Integrate the SHERAprint into your digital workflow – print precision!

Just send a STL dataset to your SHERAprint printer. The SHERAprint software divides the dental work into individual, ultra-thin layers, and generates the print job. You can accept open STL files from any system you like, irrespective of the application or method you have used to scan or design your work. Please note: Whatever you print, the objects must have labial, occlusal or basal positioning on the supports. The printing parameters are optimally coordinated for each material - for highest precision of the printing results.

SHERAprint is packed with new possibilities

SHERAprint opens up new possibilities for you: Just print the dies which belong to your models twice. Combine the production of different bite splints into one printing process and save yourself valuable time. Or combine the materials among each other for highly aesthetic models which ensure an attractive appearance even outside your laboratory. Geometries, which were once impossible, are no problem for the SHERAprint 3D printer.
SHERAprint 30

3D printer with Force Feedback Technology
- DLP process with long-lasting LED
- patented Force Feedback Technology
- RFID material identification
- heated material bath
- integrated 7” display
- integrated 10” touch LCD monitor
- LAN and WLAN
- Made in Germany
- can be integrated into open digital workflows
- processing of STL files
- wide range of high-quality light-curing SHERAprint resins, approved as medical devices depending on application
- no additional support material required, very material-saving
- automatic calibration for constant precision
- rapid return on investment

Technical data

<table>
<thead>
<tr>
<th>Construction platform:</th>
<th>130 x 75 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution:</td>
<td>HD 1920 x 1080 pixel (native pixels +/- 34 μm)</td>
</tr>
<tr>
<td>Max. construction height:</td>
<td>110 mm</td>
</tr>
<tr>
<td>Light source:</td>
<td>UV LED 385 nm</td>
</tr>
<tr>
<td>Layer thickness:</td>
<td>50 and 100 μm standard (min. layer thickness in z: 0.5 μm) depending on the material</td>
</tr>
<tr>
<td>Construction speed:</td>
<td>up to 100 mm/h, depending on the material and layer thickness</td>
</tr>
<tr>
<td>Elect. connection:</td>
<td>110 - 250 V, 50 - 60 Hz</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>480 x 410 x 690 mm (W x H x D)</td>
</tr>
<tr>
<td>Weight:</td>
<td>approx. 40 kg</td>
</tr>
<tr>
<td>Item no.:</td>
<td>SD104013</td>
</tr>
</tbody>
</table>
SHERAprint 40

3D printer with two construction areas

- DLP process with long-lasting LED
- patented Force Feedback Technology
- RFID material identification
- heated material bath
- integrated 7” display
- integrated 10” touch LCD monitor
- LAN and WLAN
- Made in Germany
- can be integrated into open digital workflows
- processing of STL files
- wide range of high-quality light-curing SHERAprint resins, approved as medical devices depending on application
- no additional support material required, very material-saving
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Technical data

<table>
<thead>
<tr>
<th>Construction platform:</th>
<th>2 x (130 x 75 mm), double construction area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resolution:</td>
<td>HD 1920 x 1080 pixel (native pixels ± 34 μm)</td>
</tr>
<tr>
<td>Max. construction height:</td>
<td>110 mm</td>
</tr>
<tr>
<td>Light source:</td>
<td>UV LED 385 nm</td>
</tr>
<tr>
<td>Layer thickness:</td>
<td>50 and 100 μm standard, 50 and 100 μm standard (min. layer thickness in z: 0.5 μm) depending on the material</td>
</tr>
<tr>
<td>Construction speed:</td>
<td>up to 100 mm/h, depending on the material and layer thickness</td>
</tr>
<tr>
<td>Elect. connection:</td>
<td>110 - 250 V, 50 - 60 Hz</td>
</tr>
<tr>
<td>Dimensions:</td>
<td>480 x 410 x 690 mm (W x H x D)</td>
</tr>
<tr>
<td>Weight:</td>
<td>approx. 42 kg</td>
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<tr>
<td>Item no.:</td>
<td>SD104014</td>
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</tbody>
</table>
The ‘must have’ for SHERAprint – the light curing unit

The light curing process inside the 3D printer ensures that resins polymerise with geometric stability. After printing, the object is released from the construction platform and briefly cleaned in SHERAultra-p. Afterwards it is necessary that the object is re-exposed in the light curing unit for final curing.

