

The New Kühling&Kühling HT500 3D Printer

The Kühling&Kühling HT500 is an industrial Fused Filament Fabrication (FFF) 3D printer for high quality rapid prototyping. It is specially designed cost effective and reliable heavy duty continuous operation.

- Print with the widest range of materials yet – including ABS, PC, PVDF, PEEK, Nylon and many more
- Low running costs due to affordable consumables and low maintenance requirements

NEW: High Temperature Print Heads up to 500°C

Features:

Stand-Alone Operation

No dedicated computer needed, the HT500 features true stand-alone 3D printing. Access the 3D printer's webinterface from your webbrowser via ethernet and upload print jobs conveniently, monitor the machine status and remaining time of a running print job.

Intuitive Touch Screen Controller

All operation tasks are executable with a simple touch on the 10" capacitive touch panel, e.g. starting a print, running calibration wizards etc.

Quick-Exchange Nozzle Tips

Install different nozzle diameters within seconds. The printer comes with 2 pcs. Ø0.35mm and 2 pcs. Ø0.5mm nozzles – more spare nozzle tips and sizes available separately.

Empty Filament Spool Recognition

Never fear that running out of filament may ruin that hours lasting print job – the printer will recognize used up filament spools and pause print for reloading! Even when happening mid-night, you'll find your HT500 happily waiting for your assistance in the morning.

Easy and Precise Calibration

The print table has semi-automatic leveling with a pictured calibration wizard on the touch interface. Both extruder nozzles are precisely adjustable with automatic height alignment functionality to guarantee best dual extruder experience.

Safety & CE Marking

An activated carbon air filter ensures non-smell operation in office environments. CE Marking according to EU requirements for product safety – an essential criteria for our business customers.

Open Source Technology

Modify any operating parameter you can imagine like speeds, temperatures, resolution; do hardware or software modifications according to your needs if required. Power to you!

Support & Spare Parts

Get in contact with our e-mail support line any time to get assistance along whatever challenge you're facing regarding your HT500. Additionally there's our constantly enhanced Online User's Manual docs.kuehlingkuehling.de featuring in-depth technical background information, maintenance guidelines, general tips&tricks for improving your quality output with tricky 3D models, as well as troubleshooting with step-by-step diagnosis and solutions.

Tools Included

Each HT500 3D Printer comes with a full 12-part high quality tool set you may require for any operational and maintenance task you could imagine during daily use.

Specifications:

3D printing technology	Fused Filament Fabrication (FFF)
Print Resolution	Minimum layer thickness approx. 0.05mm (resolutions below 0.1mm are dependent on installed nozzle diameter, used print material etc.; some materials of low viscosity may even allow thinner layers)
Filament Diameter	2.85 +/- 0.1mm
Build Volume	200x180x290mm (10.44 liter)
Model Materials	ABS, HIPS, PET(G), PVA, PLA, TPEs, composites (Wood/Metal etc.), igus Tribo Filaments, PA12*, PC*, PEEK*, PVDF* (* may be limited to smaller objects)
Support Materials	Soluble support options available for ABS, PET(G), PLA, PLA-/PETG-based composites; Break-away support available for any processed model material
Print Heads	Two high temperature print heads (500°C max.) for multi-material, multi-color and multi-nozzle-diameter operation; comes with 4 extruder nozzle tips of 2 different diameters (0.35/0.50); 2 pcs. 0.35mm nozzle pre-installed; more nozzle diameters available separately (0.25/0.75)
Print Head Cleaning System	For best results in dual material prints
Cooling	Watercooled stepper motors, print heads and LED lighting; low maintenance due to closed circuit
User Interface	Integrated 10" capacitive touch screen controller for stand-alone operation
Network Connection	Ethernet 10/100, RJ45
Automatic Calibration	Via Touch Interface
Chamber	Actively heated build environment (up to 70°C) for durable prints from engineering plastics
Enclosure	Rigid aluminum frame, fully enclosed with clear acrylic glass; built-in LED lighting
Print Bed	Heated (up to 130°C)
Build Surface	Exchangeable maintenance-free continuous use high performance build plates, compatible with ABS, PETG, HIPS, PVA, PLA, TPU, PA12, PEEK without priming/pretreatment/coating; one build plate pre-installed
Activated Carbon Air Filter	Makes printer compatible to office and living environments
Software	Free and Open Source slicing software, optimized configuration presets provided
Operating Systems	Windows, Mac OS X, Linux
Power Requirements	100-240V AC, 50-60Hz, 1000W max.
Dimensions	approx. 80x60x80cm (LxWxH)
Weight	49kg
Included in Delivery	12-part tool set, 2 accessory nozzle tips Ø0.5mm, 1 accessory build plate, 2 spools ABS model material á 750g, 1 power cord
Shipping	Fully assembled and tested with CE conformity