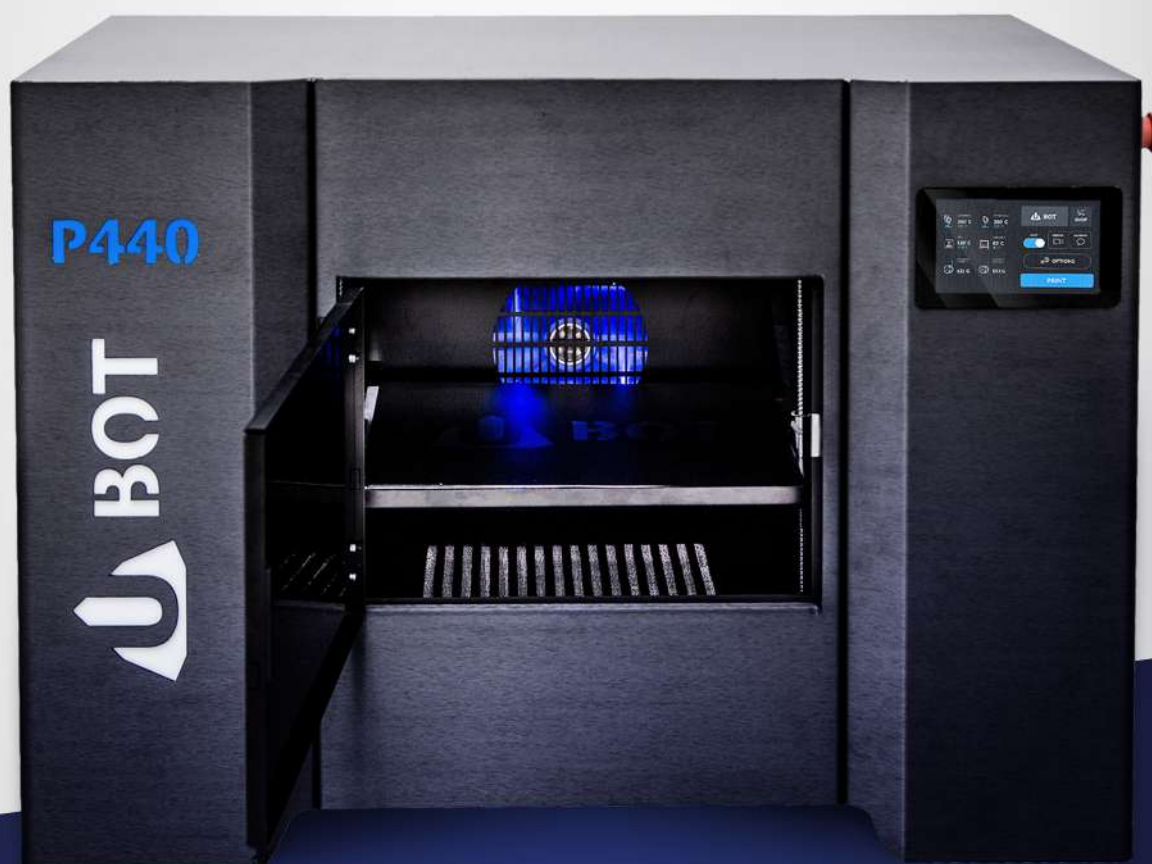


PROFESSIONAL 3D PRINTING  
AT YOUR FINGERTIPS!



Discover new possibilities with UBOT  
3D Industrial Printer

[WWW.UBOT3D.COM](http://WWW.UBOT3D.COM)  
E: [OFFICE@UBOT3D.COM](mailto:OFFICE@UBOT3D.COM)  
T: +48 604 202 355  
T: +48 505 043 375

