# BLACKBELT

The **BLACKBELT 3D printer** is a new type of 3D printer using fused filament fabrication in combination with a unique belt technology. Printing on a belt (patent pending) provides new possibilities, like long prints, printing horizontal overhangs without support and producing series production of same or individual parts.
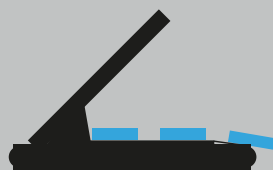
Technical Details

max. Print width:
340 mm

max. Print height:
340 mm

max. Bed temperature:
140 °C

max. Print temperature:
285 °C

max. Travel speed
150 mm/s

Layer height
0.05 - 0.8 mm

Package includes:
2 spools of high quality ColorFabb nGen filament
3 individual printheads (0.4 - 0.6 - 0.8)

WHY LIMIT YOURSELF?

The BLACKBELT 3D Printer is a new type production technology for a variety of industrial applications. It is designed for outstanding printing projects that require big scale or series builds. **BLACKBELT 3D printer** has proven to be a valuable addition to a variety of production or prototyping processes.
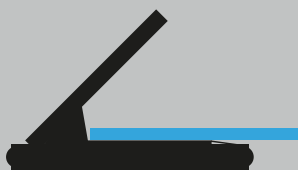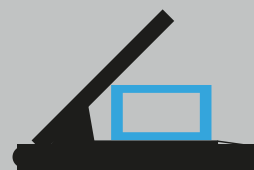

LONG PRINTS

Length is no longer a limit. Print long profiles in one go.

SERIES PRODUCTION

Print individual parts hundreds of times or a hundred parts once.

NO SUPPORT

Printing at an angle let's you achieve overhangs not possible before without support structures.
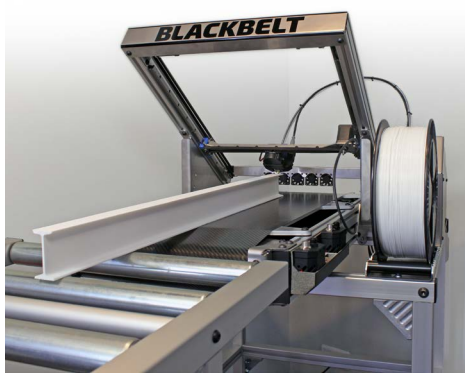

colorFabb

official material partner
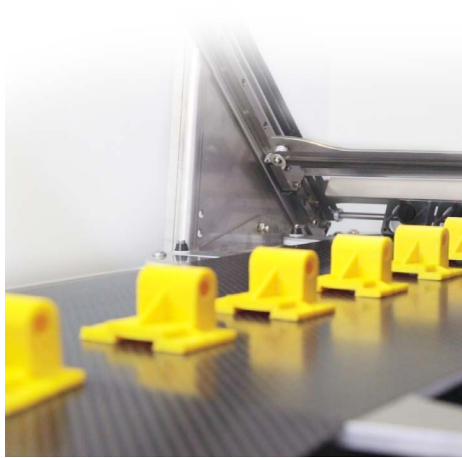
TYPICAL APPLICATIONS

Plastic profile extrusion

Profile printing in full length, applicable for prototyping extrusion profiles.
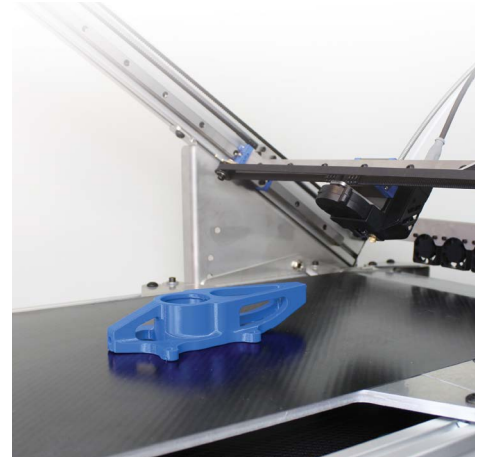
Series production

Printing series of same or individual parts, true mass customization is within reach.

Support free overhangs

New design guidelines allow printing with less support material. The result is less time on printing and finishing.


MAIN FEATURES

The BLACKBELT 3D Printer is a new type production technology for a variety of industrial applications. It is designed for outstanding printing projects that require big scale or series builds.
This new production technology also comes with certain requirements and new possibilities.

- » A modular set up allows easy customisation of the machine. Print heads in different sizes can be challenging within seconds.
- » Dedicated slicer software, BLACKBELT Cura comes with the ability to do manual or automatic generated break-away support material
- » Big spools, at our webshop you can find premium spools of material selected to preform to the standard.

REQUIREMENTS

- » We can only print with certain thermoplastic plastics. Data sheets of the supported materials can be fount on our website: https://blackbelt-3d.com/material-data
- » The 3D geometry that needs to be printed has to match our design guidelines. Please contact Team BLACKBELT to evaluate your 3D files on printability. The design guidelines are:
    - » Every geometry has to start on the conveyor belt.
    - » From there the geometry can build up along the belt and upwards onto already printed layers.
    - » If the geometry does not allow this, we need to add support material.
    - » The maximum dimensions are 340mm in width and heigth.
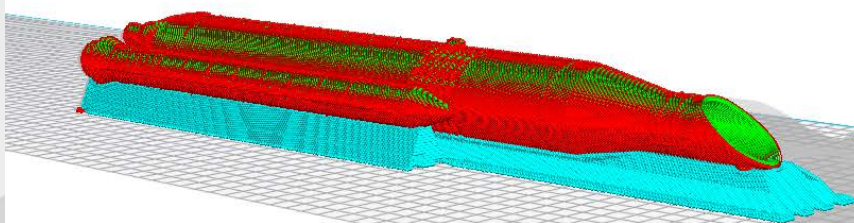
TECHNICAL SPECIFICATION

Technical Details

Print volume (max)
340 x 340 x ∞ mm

Travel speed (max)
150mm/s

Accuracy
+/- 0.4mm

Layer height
0.05 - 0.6mm

Filament size
1.75mm

Software
BLACKBELT Cura

Power requirements
120 - 240 V AC

Power supply
600w 24v

Dimensions

Printer
59 x 1050 x 66 cm

Packaged
80 x 120 x 50 cm

Printer weight
45 kg

Printer packaged
88 kg

Package
Wooden crate on pallet

Supported Materials

- nGgen copolyester
- Economy PETG
- Economy PLA
- coming soon: TPU + ABS

Miscellaneous

Filaments included
2 XL spools nGen

Available print heads
0.25, 0.4, 0.6, 0.8, 1.0mm

Nozzle
Guarantee 2 years, excluding wear parts (print head & belt)

Country of origin
The Netherlands

HS Tariff code
84.43.39.10

Maintenance
Minimal required. As per user manual.

Support
support@blackbelt-3d.com

AVAILABLE MODELS

Desktop version

€ 9.500,-

Stand-alone version

€10.700,-

Roller table version

€ 12.500,-

By default coming with 3 print heads (0.4, 0.6, 0.8mm) and 2 spools of nGen copolyester.

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