



Intro

CAM Software

Primeprint

Primeprint PPU

Material concept

Workflow

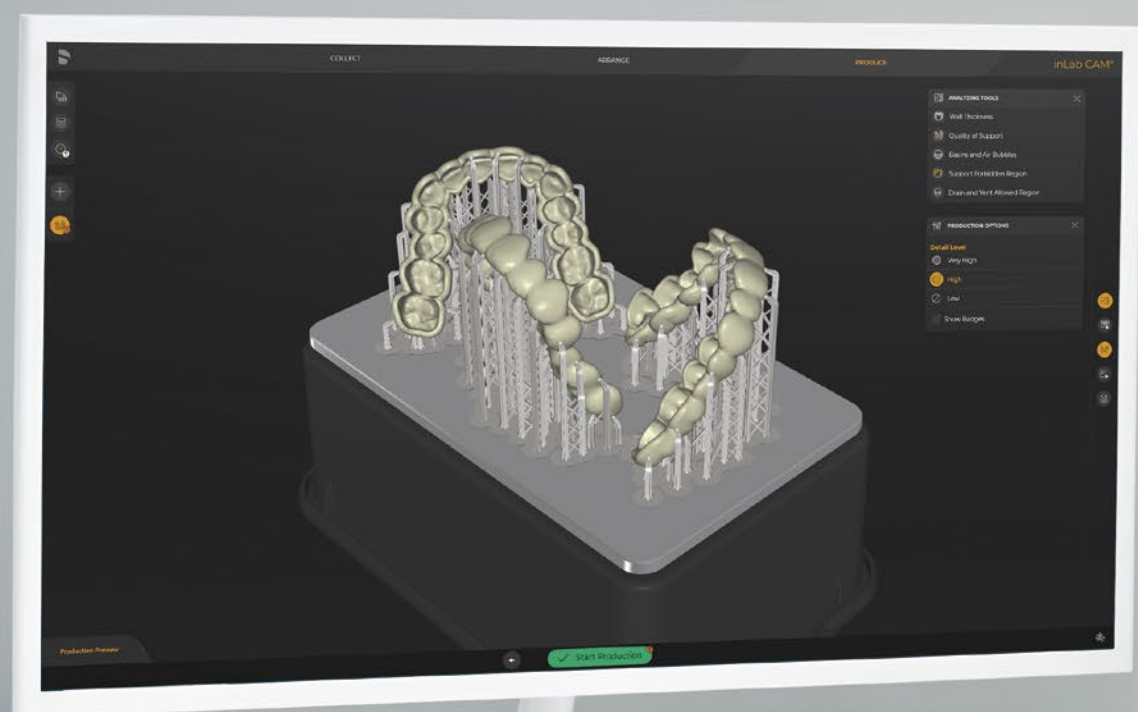
Technical specifications



3D printing solution for practice and lab

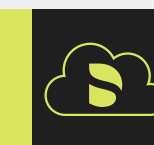
Primeprint Solution™

Learn more >



dentsplysirona.com/primeprint

Powered by
DS CORE





Primeprint Solution

Primeprint Solution is designed and built for dental excellence in practice and labs by one of the leading provider in digital dentistry. This 3D printing solution enables users to improve their patient's experience by offering additional procedures, such as splints, that can grow their practice and/or lab. Primeprint Solution is powered by DS Core, integrating seamlessly into existing digital workflows and with other solutions within the DS digital universe for excellent performance and growth opportunities in both dental practices and labs.

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Dr. Michael Skramstad (sponsored),
Dentist, Orono Dental Care,
Orono, MN, USA

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Primeprint Solution – A medical-grade 3D printing solution

Primeprint Solution is a simplified and highly automated end-to-end 3D printing solution, from dental intelligent software to 3D printing and fully automated post-processing. Regulated parameters help to ensure repeatable high quality of printed appliances for excellent treatment outcomes. Primeprint Solution offers convenient and easy 3D printing and post-processing for the production of biocompatible applications.

[Learn more >](#)

Click on each product to learn more

Scan

Primescan®

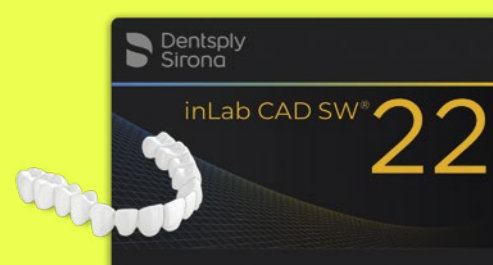


Design

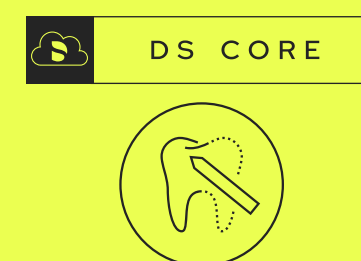
CEREC® Software



inLab® CAD Software



DS Core™ and DS Core™ Create



3D Printing with Primeprint Solution

inLab® CAM Software



Primeprint® and Primeprint PPU DS Core™ Care



Material concept



3D printing with Primeprint Solution is based on restoration data from various possible design options: Design with CEREC Software, inLab CAD Software, or DS Core Create – for a fully validated CAD/CAM workflow.



Designed and built for dental excellence

Primeprint Solution has been developed as a medical-grade 3D printing solution to enhance patient care. Dental intelligent software and hardware together enable you to print biocompatible applications with repeatable and accurate results.¹

Primeprint Solution allows for full delegation and helps you maximize your productivity thanks to its high level of automation and reduced handling times.

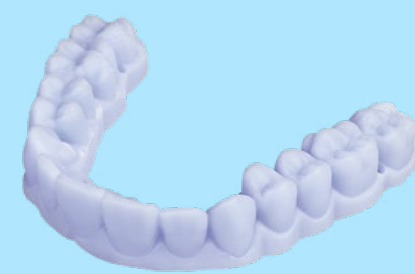
Primeprint's quality process protocol, involving automated processing times, supports a high level of safety based on medical device compliance and automatic case documentation. The innovative Primeprint Box enables convenient and easy material handling without direct contact with resins.

Dentsply Sirona developed Primeprint Solution according to the requirements outlined in the FDA's guidance "Technological considerations for additive manufactured medical devices". Furthermore, Primeprint Solution complies with MDR material manufacturer process specifications.

Applications with Primeprint Solution



Splint



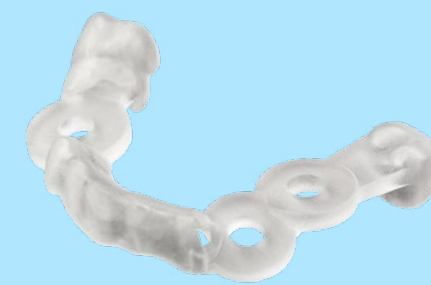
Thermoforming Model



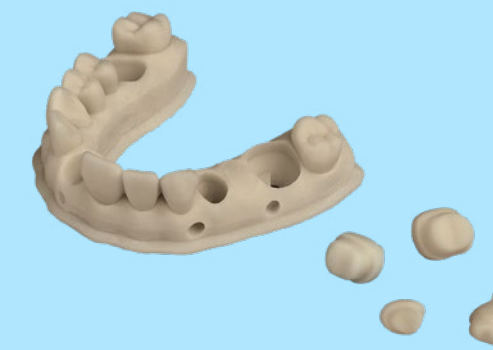
Impression Tray



Temporary



Surgical Guide



Working Model



Solid Model



Cast

¹ Reich S, Berndt S, Kühne CH, Herstell H. Accuracy of 3D-Printed Occlusal Devices of Different Volumes Using a Digital Light Processing Printer. Appl. Sci. 2022, 12(3), 1576; <https://doi.org/10.3390/app12031576>
Berndt S, Herstell H, Raith S, Kühne CH, Reich S. Accuracy of 3D-Printed Master Cast Workflow Using a Digital Light Processing Printer. Appl. Sci. 2022, 12(5), 2619; <https://doi.org/10.3390/app12052619>

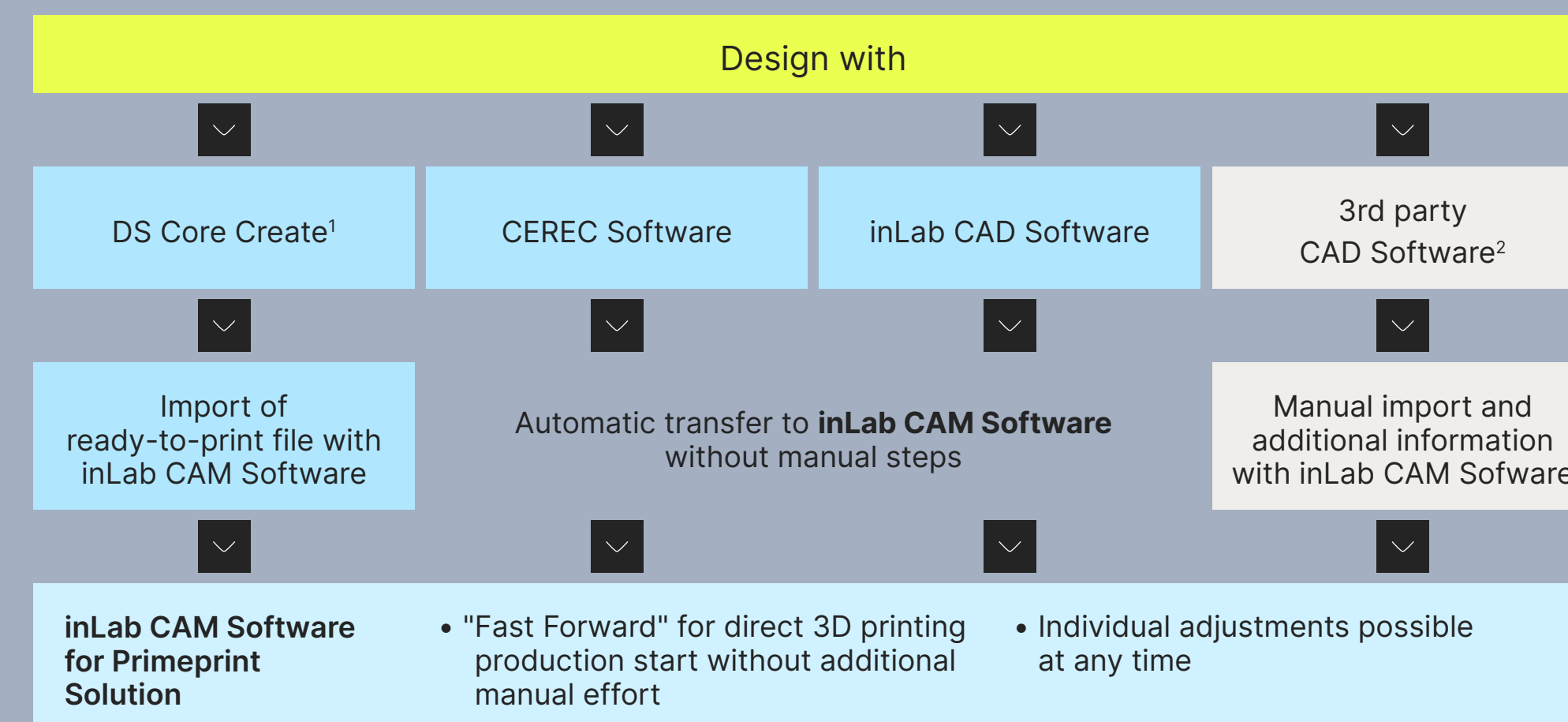


Primeprint Solution – CAM Software

The inLab CAM Software was specifically developed for use with Dentsply Sirona manufacturing units. With a few automated steps, you prepare the fully constructed application in the CAM software. The software controls all necessary print and post-processing steps in a fully automated way and monitors the complete process up to the building platform removal from the PPU.

Flexible integration and seamless workflows

3D printing with Primeprint Solution is based on restoration data from various possible design options.



¹ DS Core Create only available for DS Core active account. DS Core and DS Core Services are subject to country availability. Please contact your local DS representative.
² All design files in *.stl file format are beyond the intended use of the respective Dentsply Sirona production system and potentially inadequate. Dentsply Sirona rejects liability for all possible risks to the user, third parties, and the production device itself with all associated components when processing designs based on *.stl file format.

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CAM software functions

"Fast Forward" production >

Dental Intelligence from CAD to CAM >

Object positioning >

Preparation of object and fabrication structures >

Analysis tools >

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Christian Schuchmann (sponsored),
Dental Technician and Managing
Director Dental-Labor Teuber,
Darmstadt, Germany





Primeprint – 3D Printer

Before starting the manufacturing step, the Primeprint Material Unit and Primeprint Box together with the building platform are inserted into the 3D printer, then the print process can begin immediately. After completing the print, the 3D printer can directly be prepared for the next print job. Simply change Primeprint Box and material unit.



Click on a image to learn more




Learn more >



Click on the arrow to learn more

The product display provides supporting information about various functions and statuses:

- Availability of Primeprint Box, material unit and job data
- System settings and routine actions
- Start preheating
- Resin amount per job, remaining resin and color coding



Dr. Meena Barsoum (sponsored),
Dentist, Impressive Smiles,
Arlington Heights, IL, USA





Primeprint PPU – Post-Processing Unit

The PPU performs all post-processing steps required for the dental 3D print automatically and without manual interaction – with the option to delegate.



- Pre-washing: First wash cycle
- Final washing: Second wash cycle
- Drying
- Light-curing

Thus, any time-consuming manual post-processing is eliminated. All PPU process steps are protected from UV light and are controlled and monitored by the CAM software. A protocol can be created as PDF.

Click on a image to learn more



The process can be started directly via the Primeprint PPU 7" touch screen, and various information can be obtained, e.g.:

- Job availability and status
- Washing container availability and status
- System setting
- Start job and more.

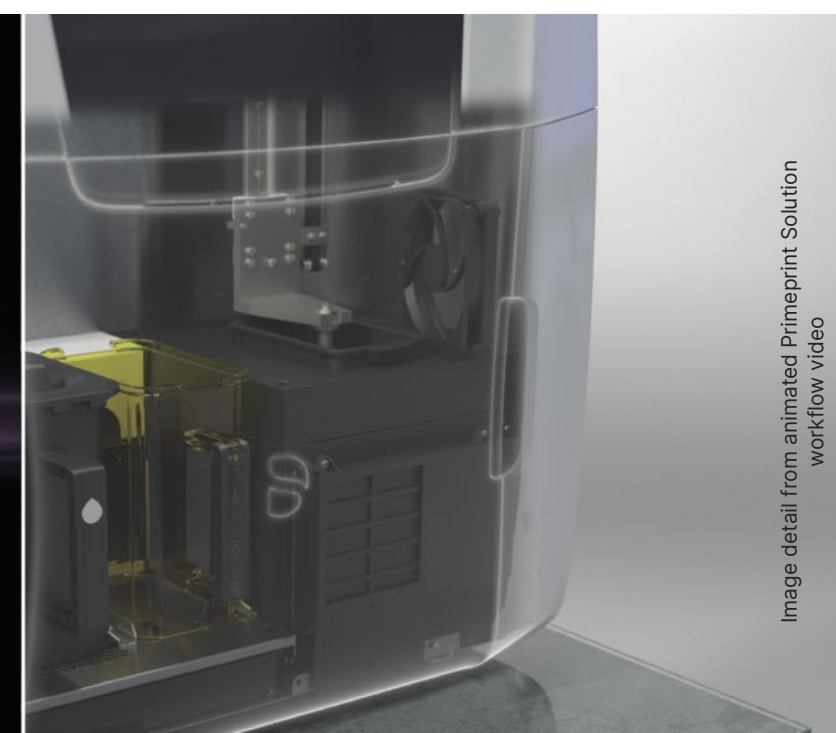


Image detail from animated Primeprint Solution workflow video





Primeprint Solution – Material concept

Validated materials and RFID-supported, automated material management support quality, process, and documentation security. All material parameters were optimized to offer a high level of process safety for each application.

The Primeprint material concept offers user-friendly support with its color-coded material cartridge system. Each print material type is associated with a different color, which is mirrored in the CAM software for quick orientation, for correct material selection, and easily identifiable storage.