At the same time the re-exposure process has the purpose of stability for the printed object. As we attach particular importance to quality, we tested different light-curing units, the wave range for actual values and kept an eye on the heat generation. The SHERAflash-light plus, which works with nitrogen as an inert gas, is a truly reliable product.

Please note! The use of the SHERAflash-light plus is mandatory for curing of the SHERAprint-ortho plus medical device.

SHERAflash-light plus

Light curing unit
- for SHERAprint resins
- nitrogen can be activated as a protective gas

Technical data

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polymerisation chamber</td>
<td>120 x 120 x 50 mm</td>
</tr>
<tr>
<td>Number of light sources</td>
<td>2 flashbulbs à 100 W</td>
</tr>
<tr>
<td>Nominal voltage</td>
<td>100, 117, 230 volt AC, switchable</td>
</tr>
<tr>
<td>Nominal frequency</td>
<td>50 - 60 Hz</td>
</tr>
<tr>
<td>Power consumption</td>
<td>250 W</td>
</tr>
<tr>
<td>Spectral distribution</td>
<td>280 - 700 nm</td>
</tr>
<tr>
<td>Dissipated power averaged over time</td>
<td>200 W</td>
</tr>
<tr>
<td>Flash frequency</td>
<td>10 flashes per second</td>
</tr>
<tr>
<td>Digital timer</td>
<td>adjustable from 1 to 9,999 flashes</td>
</tr>
<tr>
<td>Dimensions (W x H x D)</td>
<td>310 x 140 x 310 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 7 kg</td>
</tr>
<tr>
<td>Item no.</td>
<td>SD104501</td>
</tr>
</tbody>
</table>
All SHERAprint resins are high-quality light-curing resins, specifically tailored for 3D printing with SHERAprint. All are based on acrylic ester bonds with excellent visual, thermal and mechanical properties, which allow them to be polished easily.

For each material, specific print parameters have been configured in the 3D printer’s software, ensuring the best possible results. Handling after printing is also comfortable with SHERAprint materials. Objects can be easily released from the printed support structure on the construction panel.

Our materials are carefully produced and tested. The SHERAprint-ortho plus splint material is certified as a class IIa medical device for permanent application in the patient’s mouth. SHERAprint resins as class I medical devices are available for 3D printing of temporary crowns and bridges, surgical guides or impression trays.

The model material (SHERAprint-model in three versions) and the material for printing cast designs (SHERAprint-cast) round off the wide range of high-quality light polymerisates. Newly added products are SHERAprint-gingiva mask for the production of fitting gingival masks and the medical device SHERAprint-bracket key for transfer keys in orthodontic technique. Thus, SHERA offers you for the dental field the widest selection of high-quality 3D printing materials for the light polymerisation.
SHERA print-model plus

Light-curing 3D printing resin
- for the production of high precision master models
- for aesthetically appealing works
- colours can be combined among each other
- very good readable
- scanable surface
- available in 1 litre bottles

Technical data

- Viscosity at 23°C: 0.96 Pa s
- Bending strength: 75 MPa
- Bending e-modul: 1,650 - 1,750 MPa
- Shore hardness D: 71 - 84
- Colour: grey, sand
- Item no.: SD400082, SD400083

SHERA print-model fast

Light-curing 3D printing resin
- for the production of orthodontic models
- permits an even faster print
- available in 1 litre bottles

Technical data

- Viscosity at 23°C: 1.0 - 1.5 Pa s
- Bending strength: ≥ 40 MPa
- Bending e-modul: ≥ 1,000 MPa
- Shore hardness D: 80 - 90
- Colour: orange
- Item no.: SD400071
**SHERAprint-gingiva mask**

Light-curing 3D printing resin
- for the production of gingival masks
- for aesthetically appealing works
- offers process reliability for an optimal control
- slightly transparent
- available in 1 litre bottles

Technical data
- Viscosity at 20°C: 1.1 - 1.6 Pa s
- Yield strength: 15 - 25 %
- Colour: pink
- Item no.: SD400100

**SHERAprint-cast**

Light-curing 3D printing resin, residue free burnout
- for the production of different types of casting objects
- highly precise production of dentures or other delicate work
- tailored to the casting with the investment SHERAVEST RP
- can be used both for shock heating and conventional heating process
- available in 1 litre bottles

Technical data
- Viscosity at 23°C: 1.1 - 1.4 Pa s
- Shore hardness D: 80 - 90
- Colour: red
- Item no.: SD400090
SHERAprint-ortho plus

Light-curing 3D printing resin
certified as medical device class IIa
- for the production of bite splints and retainers as part of orthodontic treatments as well as surgical guides
- clear resin with maximum wear comfort
- very easy to polish and grind
- repairable with conventional resins
- biocompatible
- available in 1 litre bottles

Technical data
Viscosity at 23°C: 0.62 Pa s
Bending strength: 79 MPa
Bending e -module: 1,900 - 2,100 MPa
Shore hardness D: 74 - 83
Colour: clear
Item no.: SD400045

SHERAprint-tray

Light-curing 3D printing resin
Medical device class I
- for the production of customised impression trays
- can be used for all types of trays in combination with various impression materials
- biocompatible
- available in 1 litre bottles

Technical data
Viscosity at 23°C: 0.9 - 1.4 Pa s
Bending strength: ≥ 80 MPa
Bending e -modul: ≥ 2,000 MPa
Shore hardness D: 80 - 90
Colour: petrol
Item no.: SD400020
**SHERAprint-sg**

Light-curing 3D printing resin  
Medical device class I  
- for the production of customised surgical guides with high precision  
- sterilisable in autoclave  
- biocompatible  
- available in 1 litre bottles

**Technical data**

- Viscosity at 23°C: 1.1 - 1.6 Pa s  
- Bending strength: ≥ 80 MPa  
- Bending e-modul: ≥ 2,000 MPa  
- Shore hardness D: 80 - 90  
- Sterilisation at 134°C: max. 5 min  
- Colour: transparent orange  
- Item no.: SD400030

**SHERAprint-cb**

Light-curing 3D printing resin  
Medical device class I  
- for the production of temporary crowns and bridges  
- ideal for quick temporary restoration  
- very easy to polish and grind  
- biocompatible  
- customisable with tooth-coloured resins or composites  
- available in 1 litre bottles

**Technical data**

- Viscosity at 23°C: 0.9 - 1.4 Pa s  
- Bending strength: ≥ 85 MPa  
- Bending e-modul: ≥ 2,100 MPa  
- Absorption of water: < 30 μg/mm²  
- Water solubility: < 5 μg/mm²  
- Shore hardness D: 80 - 90  
- Colour: A3.5  
- Item no.: SD400011
3D Wash
Formulated for 3D Printing Machines

The 3D Wash machine cleaner is a fast evaporating cleaner that is recommended to be used as the final cleaning step prior to applying a coating product. It is designed to remove oils and grease. Apply in generous amounts on a dry surface for best results. While surface is wet wipe off with a clean/dry rag. It may be used on bare metals, cured and dried refinished surfaces. When used appropriately, the 3D wash is part of an effective biosecurity program aimed at reducing disease transmission and protecting human health.

Item no. 700205 (1 x 5L Box)

Resin Tank for 3D Printer

Item no. SD109813 (30 & 40)

Building Platform for 3D Printer