

PRUSA CORE ONE L

Think Big. Print Bigger.



300x300x330 MM PRINT VOLUME

Plenty of space for large, durable models in a single piece (30 liters / 1 cu ft.). And it still fits on your desk!

CONVECTION AC HEATED BED

Perfect, uniform heat distribution across the entire heatbed, with a <math>< 2^{\circ}\text{C}</math> variance across 99% of its surface.

60 °C HEATED CHAMBER

New convection heat distribution system with two fans under the heatbed creates the ideal environment for all materials.

TOP PERFORMANCE WITH ANY MATERIAL

Engineered for high flow with all your filaments, not just ours. The optional 400 °C HT Hotend is designed for high performance materials.

PRECALIBRATED FROM FACTORY

Featuring Phase Stepping for quiet printing, Input Shaper tuned for quality, and more! Everything is pre-calibrated – simply unpack and print!

SECURITY FIRST

Offline-first design: no connection is required, ever! Connection to our open ecosystem via Wi-Fi or LAN is completely optional.



<<< CRITICAL INFRASTRUCTURE EDITION

PRUSA
RESEARCH
by JOSEF PRUSA

[PRUSA3D.COM](https://prusa3d.com)

| [PRINTABLES.COM](https://printables.com)

| [INFO@PRUSA3D.COM](mailto:info@prusa3d.com)

| 24/7 LIVECHAT

READY FOR
INDX UPGRADE

indx
by BONDTECH



MADE IN EU

TWICE THE VOLUME

STILL A COMPACT FOOTPRINT

The CORE One L is the larger sibling of the proven CORE One, an extension of the CORE family. This is the 3D printer for every engineer who got frustrated prototyping large parts in pieces, every prop maker who wants to print a helmet in one go, and pretty much every creator who wants to get the most out of advanced materials.

If you're looking for a versatile 3D printer that will work out of the box for years to come, the CORE One L ticks all the boxes.

THE BEST SOLUTION FOR ADVANCED MATERIALS

Printing advanced materials like ASA, ABS, PC, and PA is easier than ever. The filament insertion point can switch to flexible filament mode, opening a less restrictive path for soft materials. Active chamber control automatically operates rear fans and the top ventilation grille, allowing you to print low-temperature materials with the front door fully closed.

EXCEPTIONAL HEAT DISTRIBUTION

The new AC heatbed is made from a thick block of aluminum to ensure perfect heat distribution – no uneven spots, no cold corners. You no longer have to worry about the ideal object placement to avoid lifted edges or warping. The printer delivers the same performance in 110V and 230V environments.

SEAMLESS WORKFLOW

With the fully-featured iOS/Android Prusa app, you can manage your printer or even an entire print farm, browse a vast 3D model database, and even slice 3D models literally anywhere you are with EasyPrint, our fully-featured online slicer.



App Store



Google Play



HT HOTEND UPGRADE PRINT UP TO 400 °C

The HT Hotend is our new high-performance add-on for the CORE One L. The 40W heater block, combined with the E3D ObXidian nozzle, unlocks materials previously printable only with industrial machines – print PEKK-CF, PPS-CF, PPSU, and many others easily. Additionally, achieve up to 30% better performance with PA11CF and PCCF, and other advanced filaments.

More info at prusa.io/ht-hotend.

1080p CAMERA

The printer comes with a night vision camera bundled in the box – perfect for monitoring your prints from anywhere in the world or for simplified creation of timelapses.



TWO NOZZLES IN THE BOX

The CORE One L is fast with any of your materials, not just ours. The pre-installed high-flow nozzle delivers both outstanding speed and print quality, while the abrasive-resistant nozzle is perfect for demanding materials.

CONVECTION HEATING

Two fans on the underside of the heatbed create a convection effect – they draw cold air from the bottom of the chamber and blast it against the massive heated surface. Two air deflectors then spread the hot air in the chamber and bring it to 60 °C. Rear exhaust port is ready for optional filtration and HVAC.

FAST AND ACCURATE

A built-in accelerometer allows you to calibrate Phase Stepping for quiet operation. and Input Shaper enhances print quality to absolute perfection.

MADE TO LAST

The CORE One L requires only basic maintenance from time to time. And when something wears out, everything can be take apart with a simple screwdriver. It's the perfect option for highly demanding environments with 24/7 operation. With its large print area, the CORE One L is ideal for continuous production with minimal downtimes.

BUYING A PRUSA IS ALWAYS A SAFE BET

With Prusa printers, you know exactly what you're getting. And you own the printer, not just the license to use it.