# UBOT P440



PRINTING AREA  
440 X 330 X 300 MM

**HOTEND HELLFIRE**

**NEW UBOT HERKULES EXTRUDER**

**AUTOMATIC WORK BENCH CALIBRATION**

**THREE-ZONE MAGNETIC WORK BENCH**

**CLOSED AND HEATED WORK CHAMBER**

**ELECTRIC CURRENT SAFETY AND POWER BACKUP**

**AN IMPRESSIVE WORK AREA OF 440 X 330 X 300 MM**

**FILAMENT SENSOR WITH LEFT MATERIAL WEIGHT CONTROL**



EDUCATION



MEDICINE



AUTOMOTIVE



AIRCRAFT



ARCHITECTURE



JEWELLERY



DESIGN



ELECTRONICS



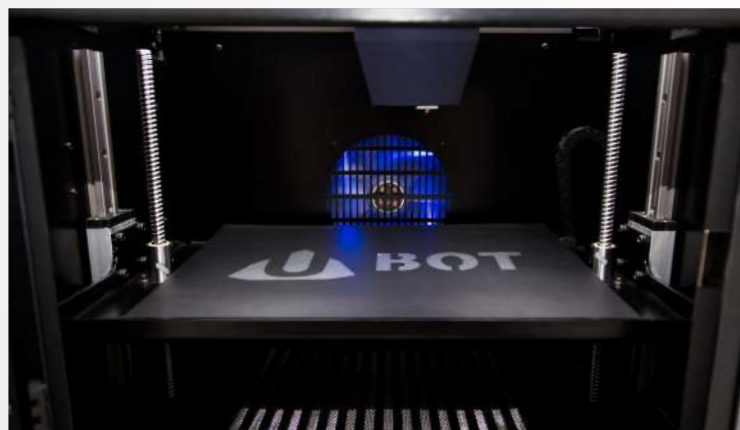
MOBILE



TUNING

## CLOSED HEATED WORK CHAMBER

The 3D printer is provided with a work chamber, heated by an independent 1500 W system. This solution, already known from industrial systems of 3D thermoplastic printing and significantly different in its properties from desktop devices where uncontrolled heating is provided by the heat emitted by the work bench itself. In the P440 printer, heat distribution is provided by several independent fans - air motion does not cause rapid temperature changes. The air is exhausted from the chamber by an additional fan and filtered by a four-stage chamber filter: HEPA, carbon, PP and cold catalysis.



## THREE-ZONE MAGNETIC TABLE

The work bench consists of three components:

1

**a work bench**

made of precision aluminium, which performs a magnetic function and is responsible for an appropriate stability of temperature, uniformly distributed along the entire surface; heating is provided by an 800 W system.

2

**a work table**

made of thick steel 6 mm, additionally bent to ensure adequate stiffness

3

**a resilient table**

covered with a special adhesive coating, preventing from print deformation

The table is magnetically fixed, therefore, it can easily be removed after completed work, while the print can easily be peeled off from its surface with a slight bending. The maximal table temperature is 160°C.



## FILAMENT SENSOR WITH LEFT MATERIAL WEIGHT CONTROL

Material feed control:  
This 3D printer is not only able to detect the end of filament on a roll but also to identify possible problems with filament feed (e.g. a clogged nozzle, tangled material, etc.).  
Material weight measue:

The 3D printer software constantly monitors operation progress, e.g. by mobile devices so the user may, at any time, check the actual data on left material to supplement it before there is no material on the roll. In addition, the 3D printer communicates about critical states via SMS messages. For example, 1 hour before the end of material on the roll, the user receives a message about a coming necessity of filament supplementation. Other types of messages include, among others, printing stop in result of a failure or a normal printing task end.

## HOTEND HELLFIRE

It is a printing head, intended for high-temperature materials and provided with an intuitive tool replacement system which allows for quick changes of nozzle diameters from 0.2 mm up to 1.2 mm in 0.1 mm intervals. It features an increased heater power (double-fire) to achieve the set temperature even faster. The maximum nozzle temperature is 400°C.

## NEW UBOT HERKULES EXTRUDER

A proprietary extruder enables material extrusion with double force (double jugger) by the application of a double feedback system and an increased torque. Both these features ensure better, more precise material extrusion, while reducing the risk of filament "chafing".

