

ORIGINAL PRUSA XL

CORE XY 3D PRINTER WITH A 5-HEAD TOOLCHANGER



NO LIVE
ADJUST Z
NEEDED

EXTREMELY
FAST & RELIABLE
TOOLCHANGER

PRINT AREA
36×36×36 CM
14.17×14.17×14.17 IN

ALWAYS PERFECT
FIRST LAYER ACROSS
THE ENTIRE SURFACE

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

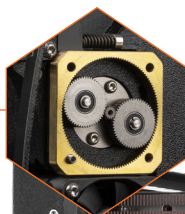
5-HEAD TOOLCHANGER

The XL can be upgraded up to 5 individual print heads, each driven by its own electronics board. The internally developed toolchanger uses a reliable wear-resistant system and automated tool alignment calibration ensuring millions of trouble-free tool swaps.



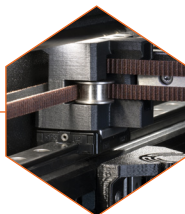
BRAND NEW NEXTRUDER

A completely redesigned extruder with a planetary gearbox and large no-slip drive gear comes with hot-swappable nozzles and a Load Cell-based system for fully automatic first-layer calibration.



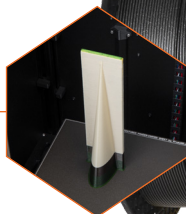
RIGID CORE XY BUILD

A sturdy aluminum extrusion frame, which makes the XL stable and rigid.



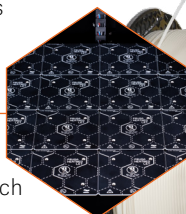
LOW-WASTE MULTI-MATERIAL PRINTING

Changing of the toolheads is extremely fast and waste material is kept to a bare minimum (when changing colours). The pressure in the nozzle is stabilized using a light and compact purge tower, so there is no waste around the printer.



MODULAR BED SYSTEM

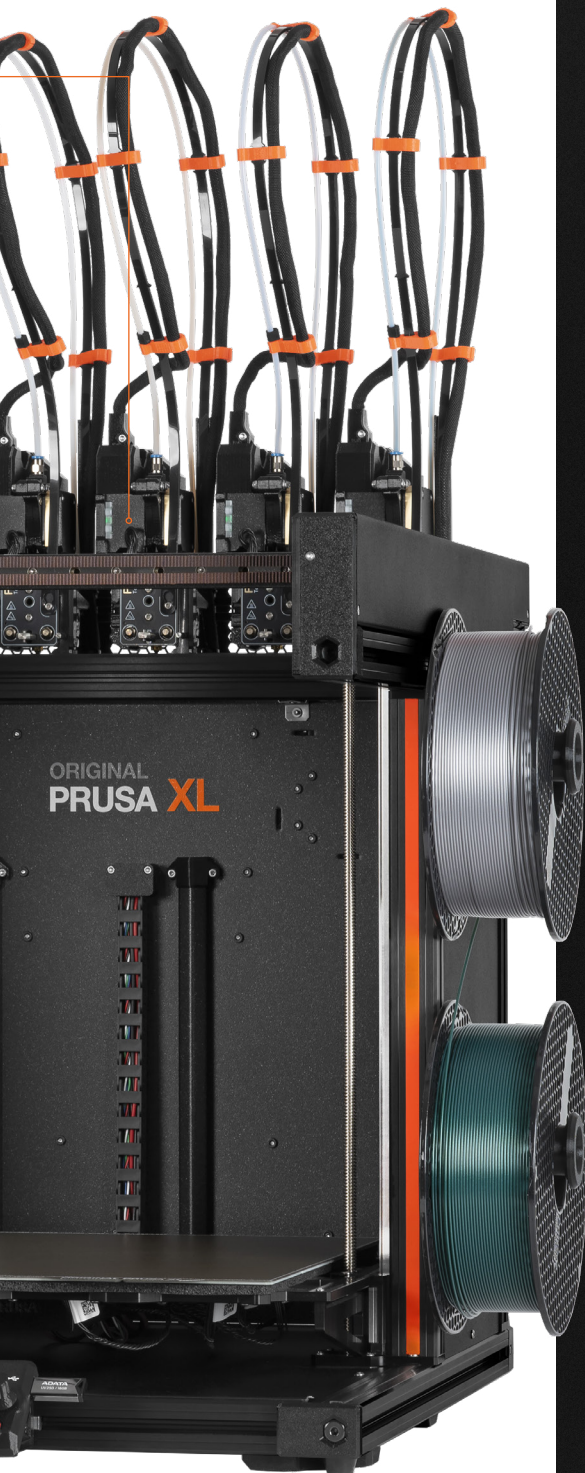
Instead of using a single large heatbed, which is prone to warping, the XL uses an array of smaller, individually-controlled segments. Only the necessary part of the heatbed is activated when printing smaller objects, making the XL energy-efficient and reliable.