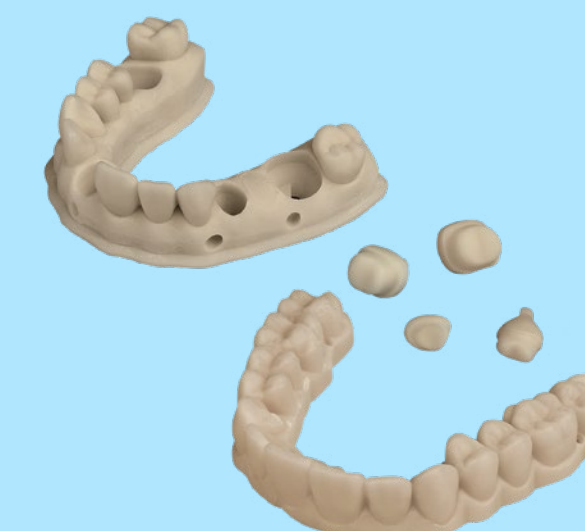


Primeprint Material Unit with inserted material cartridge

Materials



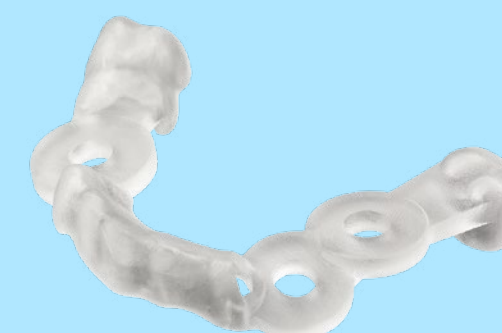
Primeprint Splint



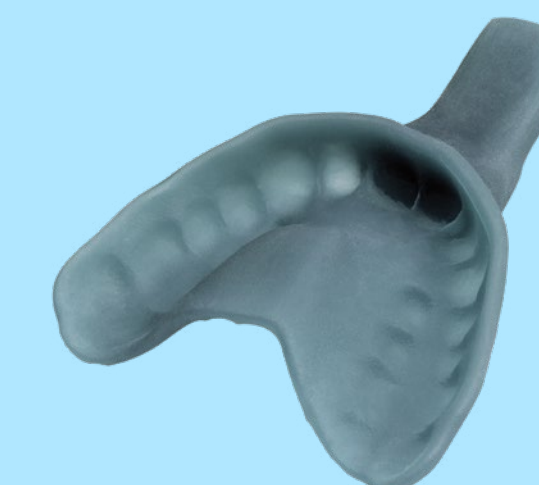
Primeprint Model



Primeprint Model T



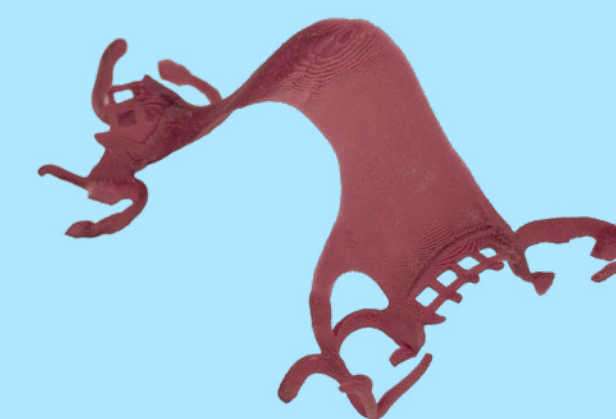
Primeprint Guide



Primeprint Tray



Primeprint Temp



Primeprint Cast

Click on an image to learn more about application and properties of the materials



Primeprint Solution – In the practice

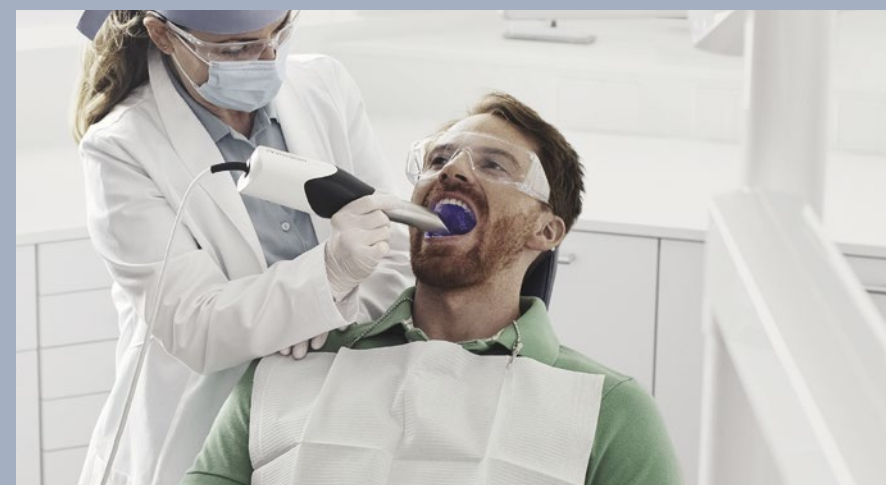
Primeprint Solution enables dentists to improve patient experience and offer additional procedures, thereby expanding their practice. It integrates easily into existing digital workflows and seamlessly into the entire DS Digital Universe for excellence in dental practices.

[Learn more >](#)

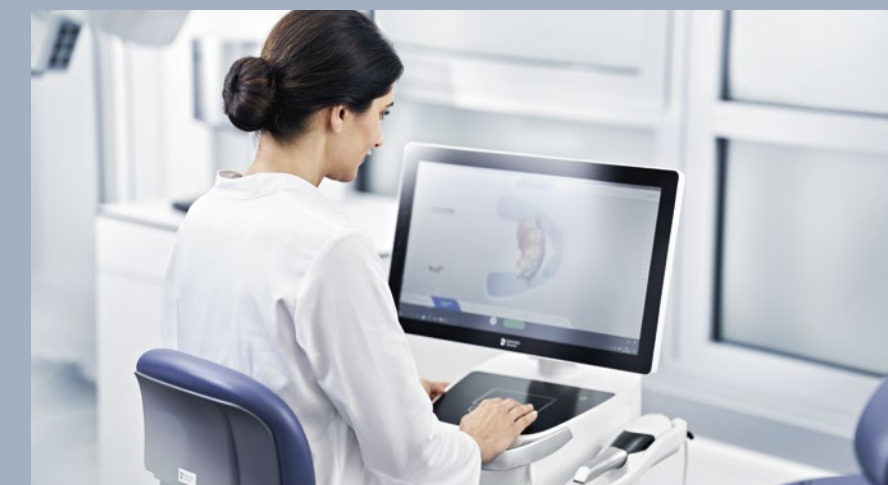


Click on the arrow to learn more

∨ The Primeprint Solution workflow in the practice:



1 Intraoral scanning



2 Application design



3 Preparation of print job



4 3D printing and post-processing




5 Finalization

Click here to go to the workflow of a surgical guide – just scan the QR code!



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“



Dr. Verena Freier (sponsored),
Dentist, Zahnmedizin Bad Soden,
Germany

∨



Primeprint Solution – In the dental lab

Primeprint Solution expands the digital manufacturing options in the dental lab and can be integrated easily into existing digital workflow.

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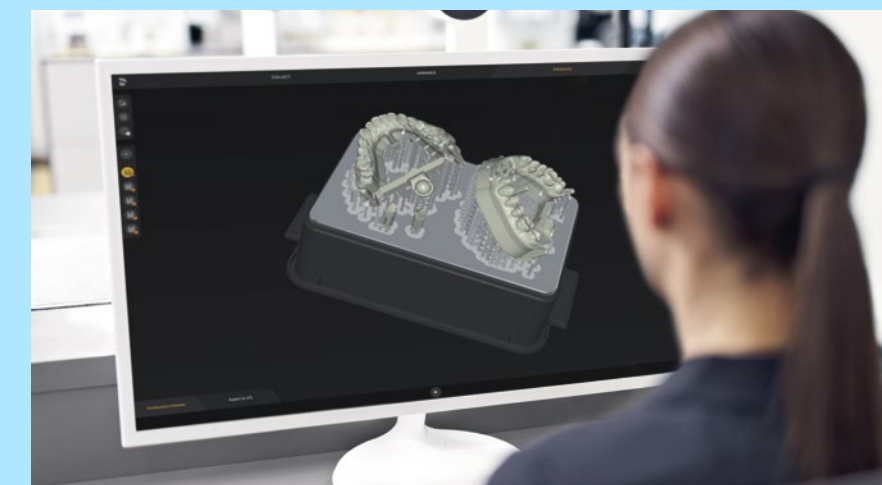
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The Primeprint Solution workflow in the dental lab:



1 Digital design



2 Preparation of print job



3 3D printing and post-processing



4 Finalization



Scan now:
Take a look at the workflow of a working model



1 All design files in *.stl file format are beyond the intended use of the respective Dentsply Sirona production system and potentially inadequate. Dentsply Sirona rejects liability for all possible risks to the user, third parties, and the production device itself with all associated components when processing designs based on *.stl file format.



Hardware/Software

PC requirements

inLab PC ≥ 5.0 or inLab 4 PC with Performance Package

Software requirements

CEREC Software 5.2.3 or inLab CAD Software 22.1.0, inLab Apps 22.0.0, inLab CAM SW 22.1.0

Primeprint

Dimensions WxHxD (in mm)

530 × 670 × 515

Dimensions WxHxD (in inches)

20.86 × 26.37 × 20.27

Weight

41 kg / 90.38 lb

Nominal system voltage

AC 100 V... 240 V

Nominal system frequency

50/60 Hz

Rated current

2,0 A–0,85 A

Ports

USB type A, USB type B, LAN connection via RJ45, power connection

Printer control

7" color touchscreen

Print technology

Digital Light Processing

Wavelength

385 nm

Projector resolution

1920 × 1080 pixel ("Full HD")

Layer thickness

50 μm, 100 μm, 200 μm

Pixel size

70 μm

Print volume WxHxD

134 × 150 × 76 (in mm) / 5.28 × 5.91 × 2.99 (in inches)

Resin fill system

Automated, cartridge-based

Foil lifetime

> 250 print jobs

Integrated filters

Activated carbon filter, air filter

Quality protocol

Available for every print job, based on RFID tag information

Sensing and monitoring System

Resin level, cartridge volume and resin type, filter lifetime, light source power, status of Primeprint Box and Material Unit

[Intro](#)[CAM Software](#)[Primeprint](#)[Primeprint PPU](#)[Material concept](#)[Workflow](#)[Technical specifications](#)

Primeprint PPU	
Dimensions WxHxD (in mm)	730 × 670 × 515
Dimensions WxHxD (in inches)	28.74 × 26.37 × 20.27
Weight	50 kg
Nominal system voltage	AC 100 V ... 240 V
Nominal system frequency	50/60 Hz
Rated current	4.2–2.2 A
Ports	USB type A, USB type B, LAN connection via RJ45, power connection, nitrogen port
Control	7" color touchscreen, automated assignment of wash and post-processing exposure settings
Post-processing volume WxHxD	134 × 150 × 76 (in mm) / 5.28 × 5.91 × 2.99 (in inches)
Cleaning agent volumes	2.5 L per container
Number of washing containers	2 per material
Compatible cleaning agent	Isopropyl, 99%
Post-curing atmosphere	Nitrogen atmosphere created by purity level 2.8 nitrogen, equivalent to 99.8%
Nitrogen pressure	4–8 bar
Post-curing temperature	up to 80°C / 176 °F
Integrated filters	Activated carbon filter, ozone filter
Quality protocol	Available for every print job, based on RFID tag information
Sensing and Monitoring System	Solvent level, solvent saturation, flashlight lifetime, filter lifetime



Material																															
Cartridge dimensions WxHxD (in mm)	260 × 40 × 150																														
Cartridge dimensions WxHxD (in inches)	10.24 × 1.57 × 5.90																														
Resin amount per cartridge	1 kg																														
Available materials and colors	<table border="1"><thead><tr><th></th><th>Medical product class MDR</th><th>Medical product class FDA</th></tr></thead><tbody><tr><td>Primeprint Cast</td><td>TEC resin</td><td>TEC resin</td></tr><tr><td>Primeprint Guide</td><td>IIa</td><td>I</td></tr><tr><td>Primeprint Model</td><td>TEC resin</td><td>TEC resin</td></tr><tr><td>Primeprint Model T</td><td>TEC resin</td><td>TEC resin</td></tr><tr><td>Primeprint Splint</td><td>IIa</td><td>I</td></tr><tr><td>Primeprint Temp A1</td><td>IIa</td><td>II</td></tr><tr><td>Primeprint Temp A2</td><td>IIa</td><td>II</td></tr><tr><td>Primeprint Temp A3</td><td>IIa</td><td>II</td></tr><tr><td>Primeprint Tray</td><td>I</td><td>I</td></tr></tbody></table>		Medical product class MDR	Medical product class FDA	Primeprint Cast	TEC resin	TEC resin	Primeprint Guide	IIa	I	Primeprint Model	TEC resin	TEC resin	Primeprint Model T	TEC resin	TEC resin	Primeprint Splint	IIa	I	Primeprint Temp A1	IIa	II	Primeprint Temp A2	IIa	II	Primeprint Temp A3	IIa	II	Primeprint Tray	I	I
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Primeprint Splint	IIa	I																													
Primeprint Temp A1	IIa	II																													
Primeprint Temp A2	IIa	II																													
Primeprint Temp A3	IIa	II																													
Primeprint Tray	I	I																													
Process validation	Performed for all materials																														
Lifetime	24 months																														
Cartridge identification	RFID tag and color coding																														



Intro

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Dentsply Sirona

Sirona Dental Systems GmbH
Fabrikstraße 31, 64625 Bensheim, Germany
[dentsplysirona.com](https://www.dentsplysirona.com)

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SOLUTIONS
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Primeprint Solution

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Dr. Michael Skramstad (sponsored),
Dentist, Orono Dental Care,
Orono, MN, USA

3D printing has just taken the next leap forward with Primeprint. With the combination of complete integration, enclosed automated workflow, and industry defining efficiency, Primeprint gives me and, most importantly, my staff confidence that we are delivering very good and safe 3D printed parts to our patients. Furthermore, the automation supports that every application we 3D print is processed, cleaned and cured to a very high standard.





Primeprint Solution – A medical-grade 3D printing solution

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3D printing and
for excellent treatment
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Primescan

Primescan is a highly accurate scanner with the potential to enable clinicians to digitalize all indications. The intraoral scanner assists the expansion of dental practices through increased treatment options, now and in the future. With Primescan, dentists can arrange their workflows according to their preferences.

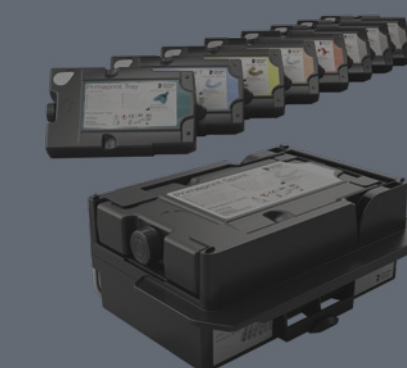
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Material
concept



possible design options: Design with CEREC Software, inLab CAD Software, or DS Core Create – for a fully validated CAD/CAM workflow.



Primeprint Solution – A medical-grade 3D printing solution

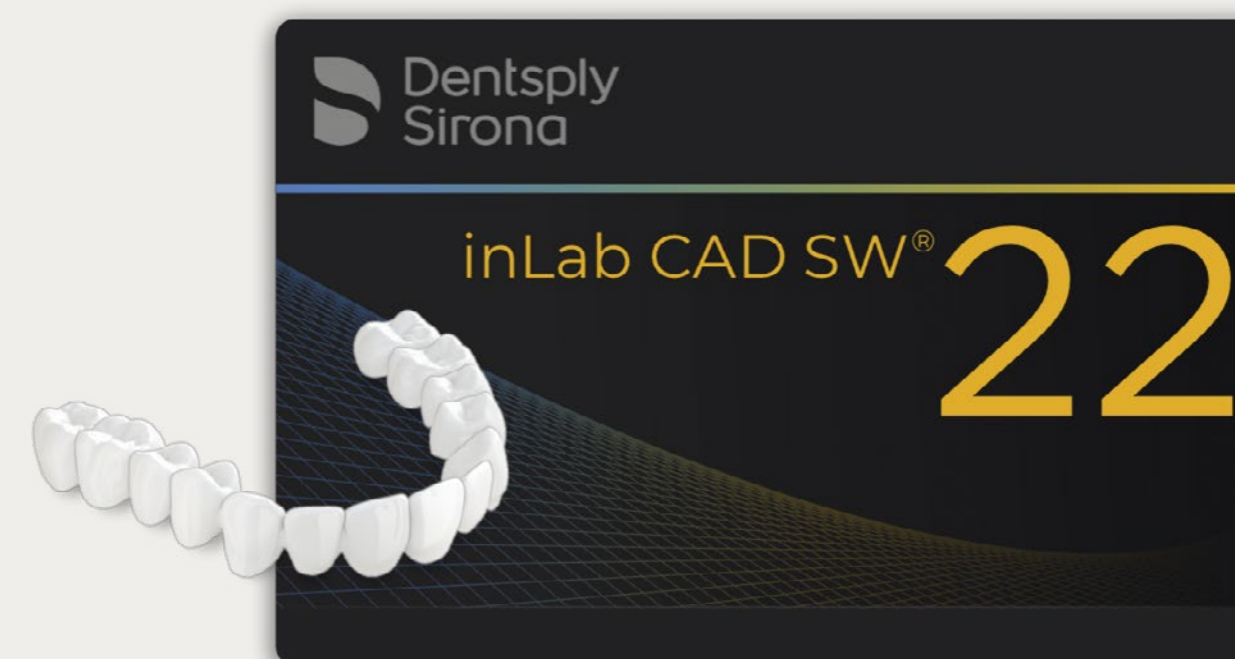
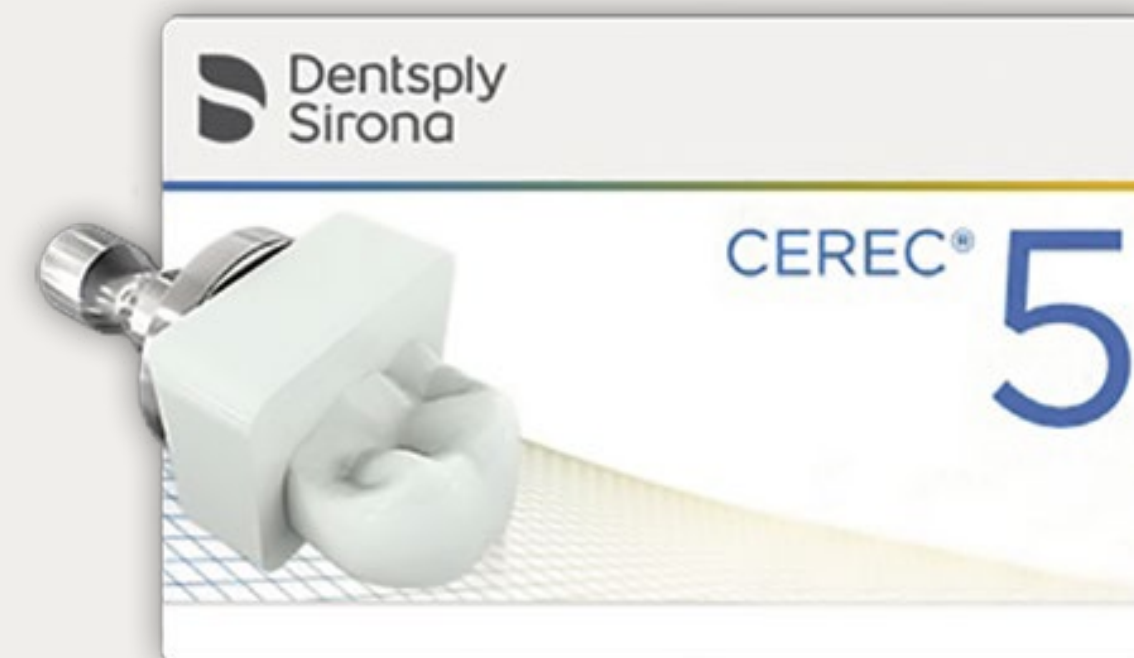
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CEREC Software and inLab CAD Software

