

Renkforce RF2000 3D Printer

Technical data

Category	3D printer
Type	Pre-assembled device
Supported printing supplies	PLA, ABS, HIPS, PVA, Nylon, PET, PP, PS
Max. printing width (X)	180 mm
Max. printing height (Y)	200 mm
Max. printing depth (Z)	230 mm
Printing pad features	heatable, exchangeable
Extruder type	Duo
Nozzle Ø	0.4 mm
Printed layer thickness (min.)	0.05 mm
Printed layer thickness (max.)	0.3 mm
SD card slot	Yes
Interfaces	USB 2.0, Network (also via renkforce 3D printbox)
Software	Open Source (RH Cura), AstroPrint (optional)
Colour	Black
Case material	Aluminium, steel
Width	375 mm
Height	665 mm
T	410 mm
Weight	19.5 kg
Operating voltage	100-240 Vac
Power consumption (max.)	620 W
Features	Dual extruder

Highlights & details

- Made in Germany - developed by Conrad's in-house Technology Centre
- Dual extrusion allows printing with 2 different filament types using 2 colours, or an additional soluble filament to prop up workpieces
- Large 230 x 180 x 200 mm print chamber
- Ceramic hot bed for improved stability
- Multi-colour print chamber lighting colour-codes printer status (available soon via firmware update)
- Large high-contrast monochrome display
- Easy-to-use keypad for straightforward printer operation
- Exchangable extruder nozzles for high resolution/speed
- Emergency Power Off and controllable socket enable the use of a milling attachment
- Print head adapters for milling/engraving attachments now available!
- The Renkforce 3D-Printbox (optional) allows connecting the printer to the cloud (enabling printer control via mobile device or PC both at home and while travelling) giving you access to slicing software.

- Using an (optional) polycarbonate enclosure helps keep printing temperature constant levels thereby increasing the range of material that can be used

Description

The Renkforce RF 2000 3D Printer: an advanced version of the RF1000, with plenty of new and exciting features.

The RF2000 is renkforce's most advanced 3D printer - designed for challenging printing tasks.

Whether it's model making or rapid prototyping, the RF2000 makes manufacturing complex workpieces in two colours or using water-soluble props quick and easy.

Dual extrusion allows producing workpieces in two colours or using two filaments with different properties at the same time.

Ceramic hot bed and high-performance extruders enable the use of a wide range of filaments including PLA, ABS, PVA, HIPS and other custom materials.

RF2000 dual extrusion printing happens in a sizable print chamber (230 x 180 x 200 mm).

The printer features a ceramic hot bed to stabilise the workpiece during printing.

The large high-contrast display continuously provides printing status upgrades (can be paused or customised if required). Moreover, multi-colour LED print chamber backlighting will soon be introduced to help monitor the printing process (will require a firmware update).

Data transfers happens either via the PC-based USB interface, the built-in SD card slot, cloud-based via a mobile device, or via network connection by using a Renkforce 3D Printbox (not included).

The RF2000 has been designed using high-quality components made of CNC-tooled aluminium and stainless steel parts including industry standard profiled rail guides and ball bearings for precision printing and a long service life.

The printer comes with preconfigured Renkforce RHost OSS enabling automatic production of props stabilising the workpiece.

Renkforce RF1000 - More Amazing Features

Z-stop control via light barrier and mechanical limiter

High-performance stepper motor controller and PCB cooling

Built-in high-durability power supply unit

Patented automated sheet size detection and smart printing adjustment

Cable tracks prevent lead abrasion/fractures

The use of high quality metal parts prevents material fatigue

Compatible with a range of RF000 accessories including print head adapters for milling/engraving attachments and the Renkforce 3D Printbox

Future-proof!

Renkforce supplies a wide range of RF2000 accessories and upgrades.

Renkforce RF2000 Milling/Engraving Attachments

Optional accessories include a printer head adapter for mini milling/engraving machines (up to 200W). Ideal for the fabrication of model-based prototypes, workpieces and 3D artwork including scale and architectural models, and a wide range of hobby-related tasks. Suitable for various materials, including wood, PVC, fibre glass and aluminium.

Renkforce 3D Printbox. Cloud-based printer control via PC or mobile device.

The Renkforce 3D Printbox (not included) allows you to connect the RF2000 to the AstroPrint cloud. Lets you control all main printer features via the AstroPrint app on a PC or mobile device from wherever you are. The app comes with access to cloud-based slicing software enabling downloading and printing of 3D objects available from Thingiverse and other 3D printing platforms without the need to connect to a PC. AstroPrint is constantly being upgraded, adding new features all the time. Moreover, AstroPrint lets you store and manage your own 3D templates, create new designs using the 3D Slash CAD tool, and monitor the printing process with a webcam.

Renkforce RF2000 Enclosure. More Materials. Increased Printing Quality

The RF2000 polycarbonate enclosure (not included) ensures perfect printing conditions across the entire range of printing materials. Temperature-sensitive filament material, in particular, such as ABS, benefits from constant temperature levels during printing.

Turn your RF2000 printer into a milling/engraving tool:

You can choose from two print head mod kits to turn your printer into a milling/engraving tool (comes with all parts necessary to get you started). The only thing you need is to choose one of two conventional handheld milling power tools.

RF1000 print head adapter for Proxxon® MICROMOT 50/E milling attachment (#1379660-62)

Renkforce RF1000 print head adapter for Dremel® 3000/4000 (#1379662-62)

Guidelines on how to turn your printer in a milling/engraving machine tool are available in our download section. Gives a detailed step-by-step explanation including plenty of graphics.

N.B. Filament not included. Please order separately.