REMOVABLE DOUBLE-SIDED SPRING STEEL SHEETS

Allow for easy maintenance and effortless print removal.





SUITABLE FOR

**CONCEPT MODELS
& ARCHITECTURE**



**INDUSTRIAL
APPLICATIONS**



**RAPID
PROTOTYPING**



COSPLAY



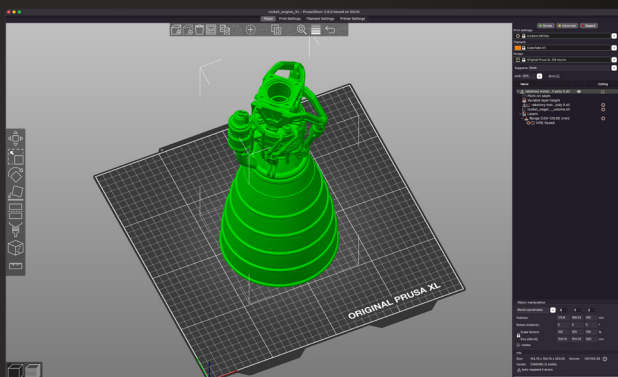
ORIGINAL PRUSA XL TECHNICAL PARAMETERS

Printer design	Core XY
Build volume	360×360×360 mm (14.17×14.17×14.17 in)
Printer dimensions	800×800×900 mm (31.49×31.49×35.43 in) including side spoolholders and room for cables above the printer
Filament diameter	1.75mm, wide range of thermoplastics supported (including, but not limited to PLA, PETG, ASA, ABS...)
Extruder	Planetary 1:10 gearbox with no-slip drive gear, Load Cell sensor
Tool Changer	with up to 5 tool heads (optional upgrade via built-in expansion port)
Bed	Segmented heatbed with 16 individually controlled segments
Print surface	Removable magnetic steel sheets with different surface finishes
Electronics	32-bit custom-made board with an expansion slot, single-cable communication with tool heads, network features, one-click printing
Mesh Bed Levelling	Load Cell-based fully automatic first layer calibration with no Live Z adjustment
Power panic	Hardware-based, single G-Code line accuracy
Ethernet connection	built-in



SLICE WITH PRUSASLICER!

Our internally developed multiplatform slicer comes with in-house-made and fully tested profiles for all of our 3D printers and a wide range of filaments. With built-in tools, such as advanced support generation, cutting, automated object distribution, ironing, and many others, you will turn your 3D models into print files in no time!



PRUSA RESEARCH

Prusa Research is a 3D printing developer and manufacturer based in Prague, Czech Republic. 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 right now. The Prusa i3 design quickly became the no. 1 in the world (according to 3D Hubs) and every month, Prusa Research ships over 10,000 3D printers to over 160 countries worldwide.

**DOWNLOAD
E-BOOK:
BASICS OF
3D PRINTING
with Josef Prusa**