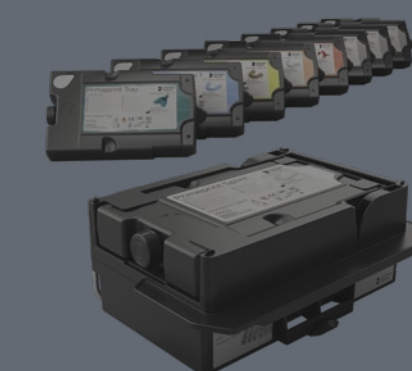
The upstream design steps of the CEREC and inLab CAD Software automatically take into account the parameters required for the subsequent 3D printing with Primeprint. For users of 3rd party CAD software, the design data in STL format can be imported into the CAM Software.



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DS Core and DS Core Create

DS Core is the gateway to the digital universe of Dentsply Sirona solutions, built to empower your growth by offering a more integrated practice. DS Core provides a cloud storage and patient files sharing solution that supports GDPR/HIPAA compliant collaboration with colleagues and partners.^{1,2}

With DS Core Create dentists get access to high-quality custom designs created by expert lab technicians. The designs can easily be requested via DS Core without having to operate a design software.^{1,3}

Learn more >

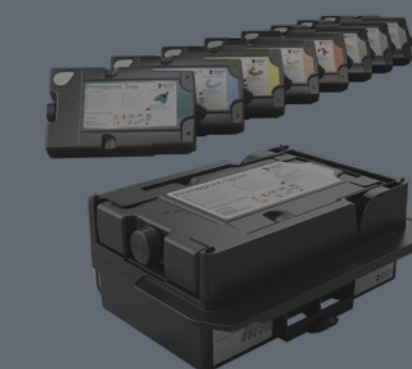
1 DS Core and DS Core Services are subject to country availability. Please contact your local DS representative.
2 DS Core is not a medical software. It is not intended to diagnose, treat, cure or prevent any disease or health condition. Use only for information, education or sharing purposes.
3 DS Core Create only available for DS Core active account.



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Primeprint Solution – A medical-grade 3D printing solution

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inLab CAM Software

The software offers fast and user-friendly preparation of the print object with just a few clicks. Primeprint's quality process protocol, involving automated process times, supports a high level of safety based on medical device compliance and automatic case documentation.

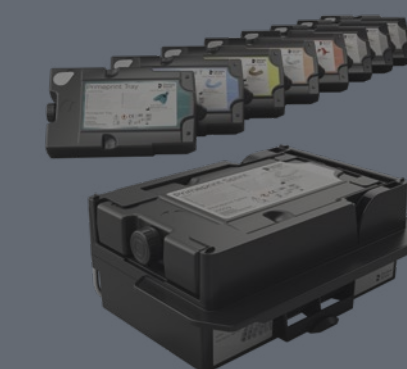


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Primeprint and Primeprint PPU DS Core™ Care

3D printing, washing and light-curing in highly automated processes with just two devices – the Primeprint 3D printer and the Primeprint PPU (Post processing unit). The innovative Primeprint Box enables convenient and easy material handling without direct contact with resins.

DS Core Care is a comprehensive technical service and support solution that protects your Primeprint.¹ It provides telephone support, quick supply of spare parts from the original manufacturer, customer support portal, and preventive maintenance to help optimize equipment lifetime, therefore allowing you to spend more time focusing on your patients.

Learn more
Primeprint / Primeprint PPU >

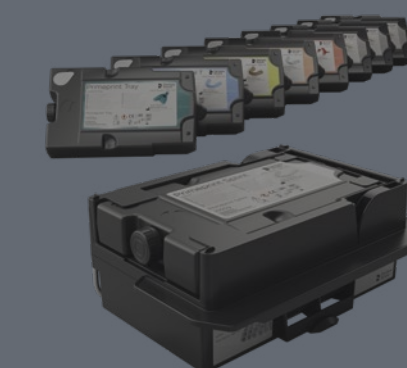
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DS Core Care >



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¹ DS Core and DS Core Services are subject to country availability. DS Core Care is not yet available for devices sold to laboratories. Please contact your local DS representative.

possible design options: Design with CEREC Software, inLab CAD Software, or DS Core Create – for a fully validated CAD/CAM workflow.



Primeprint Solution – A medical-grade 3D printing solution

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Material concept

Primeprint Solution is supported by a comprehensive and well thought-out material concept, which includes a material unit for holding the material cartridges – one cartridge for each application. The intelligent material handling concept was developed for safe and clean usage, with RFID coding throughout the complete manufacturing process for ultimate peace of mind.

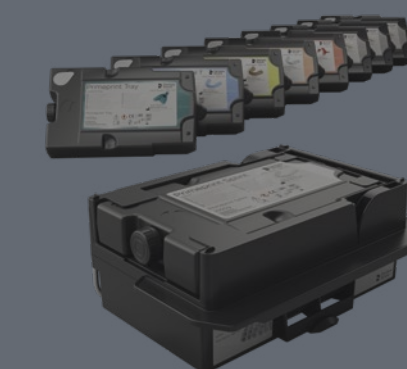
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CAM software functions

"Fast Forward" production >

Dental Intelligence from CAD to CAM >

Object positioning >

Preparation of object and fabrication structures >

Analysis tools >

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Christian Schuchmann (sponsored),
Dental Technician and Managing
Director Dental-Labor Teuber,
Darmstadt, Germany

I am more than enthusiastic about Primeprint Solution, as it means 3D printing on a completely new level for our dental lab. The intelligent CAM software already places the print objects appropriately on the building platform with the "Fast Forward" function. I can quickly and easily switch between the different materials and work with a high level of efficiency. The handling with the color-coded material units and washing containers makes the entire process clean and efficient, and thanks to the activated carbon filter I can also work easily with Isopropanol. The printer speed allows me to run multiple print jobs, even during the day. Previously, I was used to print overnight and was then stuck with a material – this has changed now.





CAM software functions

"Fast Forward" production



Dental Intelligence from CAD to CAM



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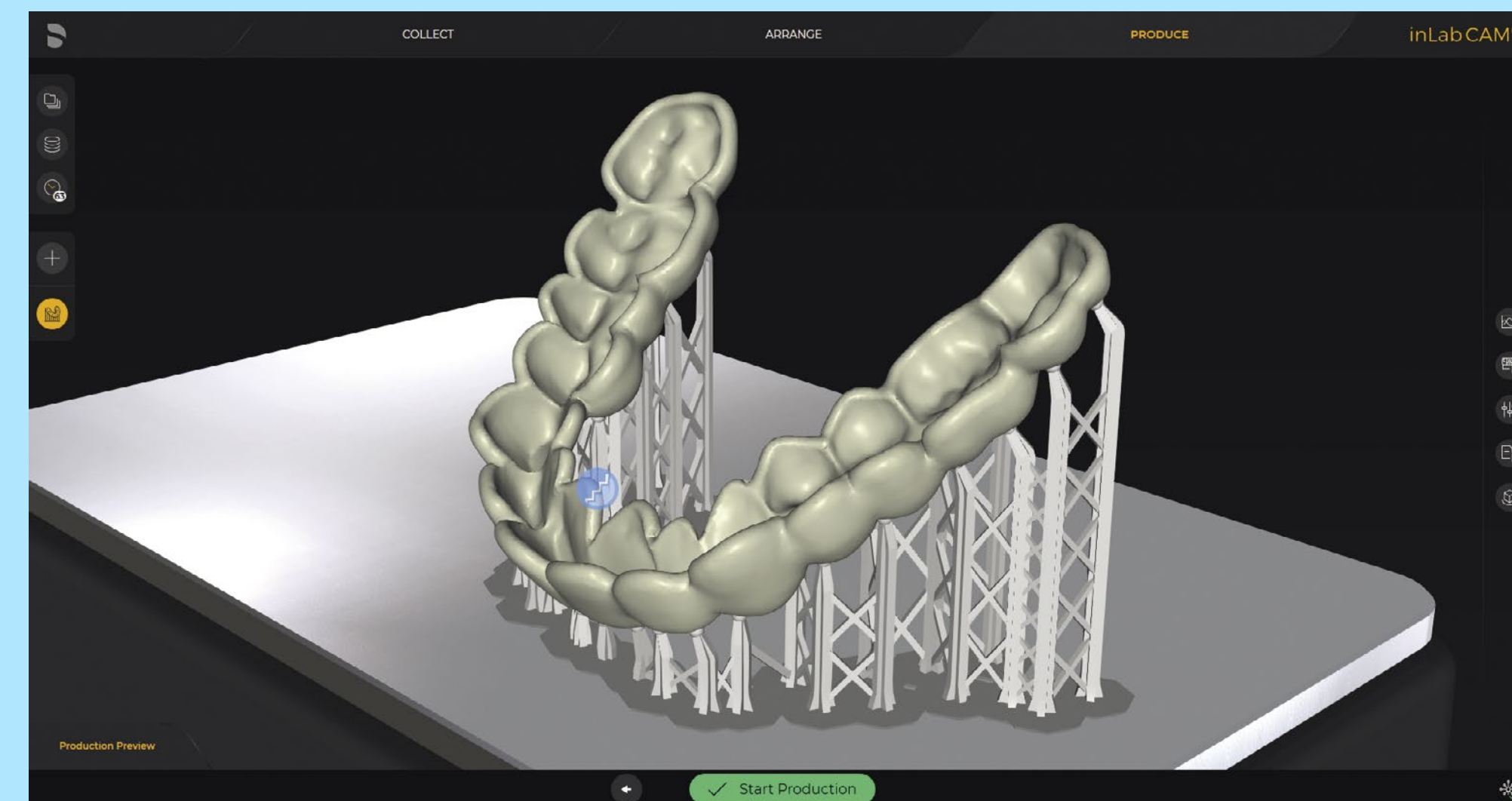
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Dental Technician and Managing
Director Dental-Labor Teuber,
Darmstadt, Germany

"Fast Forward" production



The printing process can be initiated immediately, in a time saving manner and without the need for further manual adjustments. Alternatively, the CAM software guides the user step-by-step through the particular print object preparation, offering different adjustment options as desired.



CAM software functions

"Fast Forward" production



Dental Intelligence from CAD to CAM



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Preparation of object and fabrication structures



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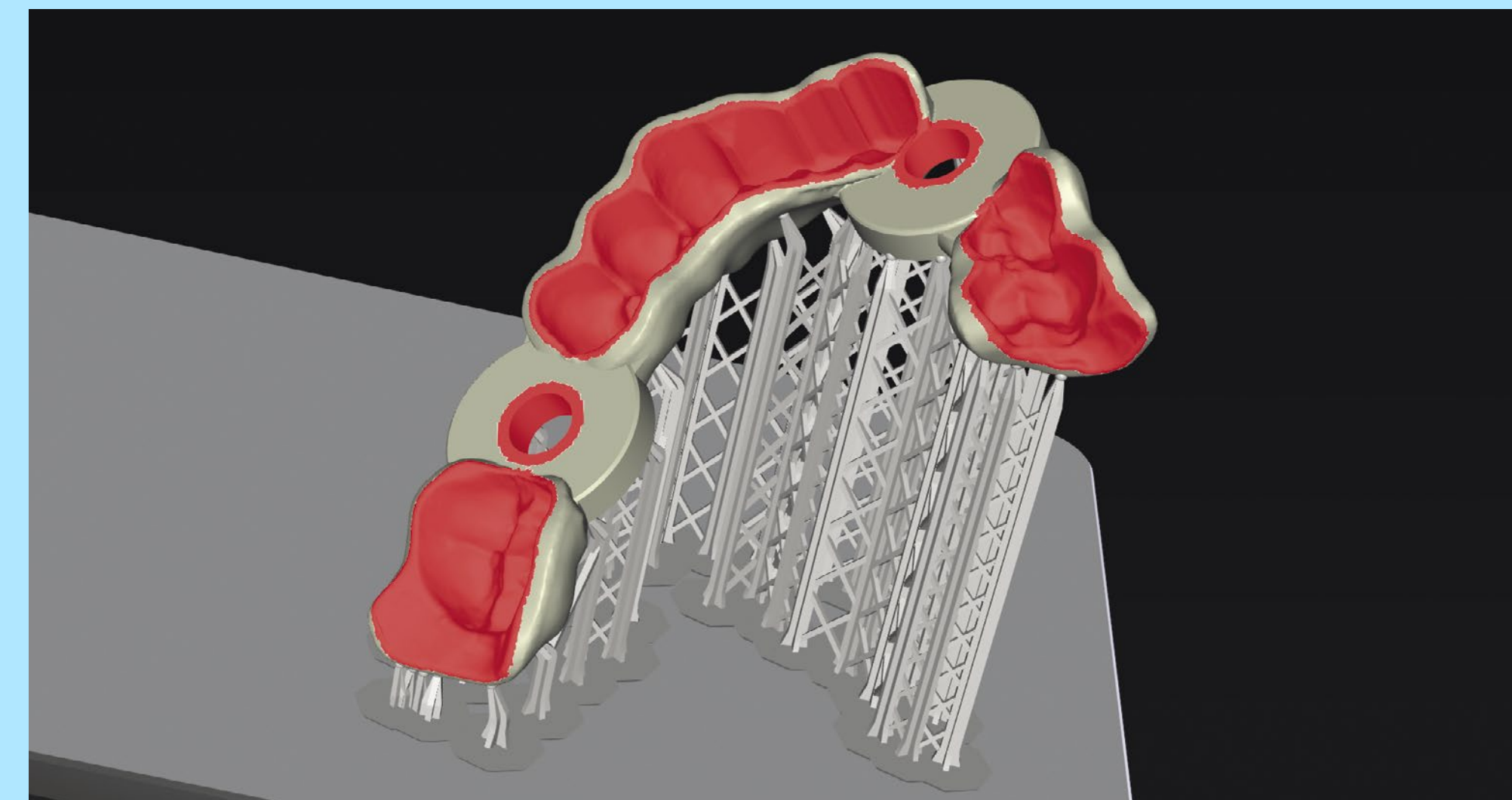
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Dental Technician and Managing
Director Dental-Labor Teuber,
Darmstadt, Germany

Dental Intelligence from CAD to CAM

- Object data designed with CEREC or inLab CAD Software are seamlessly transmitted to the inLab CAM Software, without the need for further manual steps
- The CAM software automatically suggests the Primeprint validated print material for each print object
- The CAM software automatically incorporates the requirements regarding alignment, support, and post-processing for each print object



In addition to purely geometrical generated design data, CEREC and inLab CAD Software contain additional specific dental information regarding application aspects, such as functional areas and important geometries, which require special consideration during the 3D printing process. For 3D prints with Primeprint Solution, the CAM software algorithm detects and applies this specific dental information to optimize the print job.



