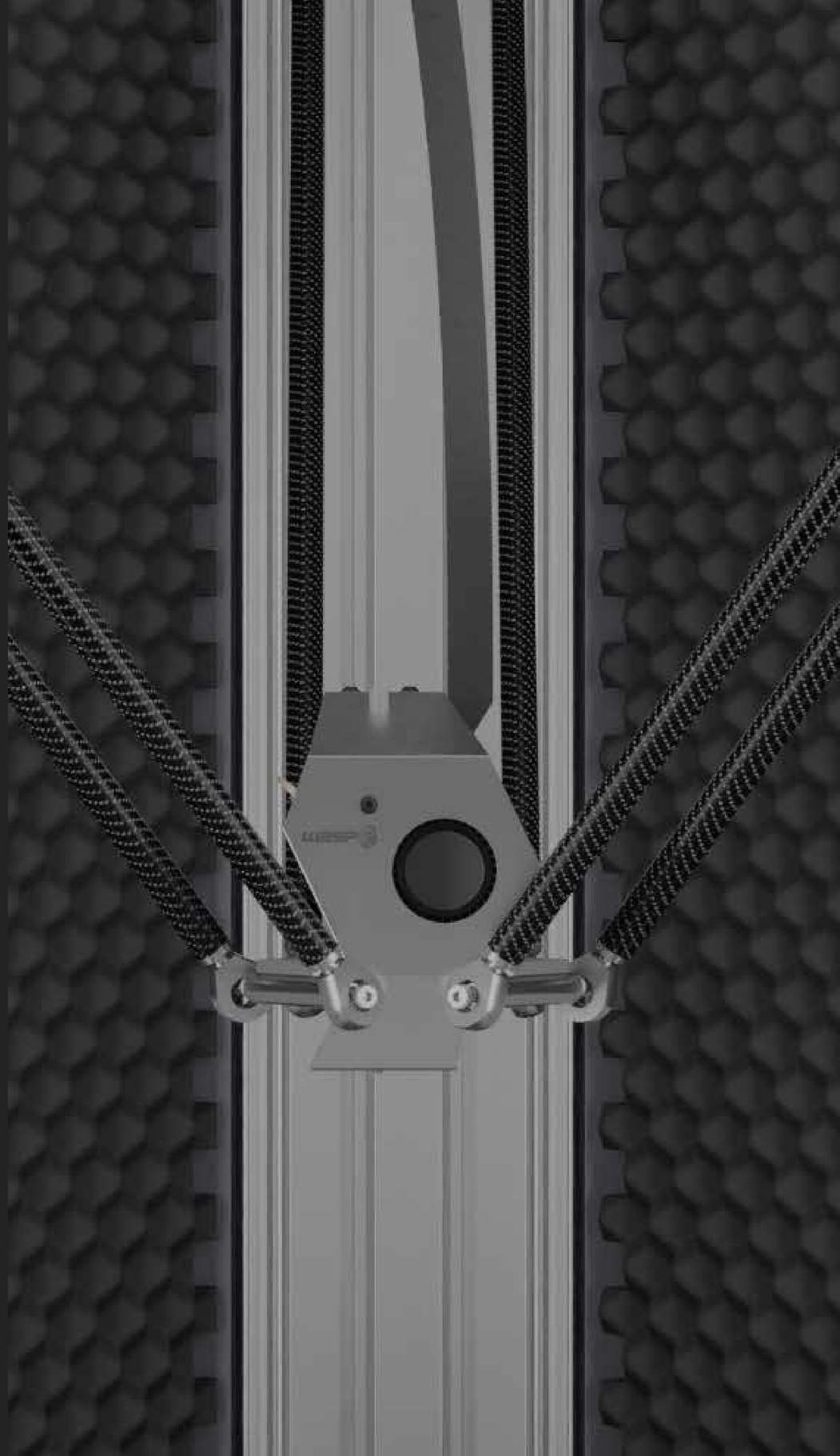
Wi-Fi module for support remote control

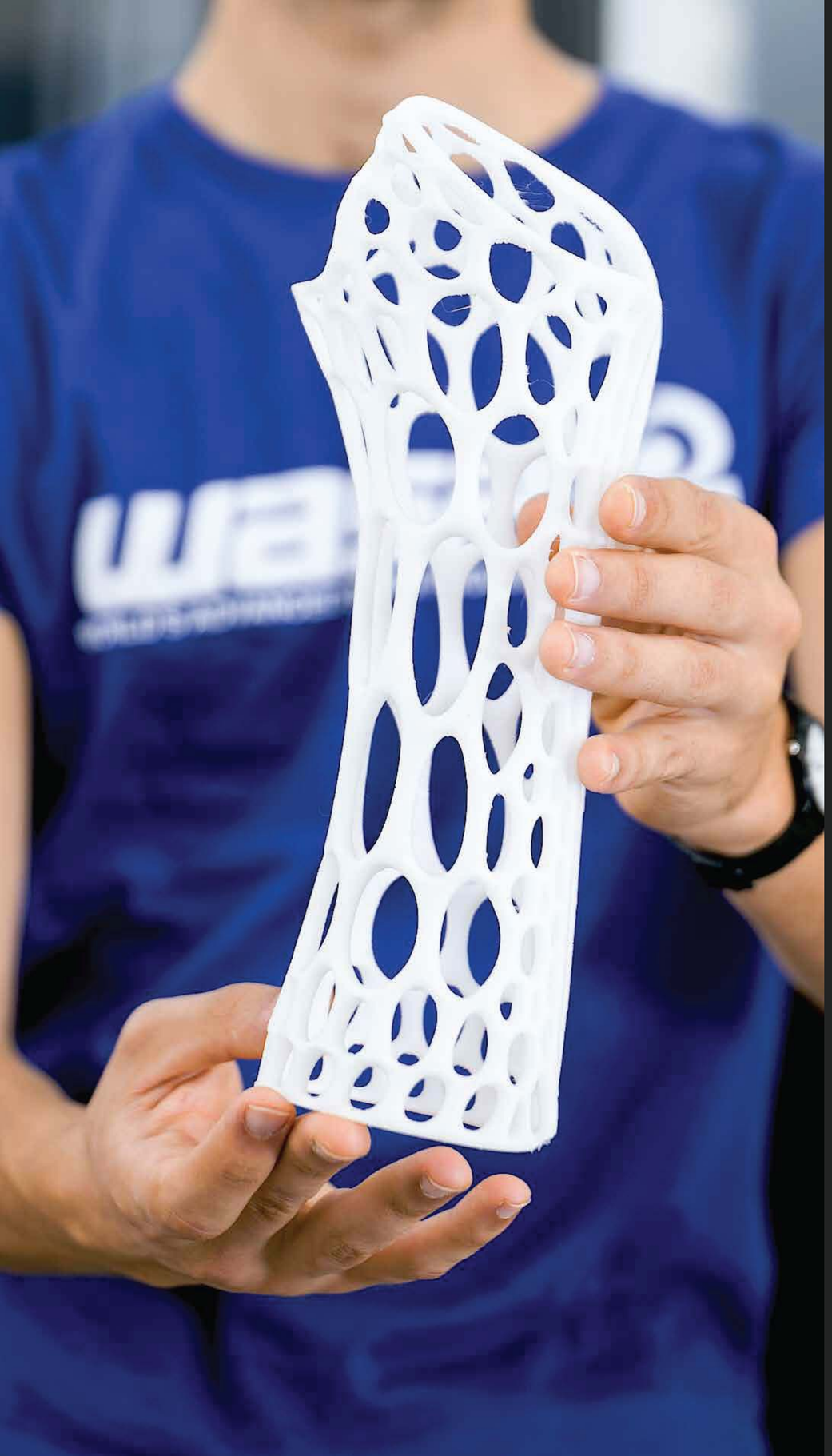
The extruder is designed for flexible materials and more in general for medical applications with materials like polypropilene.

FX extruder

The FLEX extruder of the 4070 FX is equipped with a double-traction gear in hardened steel, capable of duplicating the grip on the filament and tripling the force exerted thanks to a gearbox.

The WASP 4070 FX features a single Ø2.85mm XFLEX direct filament extruder capable of reaching 280°C. The FLEX X extruder of the 4070 FX is equipped with a double-traction gear in hardened steel, capable of duplicating the grip on the filament and tripling the force exerted thanks to a gearbox.





Flexible materials for Industrial and Orthopedic applications.

Materials

TPU is flexible and resistant up to 90°C, and features a nice glossy finish.

PP is skin contact certified and has mechanical and thermal resistance up to 100°C.