## ADDITIONAL FEATURES

- A possibility to purchase the filament and printing materials directly from the 3D printer's panel
- Internal memory - a possibility to send a file from a PC to the 3D printer's HD
- Integration with computer and phone applications - a cloud system provides a possibility to simultaneously connect more external peripherals; a possibility of remote control with a camera viewing feature
- A 2-year guarantee
- A possibility to purchase an additional guarantee package

## AUTOMATIC WORK BENCH CALIBRATION

The work bench is auto-levelled. The software maps its surface and generates an image by the method of finite elements. Therefore, it is calibrated with respect to the printing nozzle and ensures an ideal adhesion of a printed model to the surface. The work bench is ideally flat and allows for printing of flat bases without the need to use additional rafts.

AVAILABLE ON REQUEST

	Stiffnes	Durability	Printability	Maximum Service Temperature	Extruder Temperature	Bed temperature	Material features
U-ABS	●●●○○	●●●●○○	●●●●○	94 °C	230-245 °C	80-100 °C	Easy mechanical and chemical treatment
U-PLA	●●●●○	●●●●○	●●●●●	54 °C	190-220 °C	0-65 °C	The easiest in printing
U-PET G	●●●○○	●●●○○	●●●●●	73 °C	220-245 °C	70-95 °C	Certified for food contact
U-HIPS	●●●●●	●●○○○	●●●○○	73 °C	215-235 °C	70-100 °C	Dissolvable in d-linoene
U-B FLEX	●●○○○	●●●●○	●●●○○	80 °C	220-240 °C	60-80 °C	Elastic- Toughness Shore'a 32 scale ShD
U-TPU	●○○○○	●●●●○	●○○○○	91 °C	215-235 °C	60-80 °C	A higher flexibility - Toughness Shore'a 93 scale ShA
U-NYLON (PA)	●●●○○	●●●●○	●●●○○	125 °C	220-260 °C	85-100 °C	Durable, softly flexible
U-ASA	●●●○○	●●●●○	●●●●○	85 °C	220-240 °C	90-110 °C	High UV-resistant
U-PVA	●●○○○	●●●○○	●●●○○	75 °C	180-230 °C	50-60 °C	Reinforced with carbon fibers
U-NANO CARBON	●●●●○	●●●●●	●●○○○	160 °C	240-260 °C	90-110 °C	Support material ,water-soluble
U-PMMA	●●●●○	●●●●○	●●○○○	95 °C	240-260 °C	75-110 °C	Well resistance to scratch
PPSU	●●●●●	●●●●○	●○○○○	205 °C	360-390 °C	140-160 °C	Chemically Resistant
PC-ABS	●●●○○	●●●●○	●●○○○	105 °C	250-270 °C	80-100 °C	High stiffness
PC	●●●●○	●●●●○	●●○○○	130 °C	250-300 °C	110-140 °C	High impact
PEI	●●●●●	●●●●○	●○○○○	180 °C	350-380 °C	140-160 °C	Non-flammable
PEEK	●●●●●	●●●●○	●○○○○	250 °C	370-400 °C	130-160 °C	High temperature resistance
ESD	●●●●○	●●●○○	●●●○○	98 °C	240-260 °C	100-110 °C	Anti-static properties



# Specification

**Printing technology:** FFF (Fused Filament Fabrication)

**Print area:** 440 x 330 x 300 mm

**Layer resolution:** up to 50 microns

**Extruder:** 1 or 2 printing head, laser head

**Nozzle diameter:** 0.2/1.2, also special warhead, strengthened

**Minimal wall thickness:** 0.4 mm

**Filament diameter:** 1.75 mm

**Flow detection of filament:** yes; 2 independent system

**Certified materials:** PLA, ABS, HIPS, PET, Nylon, PP, ASA, PC, NanoCarbon, TPU, B-FLEX, PC-ABS, ESD, PEEK, Ultem, PPSU, composite materials and another