An example



CAM software functions

"Fast Forward" production



Dental Intelligence from CAD to CAM



Object positioning



Preparation of object and fabrication structures



Analysis tools



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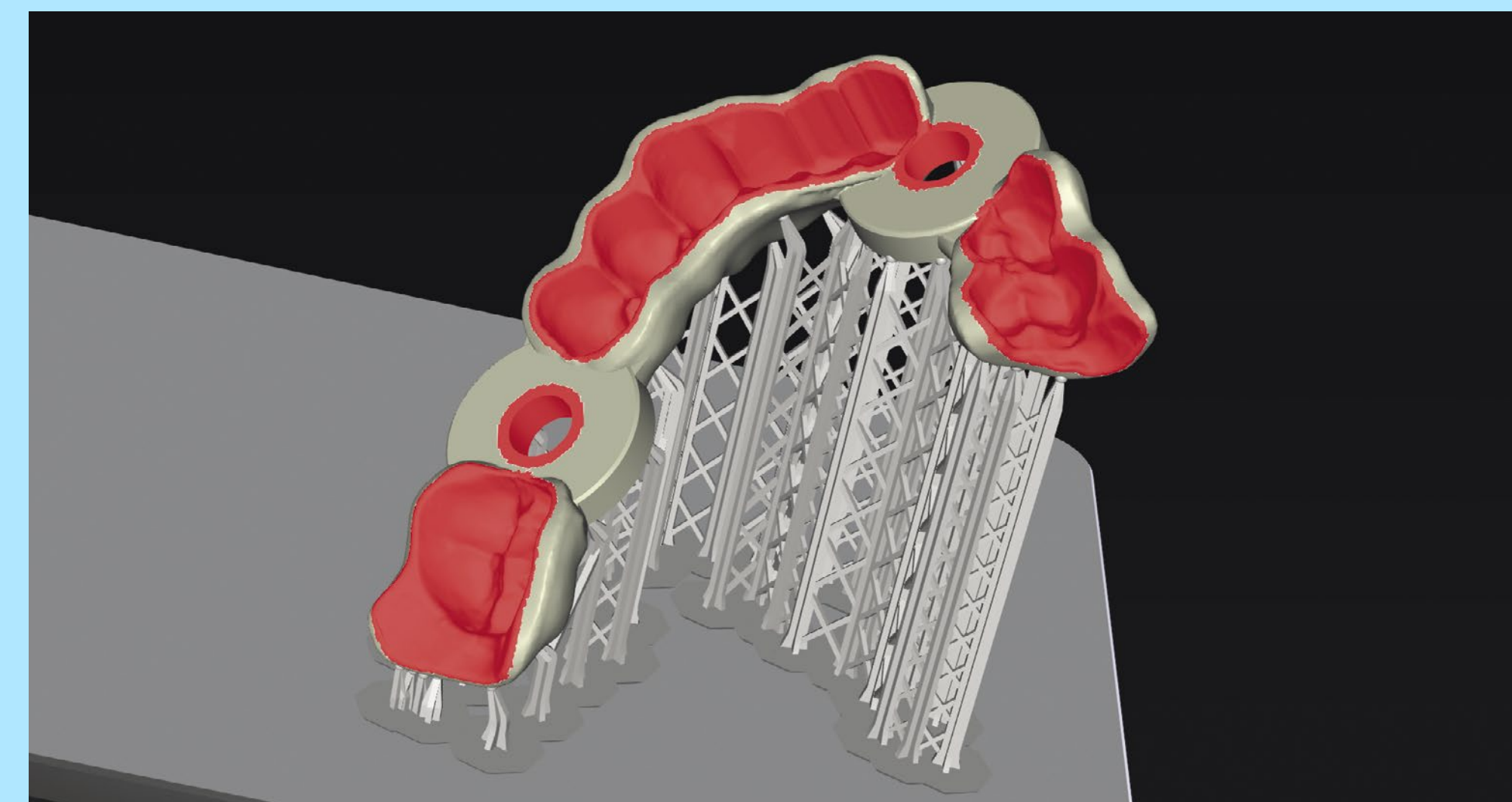
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Dental Intelligence from CAD to CAM

- Object data designed with CEREC or inLab CAD Software are seamlessly transmitted to the inLab CAM Software, without the need for further manual steps
- The CAM software automatically suggests the Primeprint validated print material for each print object
- The CAM software automatically incorporates the requirements regarding alignment, support, and post-processing for each print object



In addition to purely geometrical generated design data, CEREC and inLab CAD Software contain additional specific dental information regarding application aspects, such as functional areas and important geometries, which require special consideration during the 3D printing process. For 3D prints with Primeprint Solution, the CAM software algorithm detects and applies this specific dental information to optimize the print job.



A surgical guide has two particularly sensitive aspects: The guide sleeve must fit exactly into the hole, and there must be an exact fit in areas with remaining dentition. The CAM software automatically takes these requirements into consideration for 3D prints with Primeprint Solution.



CAM software functions

"Fast Forward" production >

Dental Intelligence from CAD to CAM >

Object positioning <

Preparation of object and fabrication structures >

Analysis tools >

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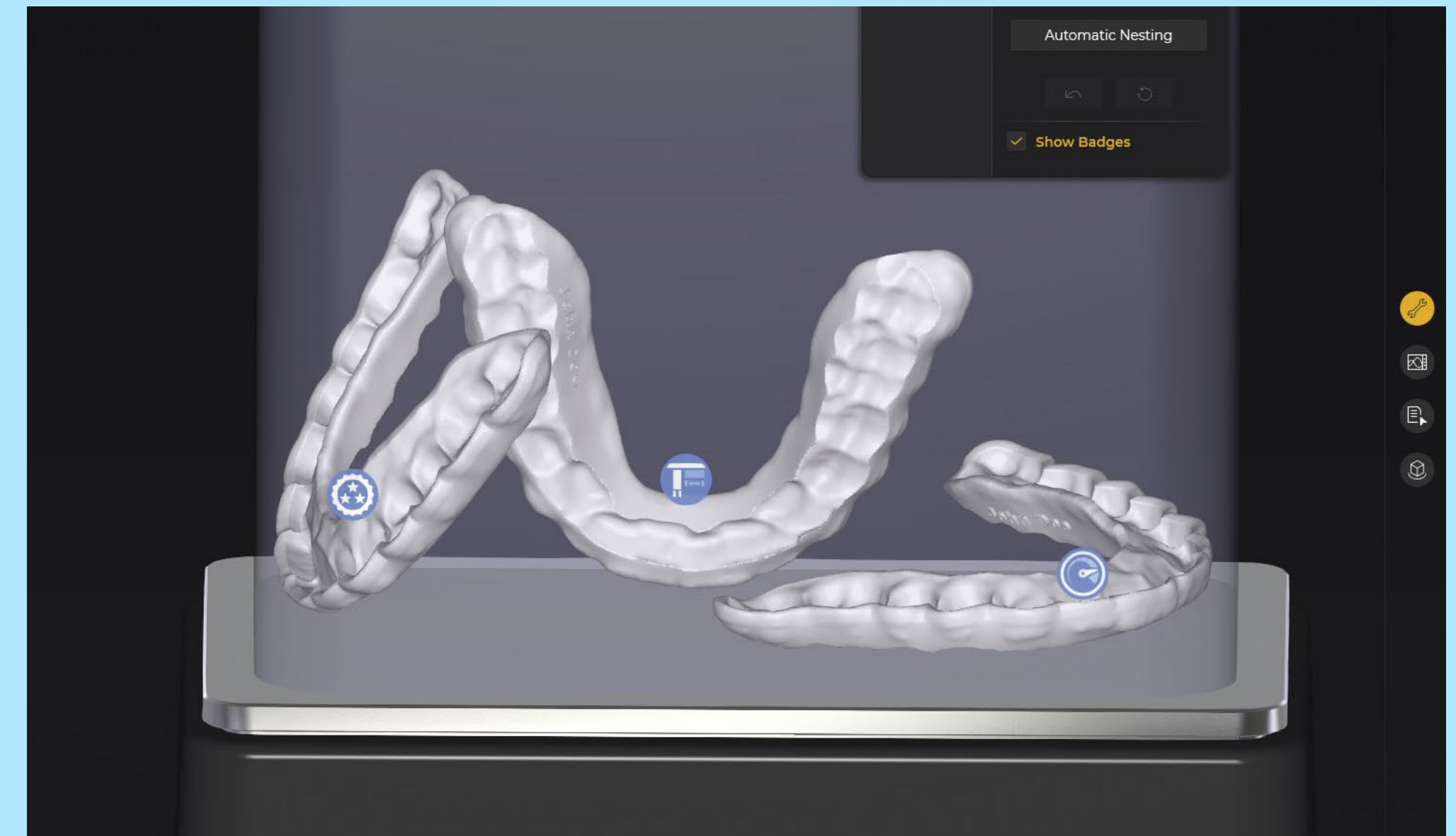


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Dental Technician and Managing
Director Dental-Labor Teuber,
Darmstadt, Germany

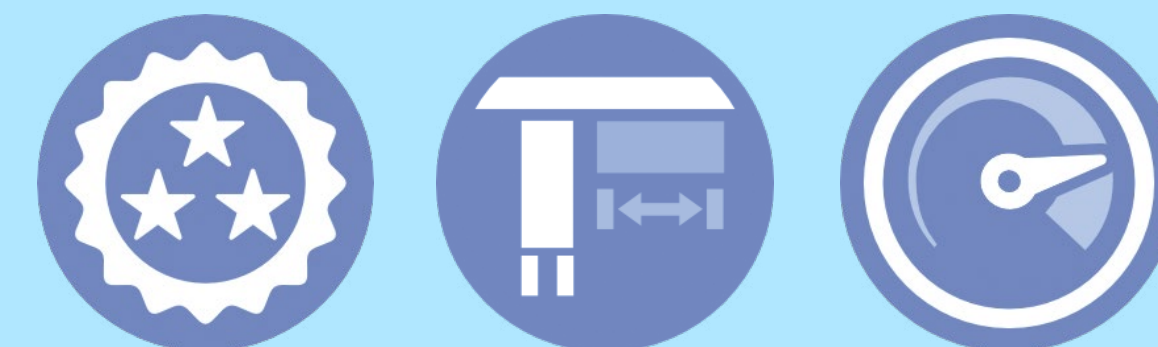
Object positioning

The software automatically sets the print object on the building platform based on the selected orientation strategy. Manual processing is possible, but not needed in most cases.

In addition, the print object can be individually positioned on the building platform and freely moved horizontally and vertically as well as rotated 3-dimensionally.



Automatic orientation strategies



Click on the icons to learn more



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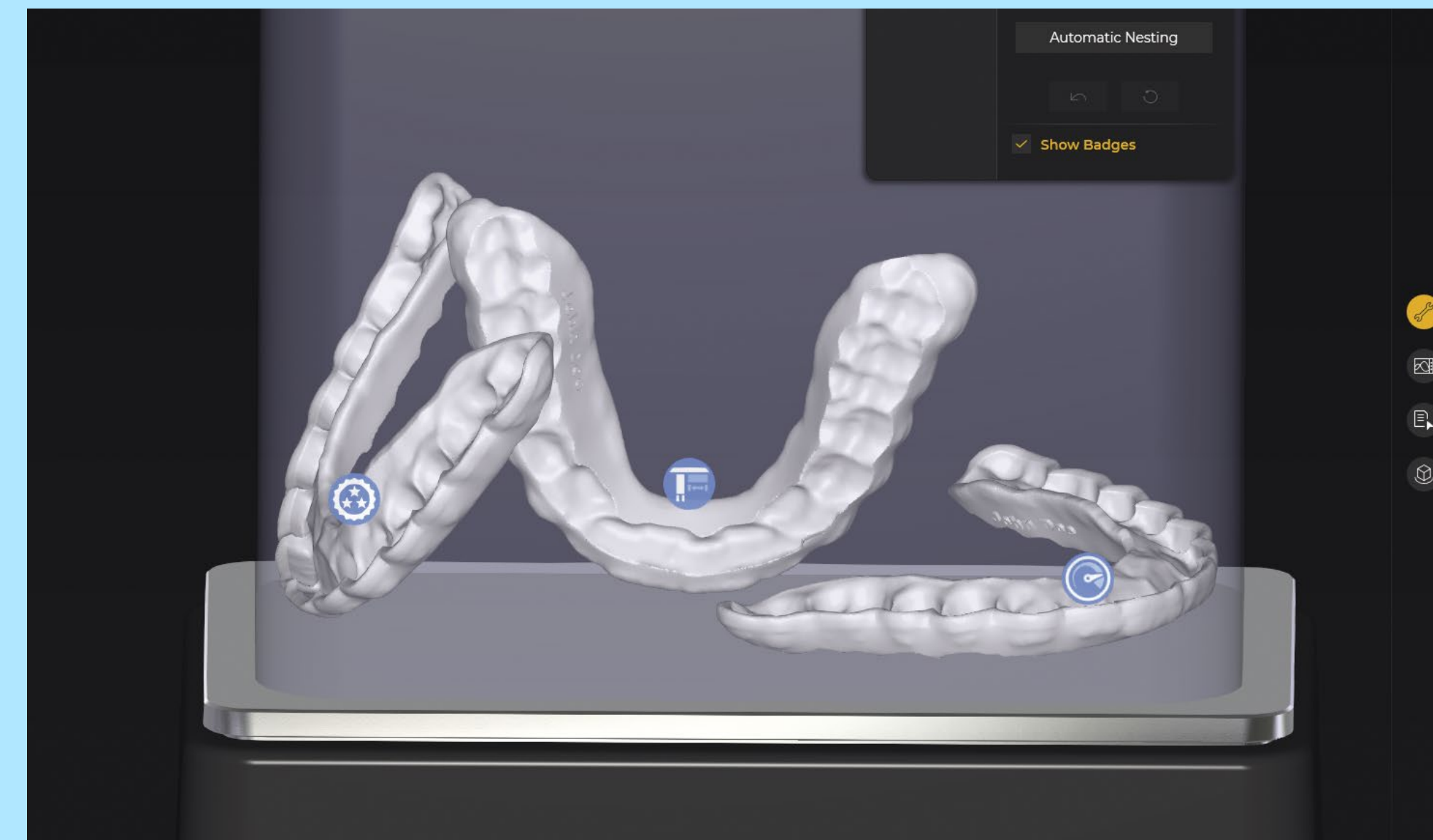


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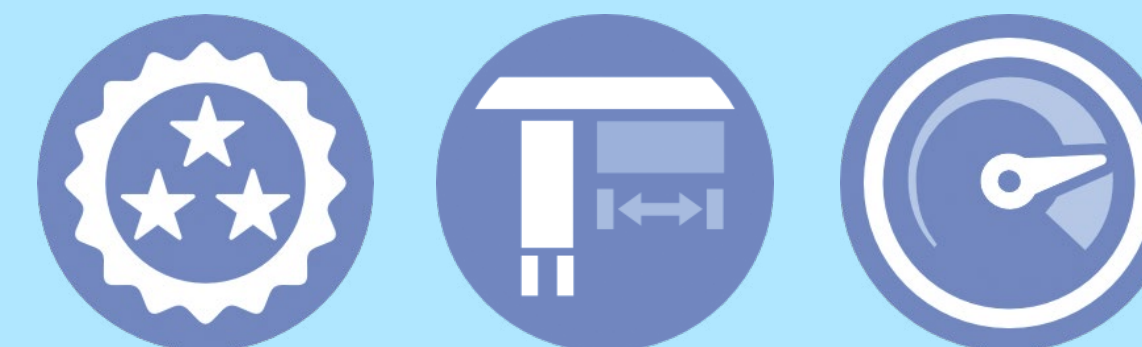
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Automatic orientation strategies



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The specified surface attributes and the qualities of high level of printability and washability determine optimized quality orientation.





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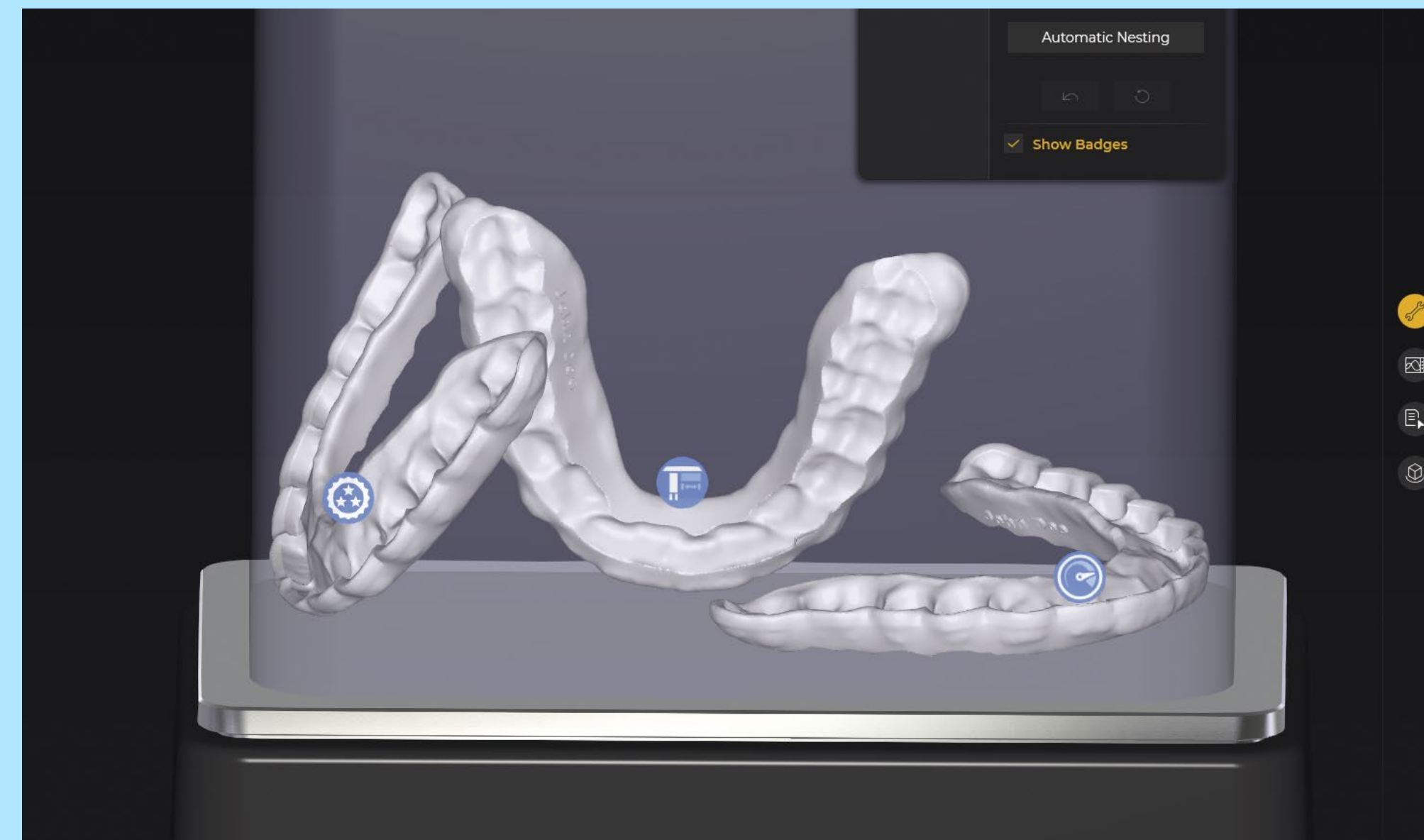


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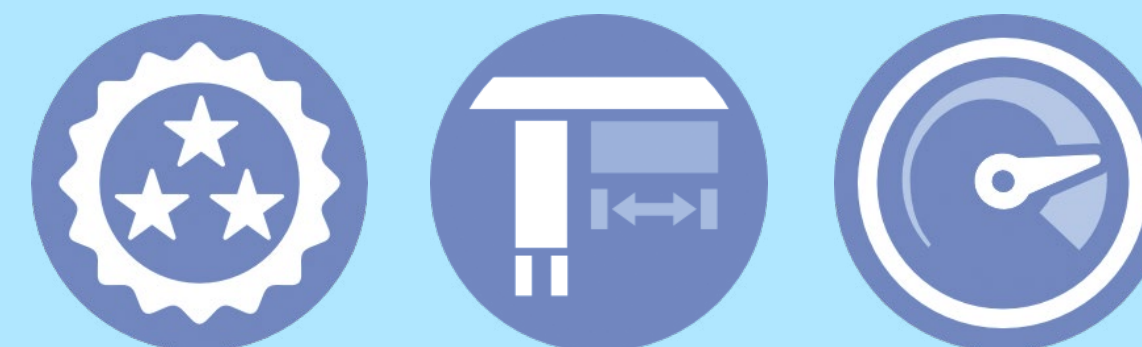
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Automatic orientation strategies



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The base space optimization supports efficient use of the building platform space.





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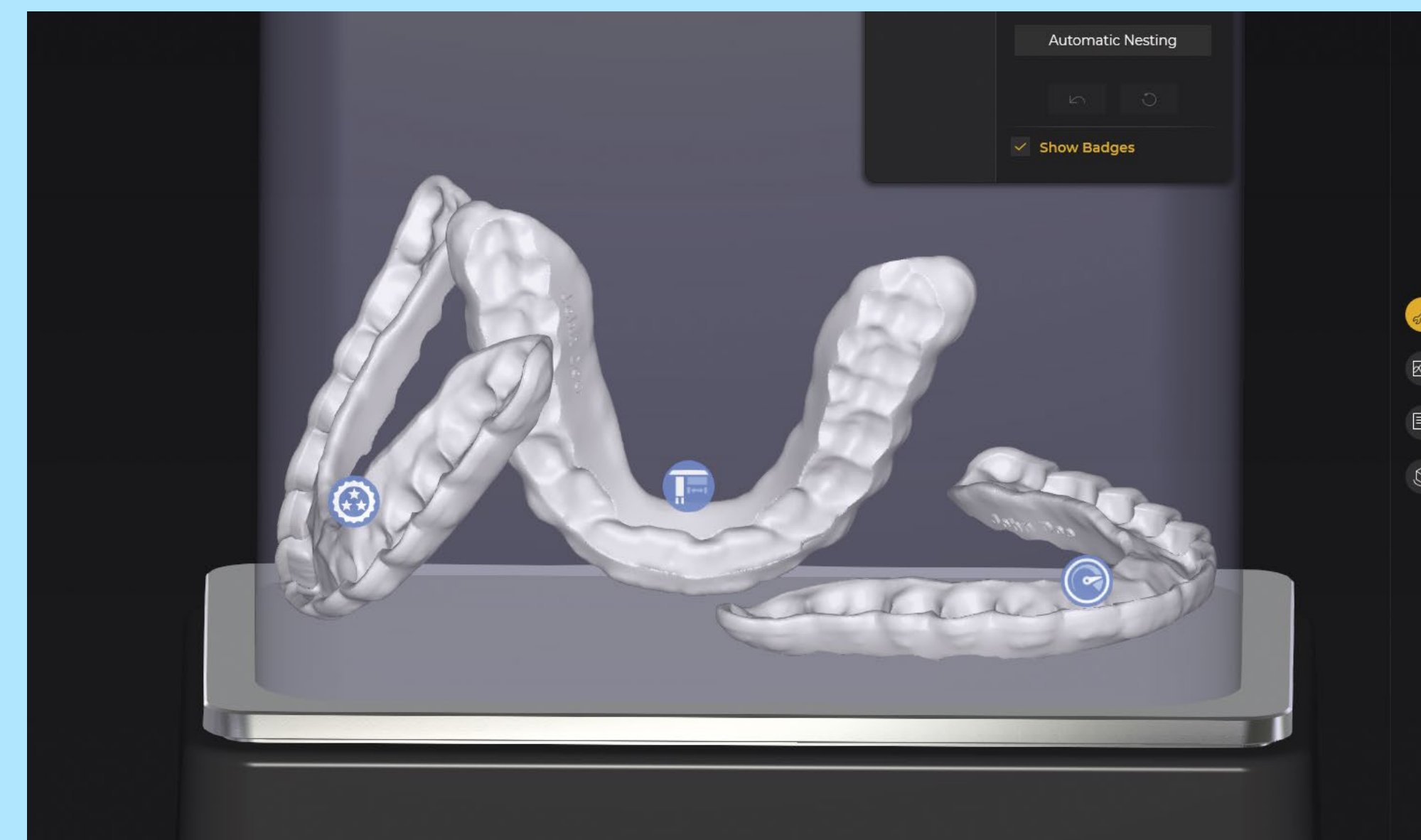


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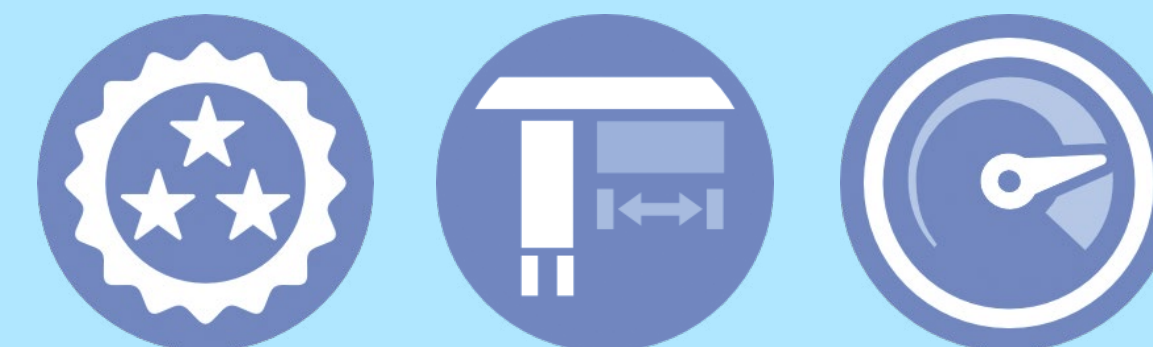
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Automatic orientation strategies



Click on the icons to learn more



The height-optimized orientation shortens printing time by positioning the print objects with less height.





CAM software functions

"Fast Forward" production >

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Object positioning >

Preparation of object and fabrication structures <

Analysis tools >

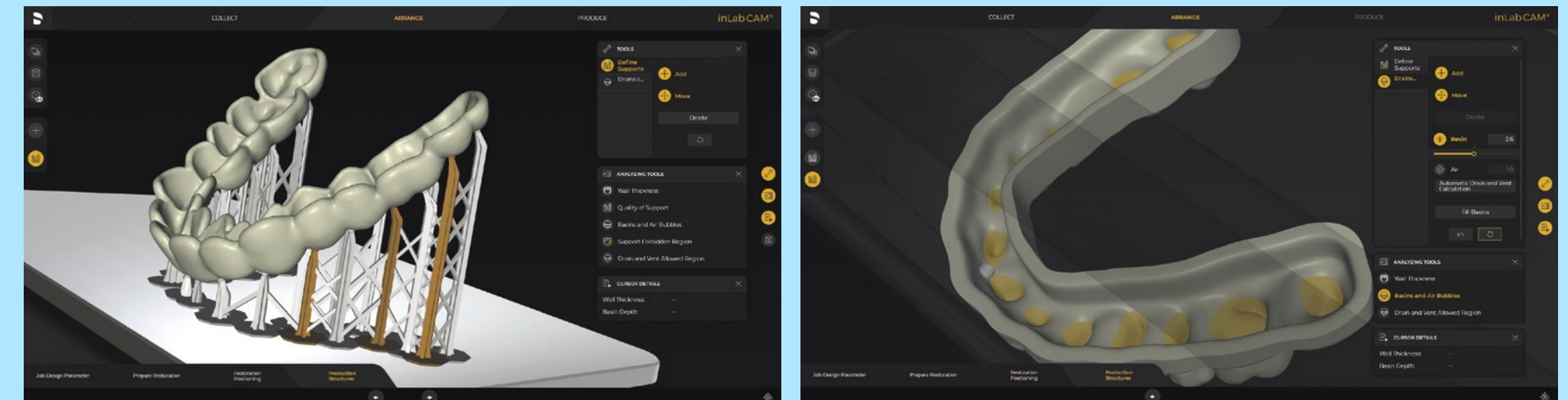
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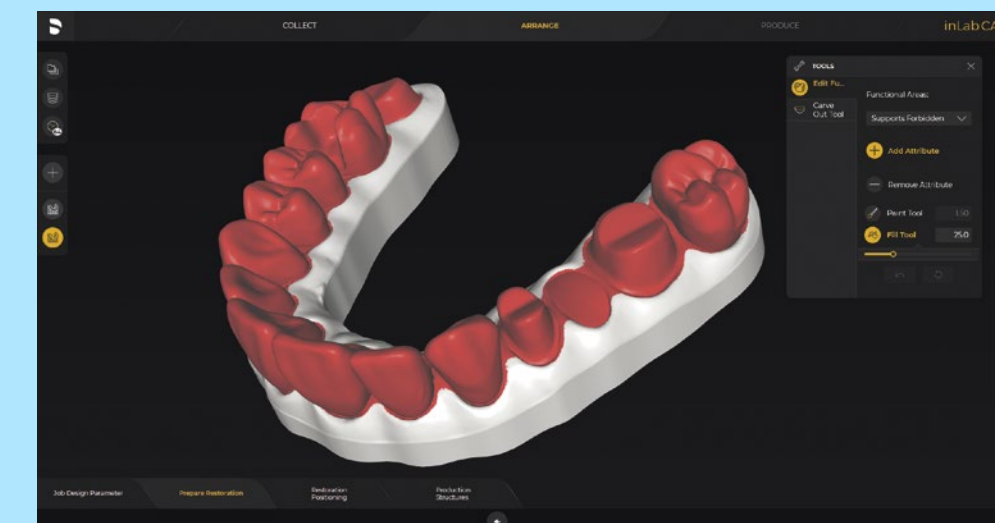


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Director Dental-Labor Teuber,
Darmstadt, Germany

Preparation of object and fabrication structures



Support structures as well as drainage canals and vents are automatically placed by the software but can also be added, removed, and repositioned manually.



Customized adjustments of functional areas during the preparation of STL design data are especially important in order to create an optimal 3D print. For example:

- Targeted addition or removal of drainage canals and vents.
- Marking areas that may not be used for support structures.
- Hollowing solid models.



CAM software functions

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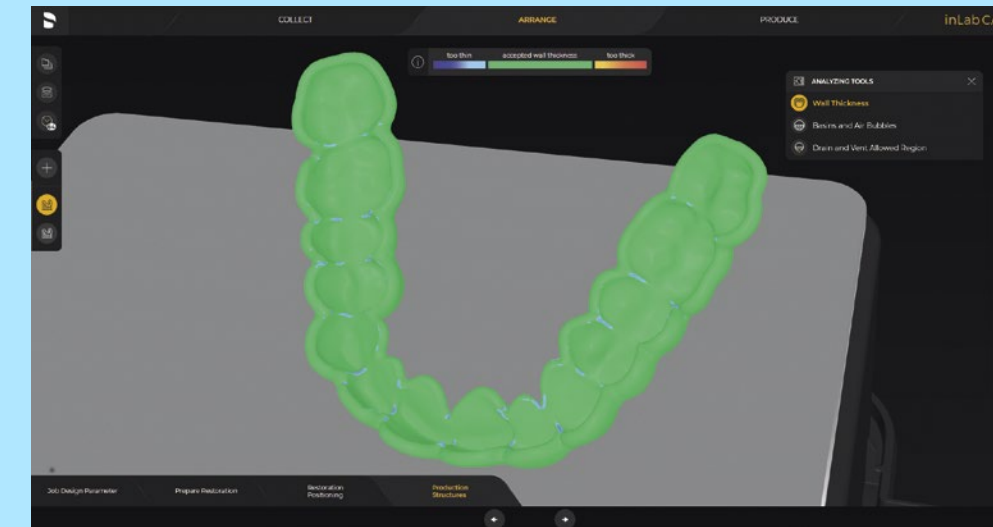
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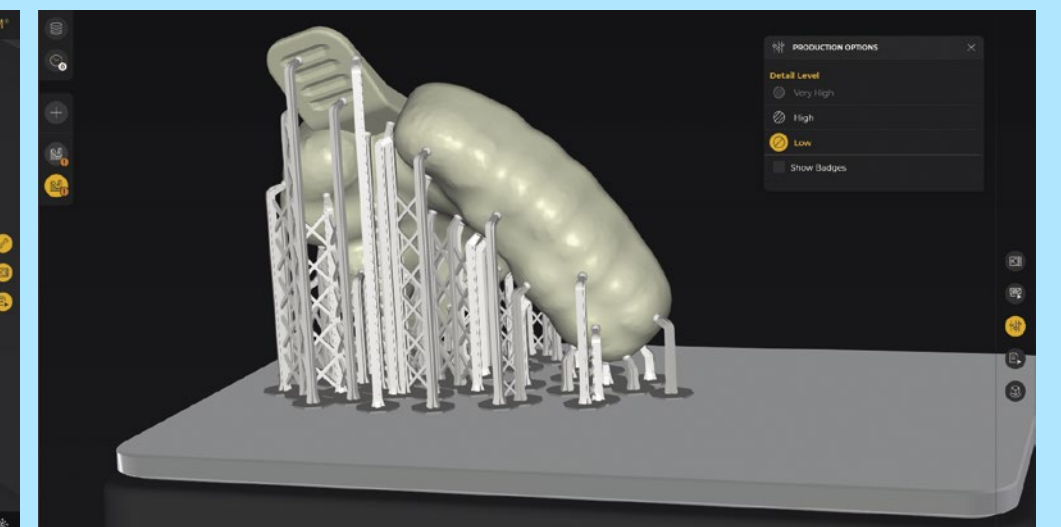
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Analysis tools



For quality enhancement, the software indicates compliance or noncompliance with manufacturer-specified wall strength – a special advantage of the validation process that was performed for each Primeprint material. As such, additional corrections can be made, for example in the case file when cases of noncompliance are detected.

A color-coded system interactively visualizes the support quality.



The software indicates where air may potentially get trapped during the wash process later on or where puddling of resin may occur, which might not be cleaned up. In this case, drainage canals can be positioned virtually, based on the planned print placement, directly in the CAM software without the need to go back to the design phase.

Depending on the application and its desired surface quality, different thicknesses can be defined with the appropriate detail level, thereby optimizing print times.



Process documentation

Click on the arrow to learn more



CAM software functions

"Fast Forward" production



Dental Intelligence from CAD to CAM



Object positioning



Preparation of object and fabrication structures



Analysis tools



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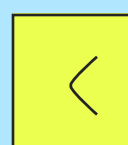
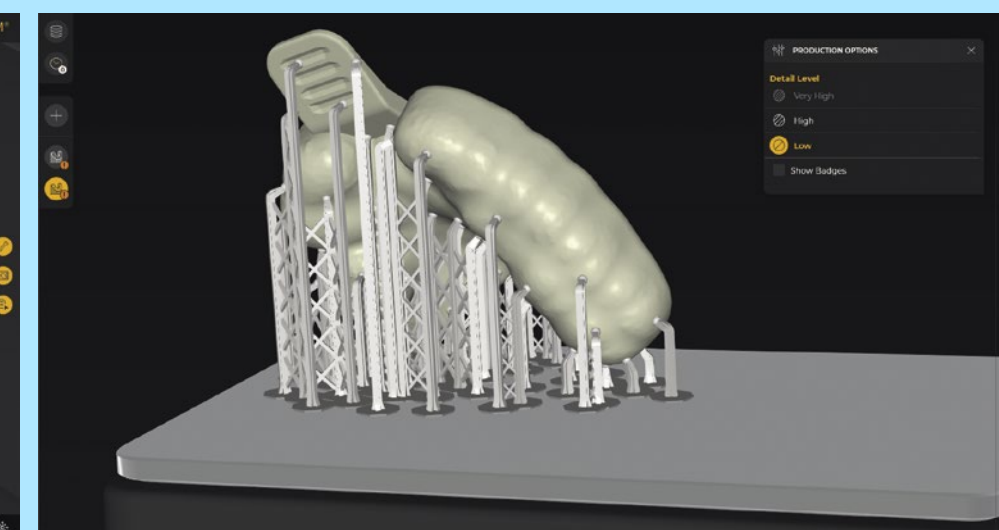
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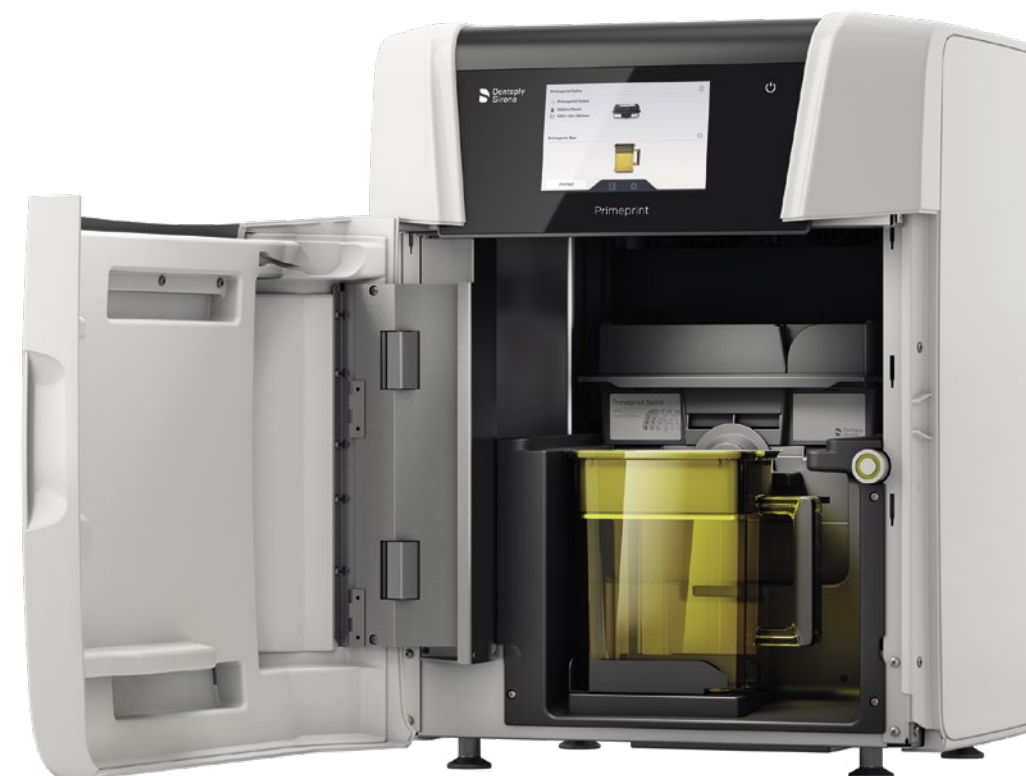
Job Information		Material Unit Information	
Date Printed:	14.03.2022	Material Unit Name:	288
Date Postprocessed:	14.03.2022	Foil Status:	98 %
Initial CAM SW Version:	22.1.0.0	Primeprint PPU Information	
Detail Setting:	Normal	PPU Serial No.:	800201
Resolution:	70 µm	PPU Firmware Version:	0.9.25-1122021
CAM SW Warnings:	Yes	UV-light Calibration Date:	02.08.2021
Material Information		Start Conditions:	32 °C
Manufacturer:	Dentsply Sirona	Ambient Temperature:	1018 mBar
Material Name:	Primeprint Tray	Ambient Air Pressure:	17 %
Material Color:	39 ml	Relative Humidity:	47 %
Amount of Resin:	00000250201	Fluid-Fitness Pre-wash:	99 %
Material LOT No.:	29.02.2024	Fluid-Fitness Final-wash:	96 %
Material Expiration Date:		Status UV-light Source:	96 %

A quality process protocol documents the manufacturing process for each medical device produced with Primeprint Solution. In addition to the simplified distributor declaration of MDR conformity, it can be used as proof of compliance with the process specifications validated by the material manufacturer.



Primeprint – 3D Printer

Before starting the manufacturing step, the Primeprint Material Unit and Primeprint Box together with the building platform are inserted into the 3D printer, then the print process can begin immediately. After completing the print, the 3D printer can immediately be prepared for the next print job. Simply change Primeprint Box and material unit.



Click on a image to learn more

Learn more >



The product display provides supporting information about various functions and statuses:

- Availability of Primeprint Box, material unit and job data
- System settings and routine actions
- Start preheating
- Resin amount per job, remaining resin and color coding

Dr. Meena Barsoum (sponsored),
Dentist, Impressive Smiles,
Arlington Heights, IL, USA

Primeprint Solution has been a very important part of our practice. We deliver a large number of splints and occlusal guards each month, so being able to manufacture them in-house created a solution with a high level of cost-efficiency for our patients. I can trust the post-processing unit to deliver clean and safe medical devices for my patients, without any risk of cross-contamination with other types of resins.





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Dr. Meena Barsoum (sponsored),
Dentist, Impressive Smiles,
Arlington Heights, IL, USA

X

The Primeprint Material Unit consists of the vat and the insertion slot for the material cartridge. The material cartridge clicks into the material unit with a hand movement. Both the vat and the material cartridge are fitted with RFID tags. Once assembled, the software automatically pairs them and identifies them as a unit.





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Learn more >



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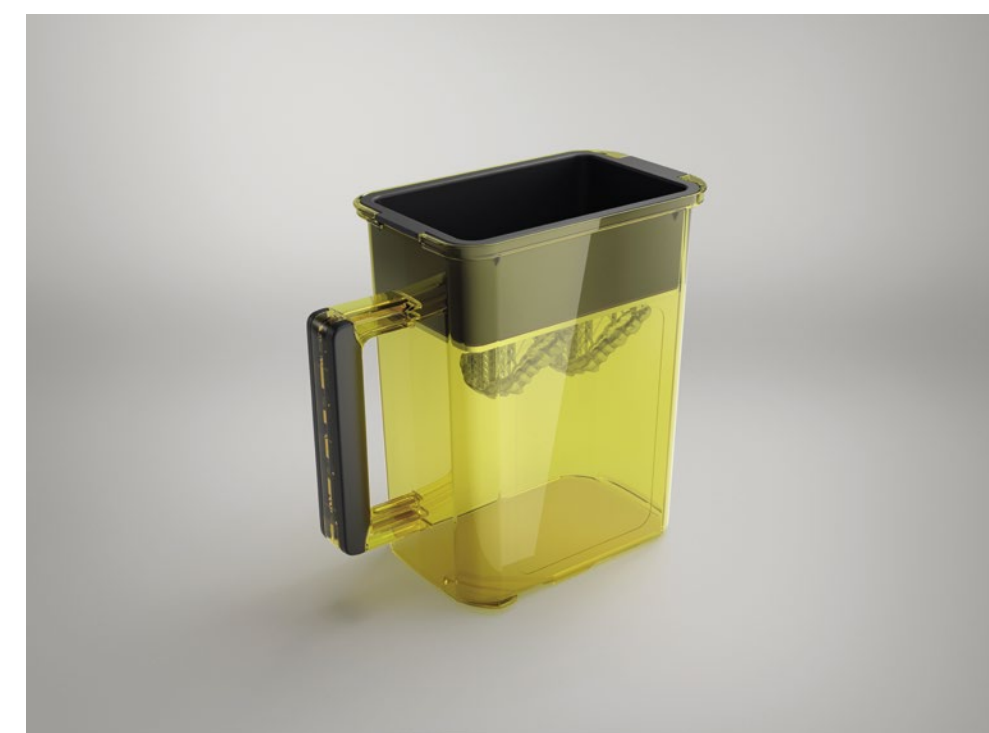
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- System settings and routine actions
- Start preheating
- Resin amount per job, remaining resin and color coding



Dr. Meena Barsoum (sponsored), Zahnarzt, Impressive Smiles, Arlington Heights, IL, USA



The Primeprint Material Unit is protected from UV light. This means that the remaining resin can stay in the material unit until the next use. The closed cartridge prevents skin and device from being exposed to the liquid printing resin.



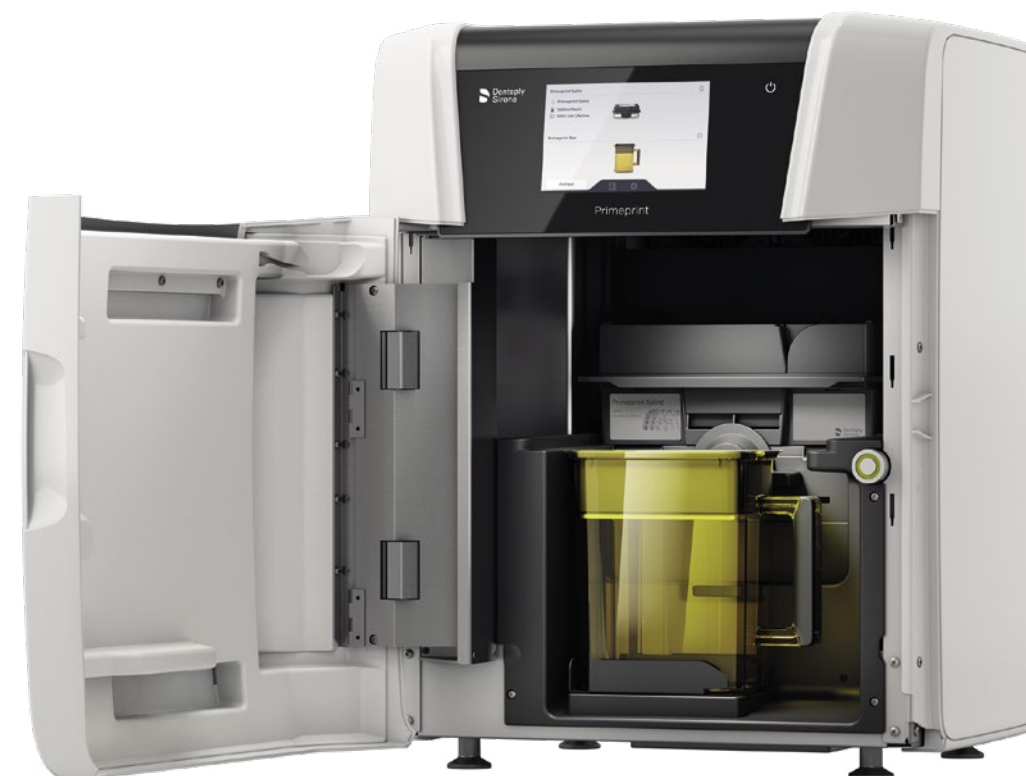


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Dr. Meena Barsoum (sponsored), Dentist, Impressive Smiles, Arlington Heights, IL, USA



X Depending on the type and number of objects intended for a print process, the Primeprint system dispenses the appropriate amount of print resin from the cartridge into the print vat and monitors its use. The software detects the fill level automatically and notifies the user when the material cartridge must be replaced.



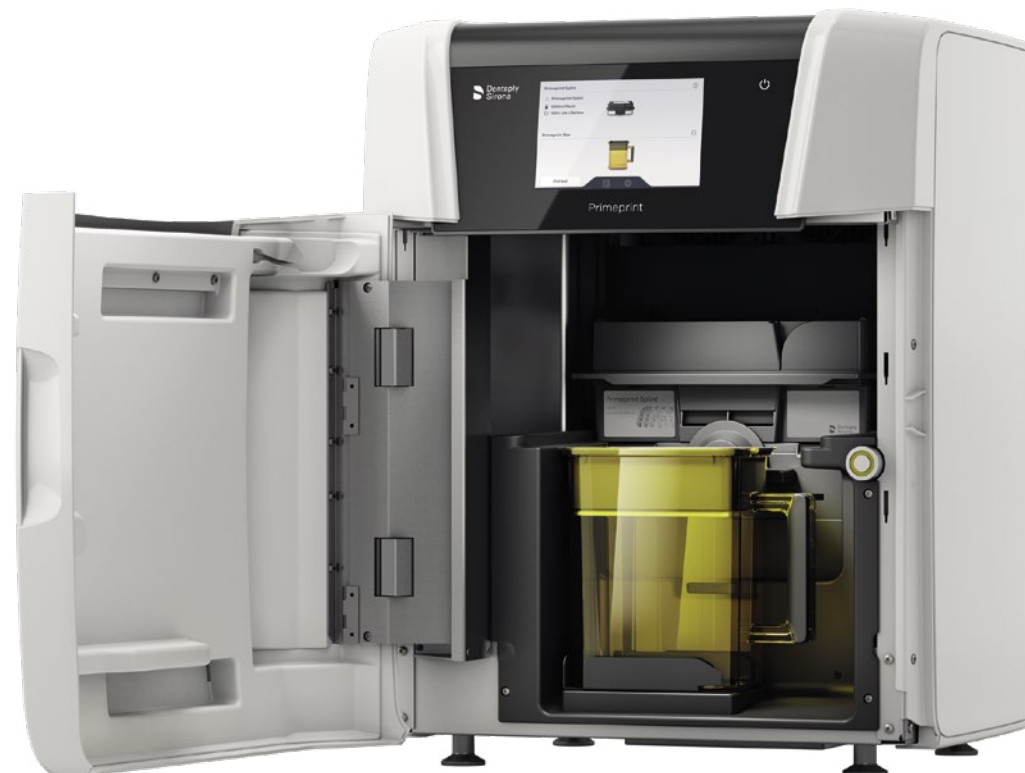


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Dr. Meena Barsoum (sponsored), Dentist, Impressive Smiles, Arlington Heights, IL, USA



The Primeprint Box offers a high degree of cleanliness and safety throughout the print and post-processing steps, thus avoiding user and workspace contamination. The box holds the building platform and transports it with a high level of safety and protected from UV light throughout the complete manufacturing process.





Primeprint – 3D Printer

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Dr. Meena Barsoum (sponsored),
Dentist, Impressive Smiles,
Arlington Heights, IL, USA




X The objects are printed on the building platform, which is securely transported inside the Primeprint Box. The building platform is fitted with an RFID tag, which ensures safe identification of the print job.





Primeprint PPU – Post-Processing Unit

The PPU performs all post-processing steps required for the dental 3D print automatically and without manual interaction – with the option to delegate.



- Pre-washing: First wash cycle
- Final washing: Second wash cycle
- Drying
- Light-curing

Thus, any time-consuming manual post-processing is eliminated. All PPU process steps are protected from UV light and are controlled and monitored by the CAM software. A protocol can be created as PDF.



The process can be started directly via the Primeprint PPU 7" touch screen, and various information can be obtained, e.g.:

- Job availability and status
- Washing container availability and status
- System setting
- Start job and more.