Technical Details

PRODUCT SPECIFICATIONS

Print volume: Ø 400 x h 700 mm
Nozzle diameter: 0,4 mm
Layer resolution: 50 - 350 micron
Print speed: 200mm/s
Travel speed: 300 mm/s
Connectivity: WiFi, LAN, USB
Hotend temperature: Max 280°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)
Assorbed power: Max 3Kw
Average power: 0,5Kw

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: TPU, TPE, PP
Other: PLA, PETG, ASA, ABS

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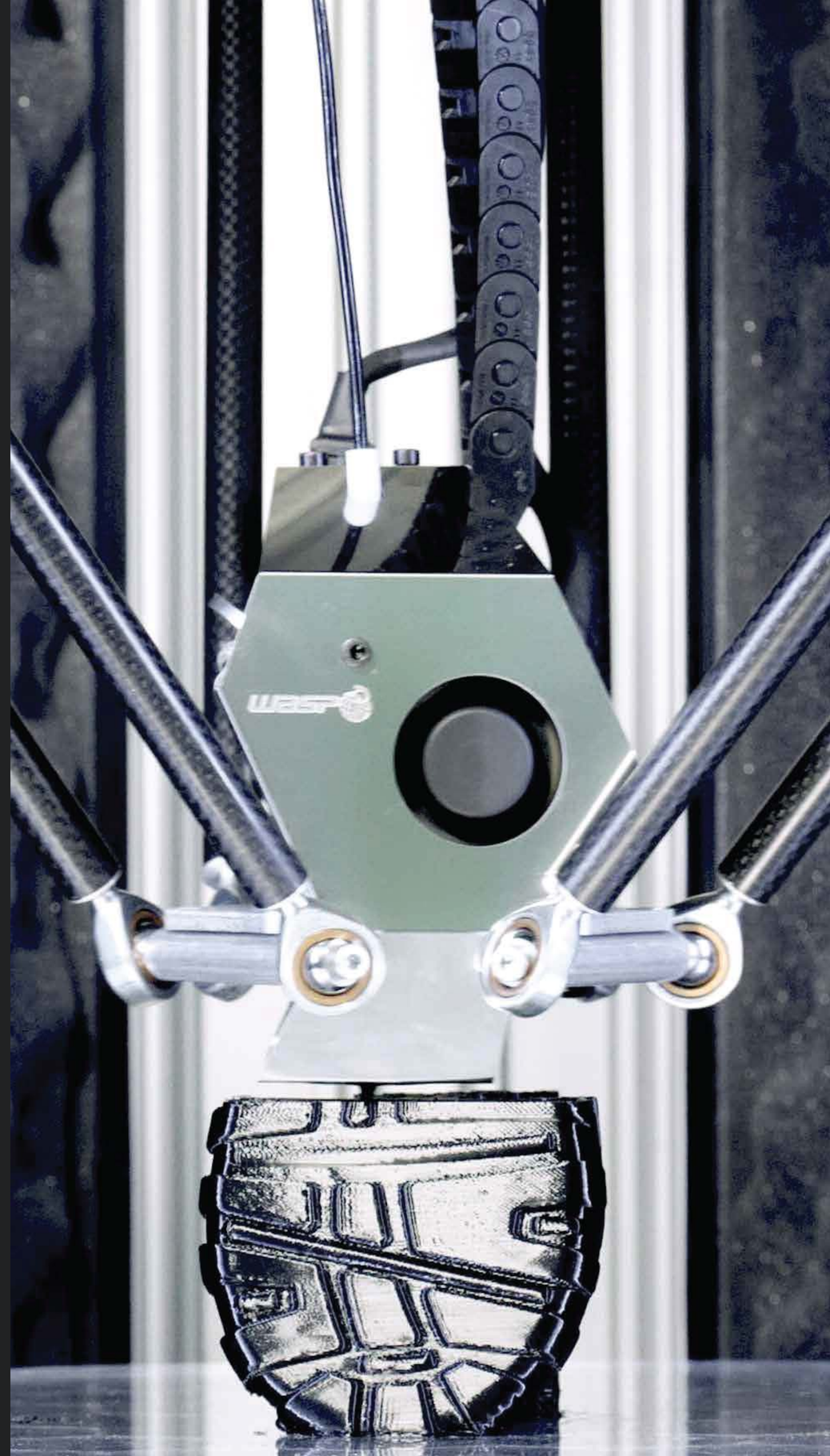
Industry 4.0 compliant technology. 3MT HDP is designed to print large scale objects with plastic granules.

ARTISTIC INSTALLATIONS

EDUCATION CENTERS

DESIGN STUDIOS

FURNITURE APPLICATIONS



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