

High Definition Pellet
technology for the Industry

4070 HDP



www.X3D.pt

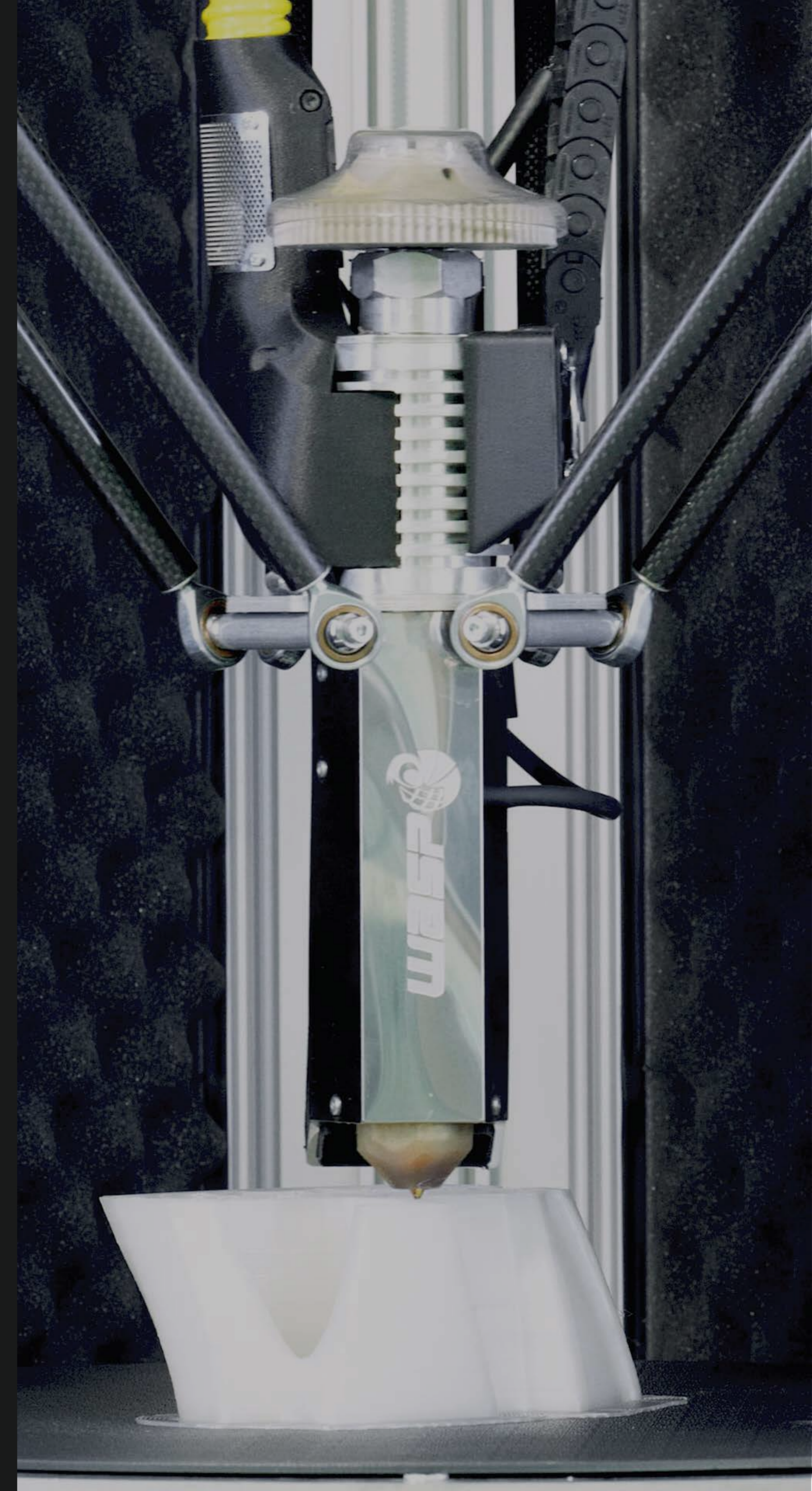
WASP 4070 HDP is a large format 3D printer designed to print directly from granules. Affordable, heavy-duty prints from plastic granules.

WASP 4070 HDP 3D Printer for plastic granules

WASP 4070 HDP is the first small-sized WASP printer, as well as one of the very few in the world, to print directly from thermoplastic pellets.

WASP 4070 HDP 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 50 °C allows an optimal printing of standard, technical or recycled thermoplastics, while maintaining a relatively low temperature on the mechanics.

It is provided also with new motor drivers that make the printer much quieter and precise, combined with new, more powerful stepper motors that give it greater solidity.





1. HEPA filter

2. Pneumatic continuous feeding

3. 5L granules tank

4. Print status indicator led bar

5. Fast and powerful delta kinematics

6. VAC Vacuum Active 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



Print directly from granules

The new High Definition Pellet extruder has been specifically developed for thermoplastic granules extrusion up to 350g/h

Big prints big savings

Print massive parts using granules up to 10 times cheaper than filaments

Recycled materials

Experiment with an incredibly wide variety of customized and WASP officials recycled materials.

24/7 printing

Retraction control during the extrusion

Easily Interchangeable printing plates

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

Wi-Fi Module

Machine connected to the network for monitoring and control

The WASP 4070HDP is equipped with a pneumatically loaded HDP extruder capable of extruding standard, technical and recycled thermoplastics.

WASP HDP extruder

A capacitive sensor placed on the extruder body detects the presence of material and independently requests it from the main 5-liter tank located on the side of the printer, interrupting the process in case the material runs out.

The main tank is equipped with a pressure regulator with oil/water separation tank. Customer requirement for the operation of the pneumatic loading system is a compressor of at least 6 bar and 10L capacity, with 8mm outlet pipe.





Plastic granule printing for Industrial applications.



Materials

PELLET granules are 10x cheaper than filaments and dramatically reduce printing time. Give plastic waste a second chance with our HDP extruder.

PLA 100% RECYCLED
ASA - UV resistant
ABS - high mechanical resistance
TPU - flexible material

PRODUCT SPECIFICATIONS

Print volume: Ø 400 x h 600 mm
Max output: 350g/h
Nozzle diameter: 1mm
Layer resolution: 200 - 500 micron
Print speed: 150mm/s
Travel speed: 250mm/s
Connectivity: WiFi, LAN, USB
Hotend temperature: Max 280°C
Bed temperature: Max 120°C
Chamber temperature: Max 50°

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: 0,600Kw
Air compressor: 8bar, 50L tank, 6x8mm pipe

ENVIRONMENT REQUIREMENTS

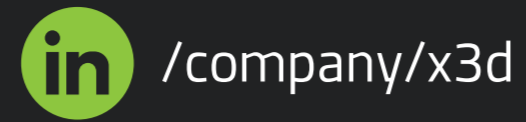
Operating temperature: 15-30°C
Storage temperature: 0-30°C

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: 100% recycled PLA, ABS, ASA.
Other: TPU, PP, PETG.



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



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INSTALLATIONS**



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STUDIOS**



**FURNITURE
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Contacte-nos:

