



V E R T E X

DELTA



DATASHEET

VERTEX DELTA 3D PRINTER

K8800 (hybrid kit)

The Vertex Delta is an **all-round** and **reliable 3D printer** designed to print refined objects to complete your projects.

Aside from the **excellent print quality** and **user-friendliness**, the Vertex Delta also comes with a lot of innovative perks to make your 3D printing experience more engaging and pleasant. Advanced safety features, a filament run out detector, a mid print filament replacement function and automatic calibration and bed compensation are only a few of the **latest technological additions**.

This Vertex comes as a **hybrid kit** which means that after a **straightforward and quick assembly**, your Delta 3D printer is ready to serve you. And don't worry about a precise build, because this device will take care of all necessary procedures to ensure a perfect first print.

Choose for reliability and for making quality 3D projects, choose Vertex and **make it happen!**

Designed in Belgium!



More info on vertex3dprinter.eu!



35 cm

Change filament function while printing

Filament run out detector

Infrared based end stops

Precision ground 100 mm vertical rods and brass bushings

Advanced safety features: position and overheat protection by electronic accelerometer and temperature sensor

Reliable & user-friendly

77 cm

E3D compatible nozzle with 0.35 mm diameter

Automatic bed compensation performed by the nozzle (no manual calibration needed) + Automatic first-time set-up calibration

Straightforward & quick assembly, no soldering required (hybrid kit)

Large build volume of \varnothing 200 mm and 225 mm print height

OPEN-SOURCE!

Automatic SD card recognition

128 x 64 graphic display with blue backlight

Effective pause function without nozzle leakage

SPECIFICATIONS

*latest innovations

Printing:

- print technology: Fused Filament Fabrication (FFF - FDM)
- layer resolution: standard 0.1 mm (maximum: 0.2 mm - minimum: 0.05 mm)
- large build volume: 200 mm build platform diameter, 225 mm build height
- print speed: 20-50 mm/s (can go up to 75 mm/s)
- travel speed: 180-200 mm/s
- build plate surface: removable layer of BuildTak™ (K8800-BT)
- filament diameter: 1.75 mm (accepts all filament spools with a mounting hole = 53 mm)
 - open filament policy
- prints: PLA, ABS, TPU, PET and others
- nozzle: E3D compatible
- nozzle diameter: 0.35 mm (one nozzle supplied)
- maximum nozzle operating temperature: 295°C
- **bed compensation: automatic bed compensation performed by the nozzle (no manual calibration needed)**
- **calibration: automatic first-time set-up calibration**
- **couplers: backlash free magnetic effector-couplers**
- **advanced safety features: auto shutdown when print head detaches or temperature is incorrect (due to external causes)**
- **filament run out detector: automatic pause and reload when printer runs out of filament**
- **change filament function while printing: this means that you can print objects with multiple filaments/colours**
- **effective pause function: pause your print job without nozzle leakage**
- **end stops: infrared based end stops**



Software:

- firmware: modified Open Source Marlin 3D Printer, firmware is user upgradable
- software: custom Repetier version (Windows) - Cura profiles (Mac)

Hardware:

- dimensions: W 35 x D 35 x H 77 cm (without filament spool)
- **hybrid kit: quick and straightforward build, no soldering required**
- **frame: rigid aluminium extrusion risers and 4 mm aluminum top and bottom plates for a sturdy frame and precision ground 100 mm vertical rods and brass bushings**
- fully Open-Source (hard- and software) and high quality parts
- weight: 10 kg
- ambient operating temperature: max. 30°C
- storage temperature: -10°C to +50°C

Electrical:

- communication: SD card or USB 2.0
(automatic SD card recognition)
- controller board: AVR ATmega2560 based
- AC input: 100 - 240 VAC 50-60 Hz 90 W max.
- **display: 128 x 64 graphic display with blue backlight**

