

Multirap M10 3D printer

3D printer with FFF technology (fused filament fabrication)

Application:

for efficient production of functional prototypes, visual models, assembly aids, tool moulds for injection-moulded parts and deep-drawn parts, individual parts or series parts, spare parts etc. from digital 3D design data.

Execution:

- 7" touchscreen PC with MULTEC host
- closed print chamber measuring 280x240x240 mm
- Multex2Move print head with 2 pressure nozzles (dual extruder)
- safety equipment in line with the EC Machinery Directive and General Product Safety Directive
- Filament configuration with up to 2 coils
- heat bed with precise temperature control

Advantage:

- MultiSense fully automatic pressure bed levelling and fully automatic nozzle measurement ensure a precise and parallel layer structure
- no dripping or smearing on the rotating disc when in the park position
- clear separation of colours and materials for impressive printing results

- solid machine construction with high-quality components

Notes:

Options: Simplify3D software licence (slicer software)

Technical data:

- Assembly space (width x height x depth): 280 x 240 x 240 mm
- Adjustment speed X/Y/Z-axis: 150 / 150 / 6 mm/s
- Number of extruder: 2 PCS
- Min./max. layer height: 0.02-0.4 mm
- Number of filament coils: 2 PCS
- Weight of filament reserve: 6 kg
- Volume of filament capacity: 4800 cm³
- Filament storage: Open
- Filament monitoring: No
- Printing bed levelling: MultiSense
- Min./max. temperature printing bed: 0 to 100 °C
- Pressroom monitoring: No
- Screen size: 7 in
- Data transmission type: LAN/WLAN



39910...

Multirap M10

Ident. No.
Price/unit, €

○

Prod. Gr. 3FM

PLA filament

high abrasion resistance

Application:

Multec PLA is a high-quality standard filament with good printing properties such as low warping, simple handling and good post-processing options (bonding, grinding, painting). PLA offers high wear resistance. Ideal for sampling, display models, wear-resistant functional models such as dynamic elements, toothed belt drives, etc.

Execution:

- Thermoplastic
- Made from 100% food-safe raw materials and dyes
- High mechanical strength
- Consistent colour fidelity
- Very high dimensional and roundness accuracy
- RoHS compliant
- Heated printing room not required

Advantage:

- Best printability, excellent print image, stable printing components

- Does not present a health risk during processing or as a printing component itself
- Uncomplicated processing, very good post-processing
- Fine manufacturing tolerances guarantee reproducible results
- Filament is subject to constant quality control for consistent high quality

Notes:

Other filaments can be found in our online shop!

Technical data:

- Diameter: 2.85 mm
- Density: 1.26 g/cm³
- Tensile strength: 73 MPa
- E module: 3350 MPa
- Breaking elongation: 2.9 %
- Impact strength: 2.7 kJ/m²
- Max. temperature resistance /conditions: 55 °C/ according to Vicat B
- Min./max. compressive temperature: 185 to 215 °C
- Min./max. heater bed temperature: 0 to 60 °C
- RoHS-compliant: Yes



Ident. No. 207, 307

Ident. No. 217

Ident. No. 232

Ident. No. 312

Ident. No. 317

Ident. No. 322



Ident. No. 327

Ident. No. 332

Ident. No. 342

Ident. No. 347

Weight of filament (g)	1000	1000	1000	1000	1000	1000	1000	1000
Colour	Transparent	White	Yellow Pantone 102 C	Red Pantone red 032 C	Green Pantone 348 C	Dark blue Pantone 288 C	Grey Pantone 877 C	Black Pantone black C
39911...	Ident. No. 207	Ident. No. 212	Ident. No. 217	Ident. No. 222	Ident. No. 227	Ident. No. 232	Ident. No. 242	Ident. No. 247

Weight of filament (g)	3000	3000	3000	3000	3000	3000	3000	3000
Colour	Transparent	White	Yellow Pantone 102 C	Red Pantone red 032 C	Green Pantone 348 C	Dark blue Pantone 288 C	Grey Pantone 877 C	Black Pantone black C
39911...	Ident. No.	307	312	317	322	327	332	342
		●	●	●	●	●	●	●

Prod. Gr. 3FN

M PLA HT filament

heavy-duty, resistant, high temperature resistance

Application:

Multec PLA HT is a high-quality impact-resistant special filament with high temperature resistance, good printing properties such as low warping, simple handling and good post-processing options (bonding, grinding, painting). PLA HT offers a particularly uniform look and feel. Heavy-duty and resistant, PLA HT is suitable e.g. for components, functional models that require a high mechanical strength, for example for the production of deep drawing tools, etc.