After the print is completed, only the Primeprint Box is removed from the printer and placed into the PPU. The Primeprint Box is sealed and protected from UV light; it does not require any additional contact precautions. Based on the RFID identifier, the individual job is detected and the fully automated post-processing begins with just one click on the screen. The rest is taken care of by the PPU.

All processes are individually developed for each material and are validated by the respective material manufacturer.

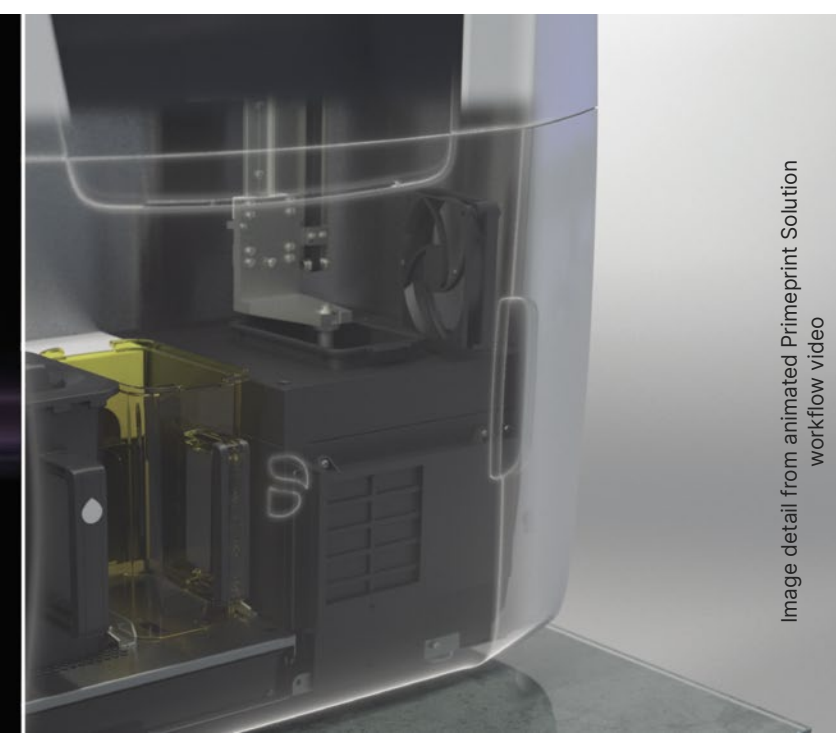
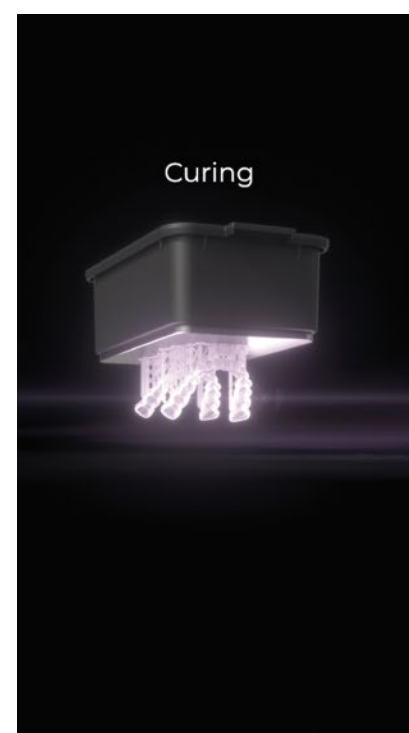


Image detail from animated Primeprint Solution workflow video





Primeprint PPU – Post-Processing Unit

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Click on a image to learn more

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Consecutive pre- and final washing cycles use cleaning agent in the two integrated washing containers to remove liquid print resin residues from the printed objects. The Primeprint Washing Container concept allows each container to be filled with up to 2.5 l of isopropanol, thus enabling the individual storage of several containers.

The washing containers can easily be removed and reinserted and feature automatic fill level monitoring and leak protection. The assignment to pre- and final wash is done automatically. The software tracks the wash cycles of each container via their RFID tags, monitors the corresponding cleaning agent lifetime per washing container, and automatically alerts the user when cleaning agent must be exchanged.



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- and more.

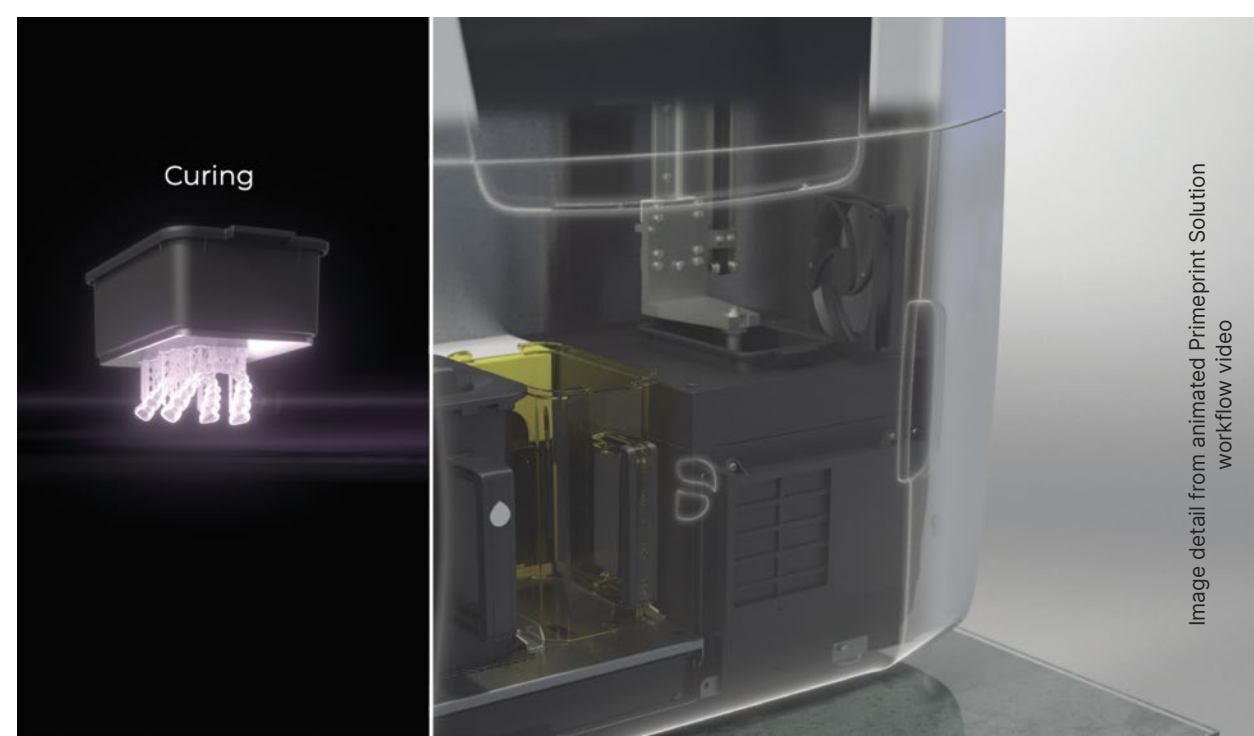


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Click on a image to learn more



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- System setting
- Start job

After the cleaning processes, the PPU dries the printed objects, quickly removing cleaning agent residues without interruption. Isopropanol fumes generated during this process are removed with the integrated activated carbon filter and fan within the PPU. No fumes are released into the environment, so no external ventilation is required.

The light-curing process is automatically initiated inside the integrated light-curing chamber of the PPU – a highly productive post-curing in a protective gas atmosphere and with active nitrogen management.





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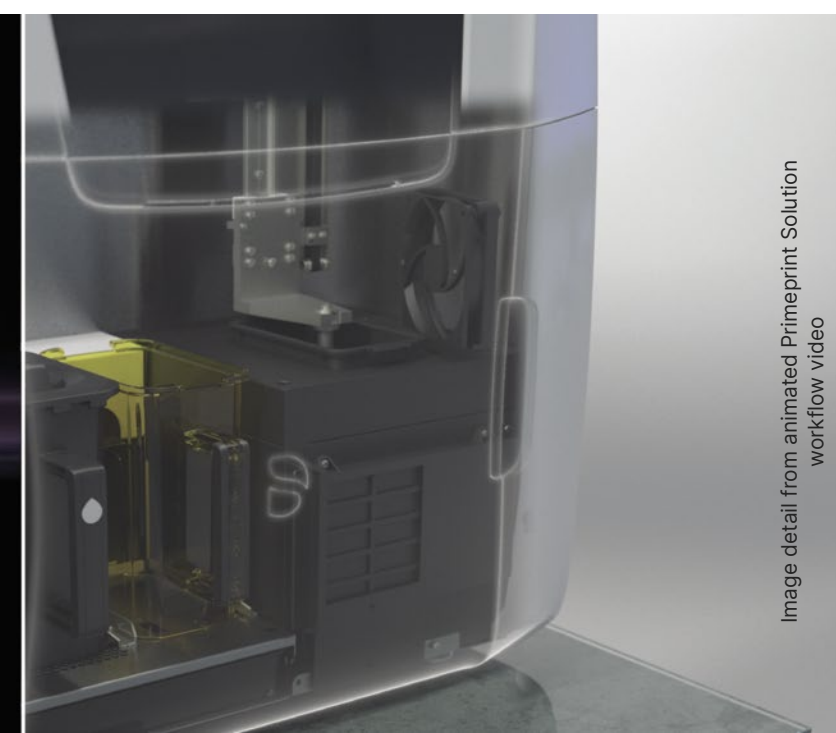
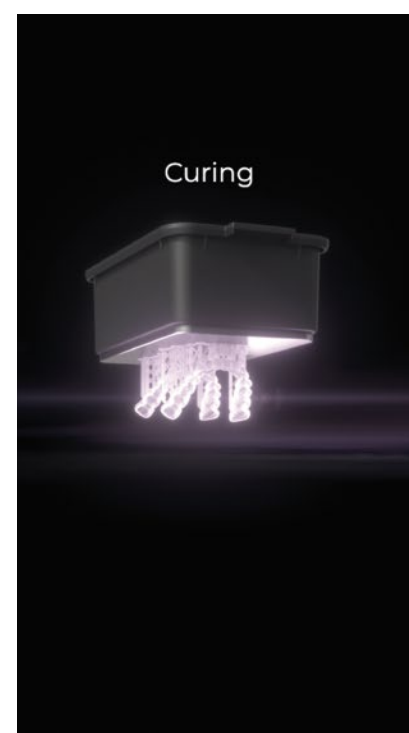


Image detail from animated Primeprint Solution workflow video

X The completed printed objects are attached to the building platform with the support structures and can be removed quickly and easily with just a few moves.

The Primeprint Solution Platform Holder is specially designed to make removal even easier. It anchors the building platform in a non-slip manner and catches detached print parts.





Primeprint Solution – Material concept

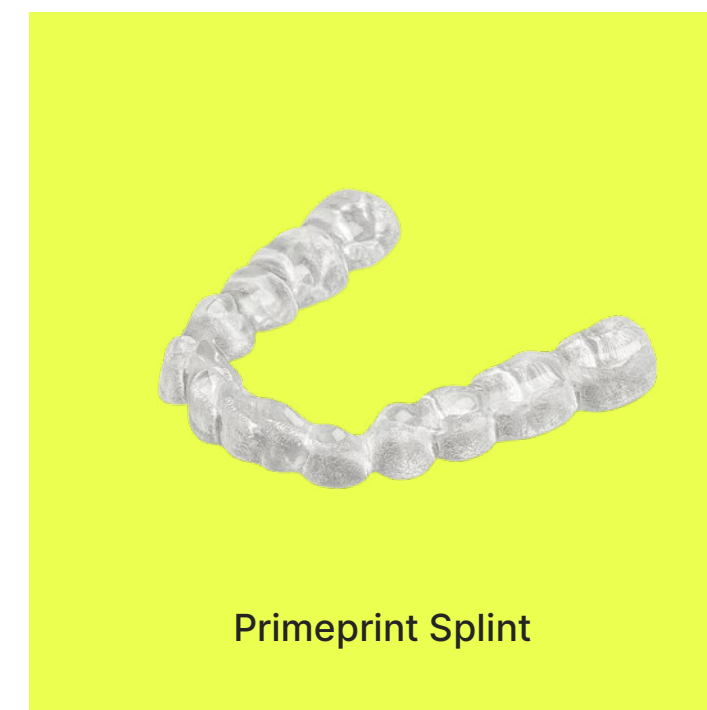
Validated materials and RFID-supported, automated material management support quality, process, and documentation security. All material parameters were optimized to offer a high level of process safety for each application.

The Primeprint material concept offers user-friendly support with its color-coded material cartridge system. Each print material type is associated with a different color, which is mirrored in the CAM software for quick orientation, for correct material selection, and easily identifiable storage.



Primeprint Material Unit with inserted material cartridge

Materials



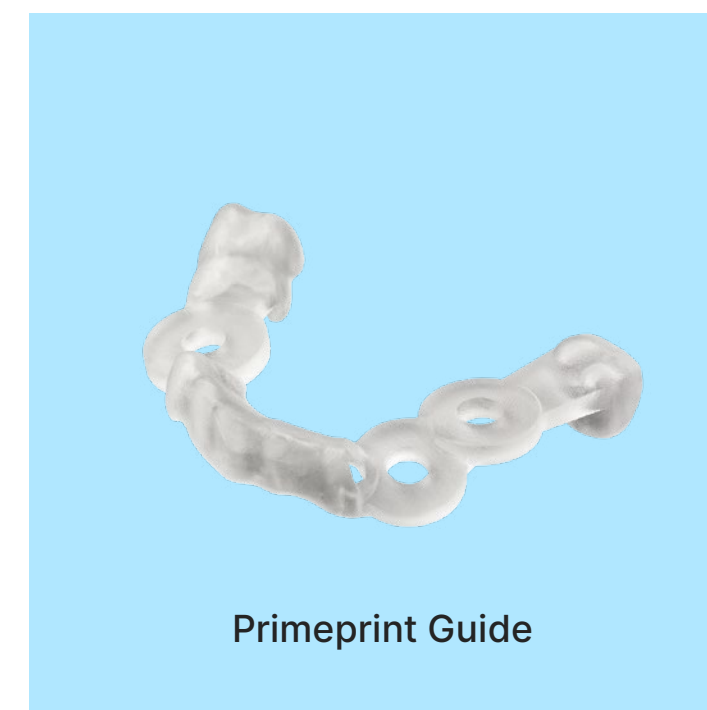
Primeprint Splint

Primeprint Splint

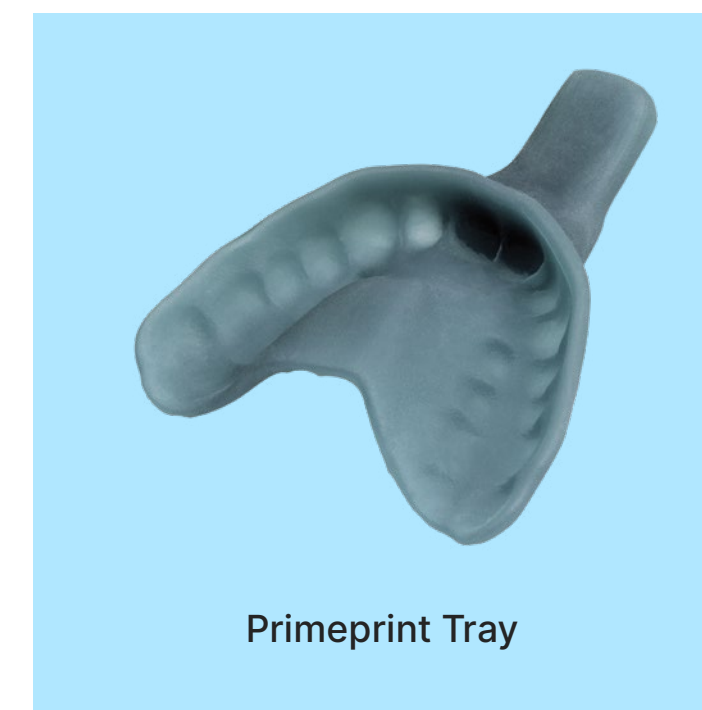
Application
Hard splints

Characteristics

- High mechanical flexural strength and stability
- High initial final hardness
- Biocompatible