MANUFACTURED IN THE EU & USA

The CORE One was designed and built in Prague, Czech Republic. We prioritize parts sourced from the EU, and we produce our critical components (like the electronics) directly in Prague. We now also build our printers in Delaware, USA.

LONG-TERM SUPPORT AND UPDATES

We publish updates for our printers for years after release, and we hold spare parts in stock for five years after a product is discontinued. We offer plenty of accessories and upgrades for all our printers.

100% SECURITY, OFFLINE-FIRST

Security and privacy are among our top priorities. This is why you don't have to connect the CORE One L to any network or use any app to set up and run it – not even once. You can even disconnect the Wi-Fi module. And updates? Easy – you can update the firmware, print profiles, or even the slicer completely offline.

INDUSTRY-LEADING 24/7 SUPPORT

Our tech support (available in 7 languages) is praised for its speed and quality. Our team consists of experienced operators and 3D printer enthusiasts – no AI bots. You can also check the extensive Knowledge Base, watch tutorial videos, and read blog articles covering all aspects of 3D printing.

THE BEST FARM AND INDUSTRIAL SOLUTION

With over 600 printers in our production farm, we know what it takes to run large-scale operations. The CORE One L hits the perfect balance of volume, reliability, and repeatability. With its offline-first design, it is ideal for high-security industries, sensitive manufacturing, and government use: zero data sharing while delivering top performance.

EASIEST START WITH THE INCLUDED ONLINE COURSE!

The printer comes with a comprehensive online Prusa Academy course that will show you absolutely everything – from unpacking to slicing to printing. It's perfect for the educational sector, onboarding new employees, or simply for learning every single detail about the new machine in your workshop!



AWARD-WINNING 3D PRINTERS

The CORE One L is built on the same platform as the original CORE One – the same robust steel exoskeleton and proven Nextruder design, which received the highest marks for print quality. The CORE One received the Editor's Choice and Highly Recommended badges from Tom's Hardware and Tech Radar, and a Red Dot Design Award. The CORE One L is here to carry on this legacy.

PRUSA RESEARCH

Prusa Research is a 3D printing developer and manufacturer based in Prague, Czech Republic, and Delaware, USA. The company was established by Josef Prusa in 2012. This small start-up grew quickly, and there are over 1,000 people working for Prusa Research today. The Prusa i3 design quickly became the number one in the world (according to 3D Hubs). Every month, Prusa Research ships over 10,000 3D printers to over 160 countries worldwide.

PRUSA CORE ONE TECHNICAL PARAMETERS

Printer size	469×521×635 mm
Build volume	300×300×330 mm
Layer height	0.05–0.30 mm
Print surface	Magnetic heatedbed with removable PEI spring steel sheets
Supported materials	PLA, PETG, Flex, PVA, PC, PP, CPE, PVB and when using the optional Advanced Filtration System ABS, ASA, HIPS, PA. Optional 400 °C HT Hotend adds support for materials like PEKK-CF, PPS-CF, PPSU, and more.
Nozzle	High-flow Prusa Nozzle brass CHT – 0.4 mm + Abrasive-Resistant 0.4 mm nozzle in the box
Max. hotend temperature	290 °C (up to 400 °C with the HT Hotend Upgrade)
Max. chamber temperature	60 °C
Safety features	Filament sensors, Power panic, 5 high-precision thermistors, fan speed monitoring, door sensor
Advanced features	Precise stepper motors, Nextruder with a custom breakout board, touchscreen, aluminum heatsink, all-metal hotend, advanced 360° cooling system, powered USB-C for accessories, LED lighting
Calibration	Fully automatic first-layer calibration, always-perfect first layer without any user input, fastest Mesh Bed Leveling
Connectivity	USB drive, LAN, detachable Wi-Fi (setup with an NFC tap)
Printing management system	Remote print management via Prusa Connect and Prusa app for iOS and Android. Fully unrestricted offline mode with printing from a USB drive
Additional accessories	Multi Material Upgrade 3, GPIO Board, Advanced Filtration System, Bondtech INDX

CRITICAL INFRASTRUCTURE EDITION

Our printers were always focused on top security: embedded platform, open-source firmware, removable radios and cameras – and more.

With the CORE One L, we're keeping our offline-first design, but we're also bringing something new: Prusa CORE One Critical Infrastructure Edition with a custom mainboard (no Wi-Fi slot and related circuitry) and an encrypted, certified USB drive. No camera in the package.