Execution:

- Thermoplastic
- Made from 100% food-safe raw materials and dyes
- Very high mechanical strength
- Consistent colour fidelity
- Very high impact strength (50% higher than ABS)
- Excellent temperature resistance
- RoHS compliant
- Heated printing room not required

Advantage:

- Best printability, excellent print image, stable printing components

- Does not present a health risk during processing or as a printing component itself
- Uncomplicated processing, very good post-processing
- Fine manufacturing tolerances guarantee reproducible results
- Filament is subject to constant quality control for consistent high quality

Notes:

Other filaments can be found in our online shop!

Technical data:

- Density: 1.26 g/cm³
- Tensile strength: 39 MPa
- E module: 3800 MPa
- Breaking elongation: 1.3 %
- Impact strength: 23 kJ/m²
- Max. temperature resistance /conditions: 86 °C/ according to Vicat B
- Min./max. compressive temperature: 185 to 215 °C
- Min./max. heater bed temperature: 0 to 60 °C
- RoHS-compliant: Yes



Ident. No. 512

Ident. No. 547

Ident. No. 612

Ident. No. 647

Ident. No. 747

Ø (mm)	1.75	1.75	2.85	2.85	2.85
Weight of filament (g)	3000	3000	1000	1000	3000
Colour	White Natural	Black	White Natural	Black	Black
39911...	Ident. No.	512	547	612	647
		○	○	○	●

Prod. Gr. 3FN

M PETG filament

high light transmission

Application:

Multec PETG is a high-quality special filament with good printing properties such as low warping, simple handling and good post-processing options (bonding, grinding, painting). PETG offers high notch impact strength and high temperature resistance. Also due to its high light transmission and low flammability, this thermoplastic is ideal for industrial applications, e.g. for functional models, components with optical properties, etc.

Execution:

- Thermoplastic
- Made from 100% food-safe raw materials and dyes
- Very high mechanical strength
- Consistent colour fidelity
- High notch impact strength
- High light transmission
- Fire behaviour, DIN 4102 with B1 test certificate: flame retardant 1-8 mm
- RoHS compliant
- Heated printing room not required
- Flame retardant

Advantage:

- Best printability, excellent print image, stable printing components

- Does not present a health risk during processing or as a printing component itself
- Uncomplicated processing, very good post-processing
- Fine manufacturing tolerances guarantee reproducible results
- Filament is subject to constant quality control for consistent high quality

Notes:

Other filaments can be found in our online shop!

Technical data:

- Diameter: 2.85 mm
- Weight of filament: 1000 g
- Density: 1.27 g/cm³
- Tensile strength: 52 MPa
- E module: 1900 MPa
- Breaking elongation: 4.5 %
- Impact strength: 10 kJ/m²
- Max. temperature resistance /conditions: 77 °C/ according to Vicat B
- Min./max. compressive temperature: 185 to 215 °C
- Min./max. heater bed temperature: 0 to 60 °C
- RoHS-compliant: Yes



Ident. No. 817

Ident. No. 827

Ident. No. 842

Ident. No. 847

Colour		Translucent	Blue Translucent	Yellow Translucent	Green Translucent	Orange Translucent	Black
39911...	Ident. No.	817 ●	827 ○	832 ○	837 ○	842 ○	847 ○

Prod. Gr. 3FN

Multec SmartSupport support filament

Application:

Multec SmartSupport is a high-quality support material used in the manufacturing of overhanging construction parts. After printing, the support material can easily be removed from the component with no need for rework. The solution for all print parts that are printed using PLA and PLA-HT

Execution:

- thermoplastic
- made from 100% food-safe raw materials and dyes
- print temperature approx. 220 °C

Advantage:

- creates a natural breakage point

- can be detached with little effort and no reworking
- extremely smooth surface at the breakage point after detachment
- very good printability, so it can be applied over a large surface
- no special storage required

Notes:

support material is required for manufacturing overhanging construction parts in a 3D printer

Technical data:

- Diameter: 2.85 mm
- Min./max. heater bed temperature: 0 to 60 °C



Ident. No. 905



Ident. No. 910

Weight of filament (g)		1000	3000
39911...	Ident. No.	905 ○	910 ●

Prod. Gr. 3FN

Multec PVA support filament

Application:

Multec PVA (polyvinyl alcohol) is a high-quality, water-soluble support material used in the manufacturing of overhanging construction parts. After printing, the PVA can be dissolved in water

Execution:

- thermoplastic
- very hydrophilic

Advantage:

- highly soluble in water

39911...	Ident. No.	900 ○
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Prod. Gr. 3FN

- very good printability, so it can be applied over a large surface

Notes:

store in a dry area away from light

Technical data:

- Diameter: 2.85 mm
- Weight of filament: 500 g
- Min./max. heater bed temperature: 0 to 60 °C