**Support material:** HIPS, BVOH, PVA

**Chamber Filter:** Yes; 4- functional

**Printing temperature (extruder):** up to 400°C

**Platform temperature:** up to 160 °C

**Chamber temperature:** up to 80°C

**Positioning precision XY:** 3,125 microns

**Positioning precision Z:** 0.8 microns

**Working platform:** special magnetic platform with adhesive pad

**Auto calibration:** yes

**Connection:** USB, WIFI, built memory

**Remote print:** yes, smartphone, PC application

**Additional:** U-ME System, camera view, UPS system



**Printer Size:** 1110 x 605 x 730 mm

**Printer weight:** 220 kg

**Power:** 240V AC ~ 11A 50/60 Hz

**Maximum power consumption:** max. 2500 W

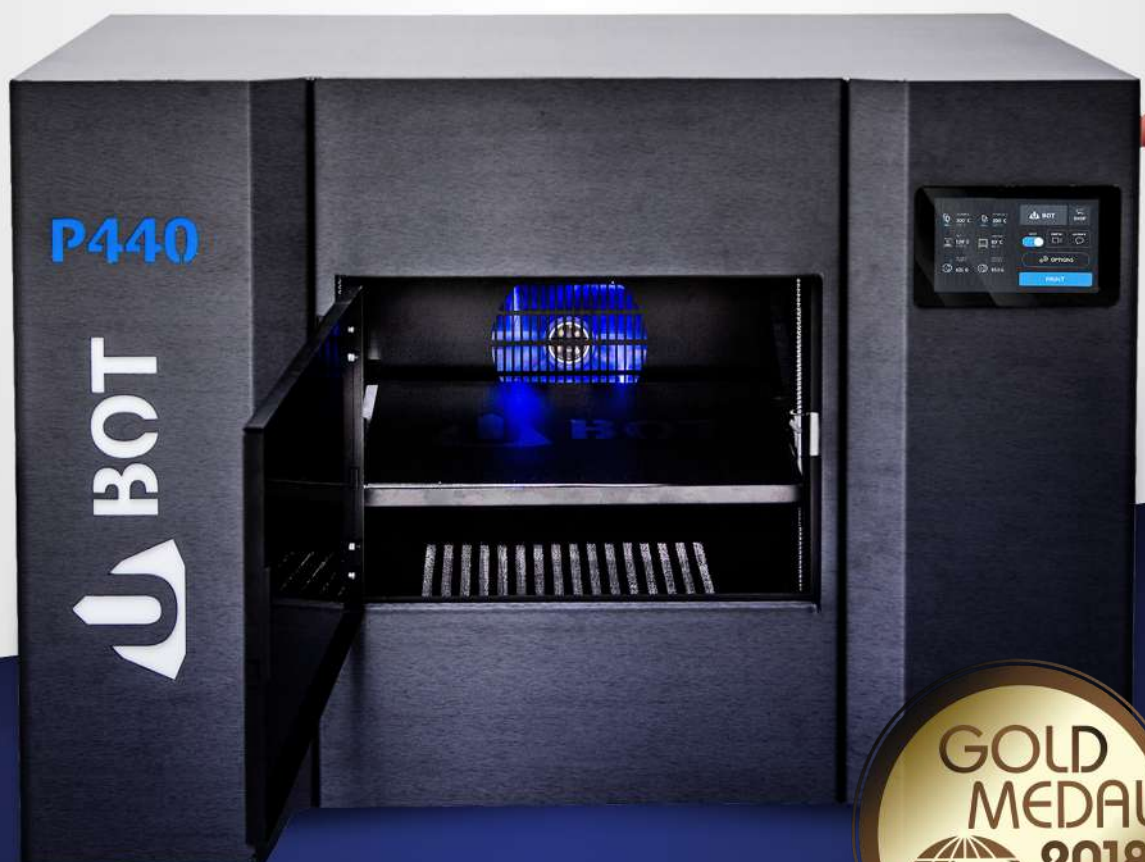
**Software:** Simplify3D along with preset settings

**Supported file types:** .stl, .obj

**Supported operating systems:** Windows, macOS

**Safety Certifications:** CE

**Guarantee period:** 2 years ( additionally possibility to buy guaranteePLUS packet )



PRINTER AREA: 440 X 330 X 300 MM