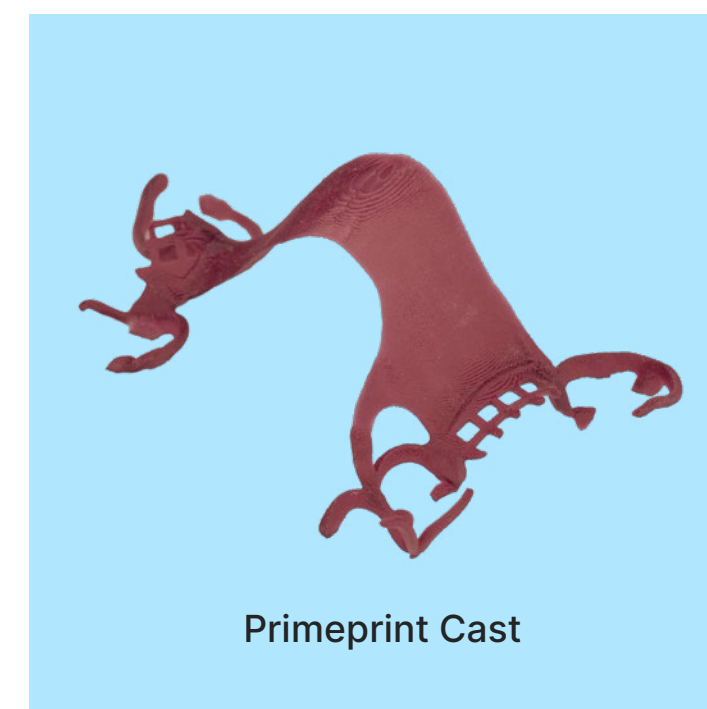
Primeprint Guide



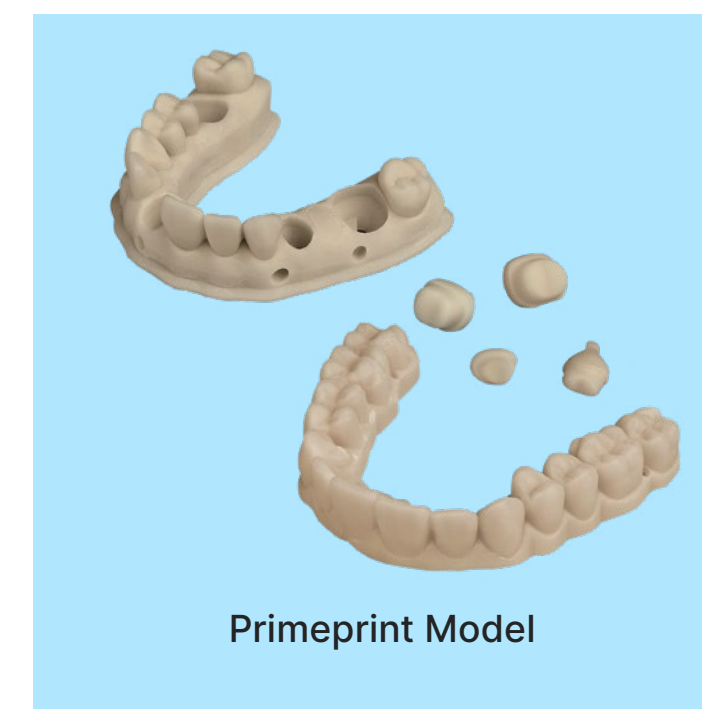
Primeprint Tray



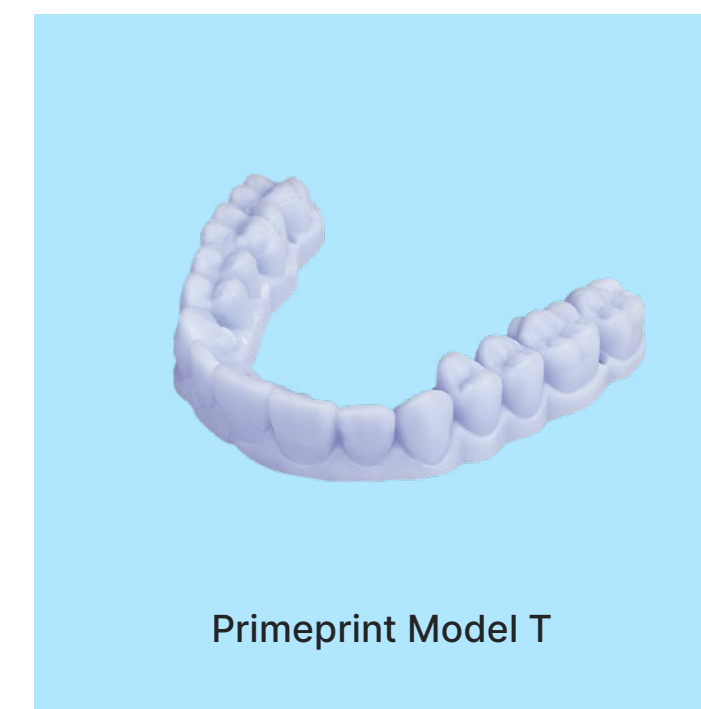
Primeprint Temp



Primeprint Cast



Primeprint Model



Primeprint Model T



Primeprint Solution – Material concept

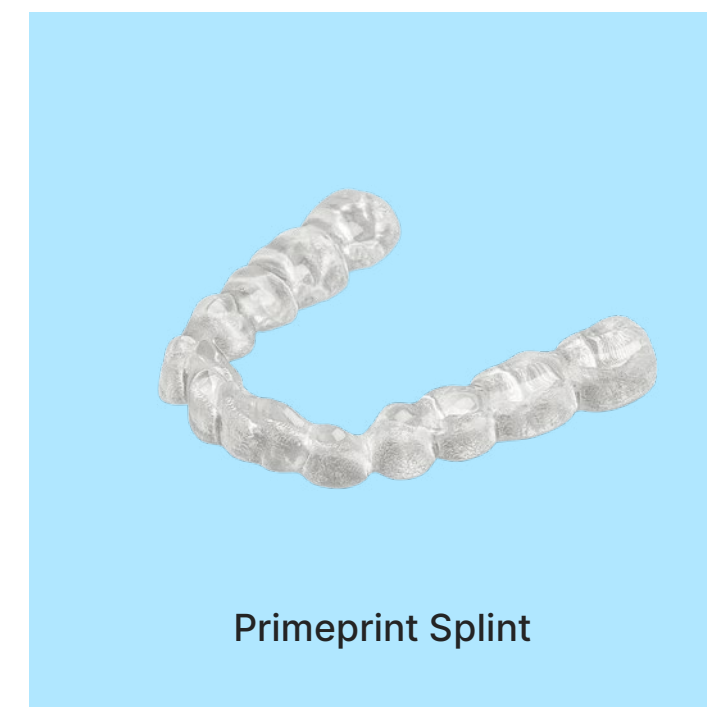
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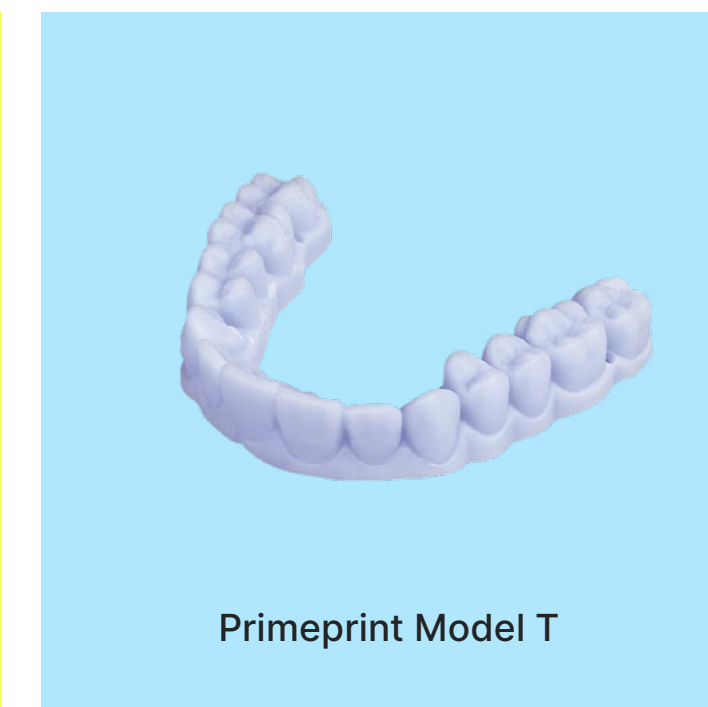
Materials



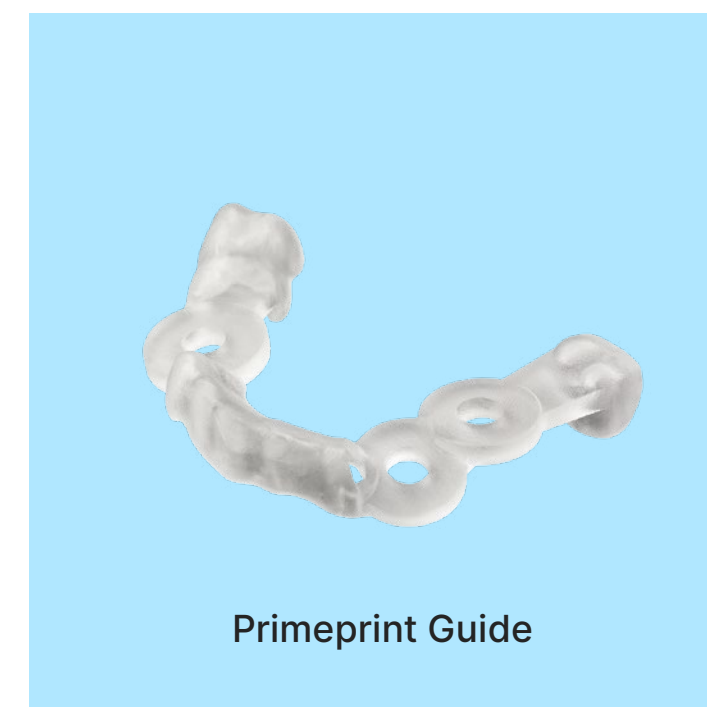
Primeprint Splint



Primeprint Model



Primeprint Model T



Primeprint Guide

Primeprint Model

Application

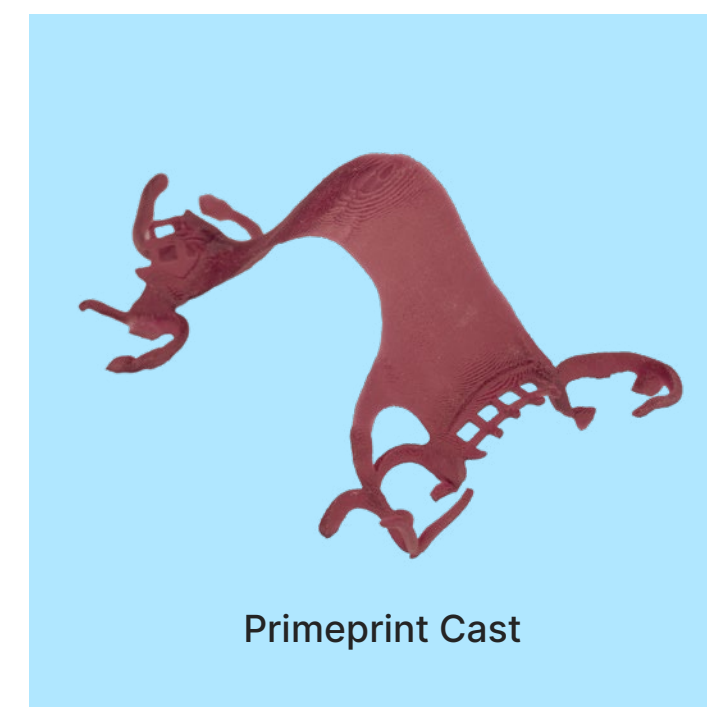
- Working models
- Situation models
- Control models

Characteristics

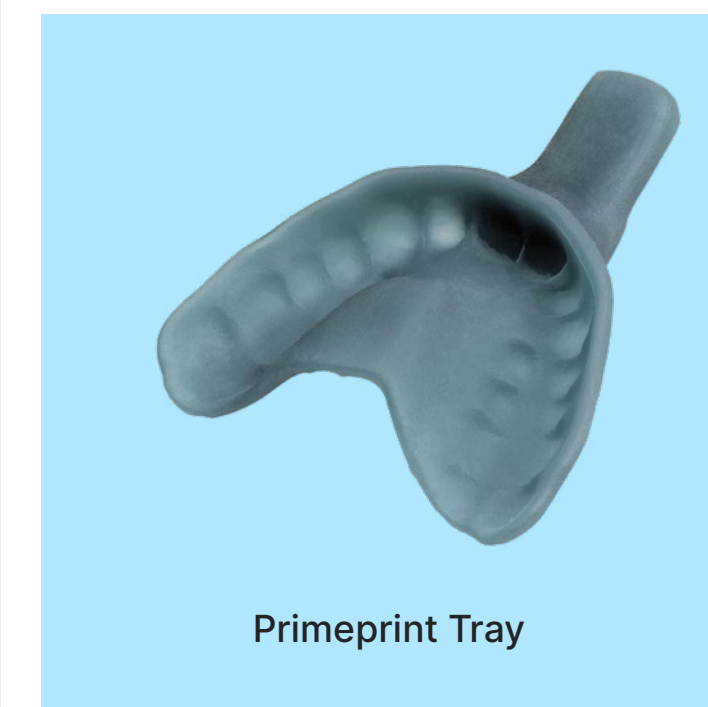
- High detail reproduction
- High surface hardness and dimensional stability
- Plaster-like appearance and haptic
- Very good construction precision



Primeprint Temp



Primeprint Cast



Primeprint Tray



Primeprint Solution – Material concept

Validated materials and RFID-supported, automated material management support quality, process, and documentation security. All material parameters were optimized to offer a high level of process safety for each application.

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Primeprint Material Unit with inserted material cartridge

Materials

Primeprint Model T

Application

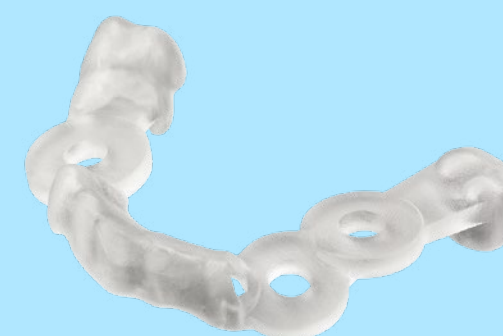
Thermoforming models

Characteristics

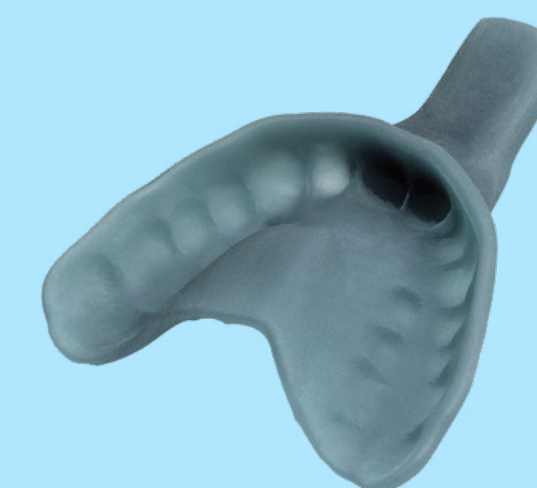
- High temperature resistance to process-related temperature stress
- High edge strength



Primeprint Model T



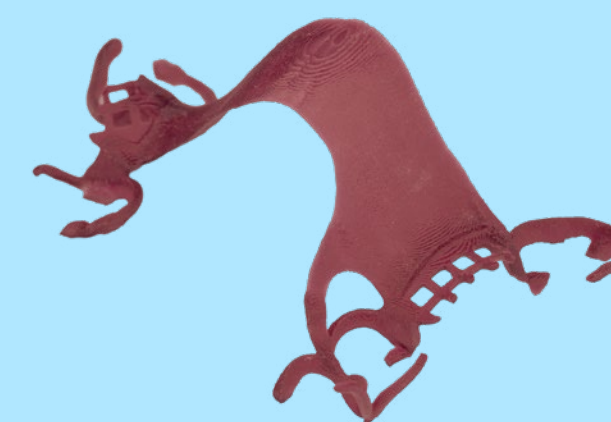
Primeprint Guide



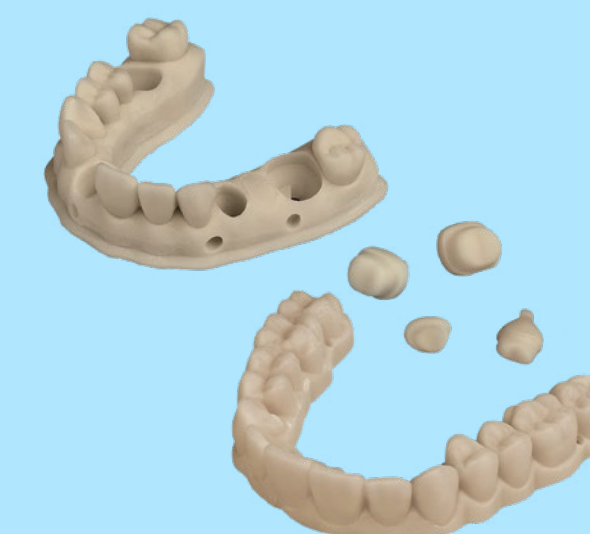
Primeprint Tray



Primeprint Temp



Primeprint Cast



Primeprint Model



Primeprint Splint



Primeprint Solution – Material concept

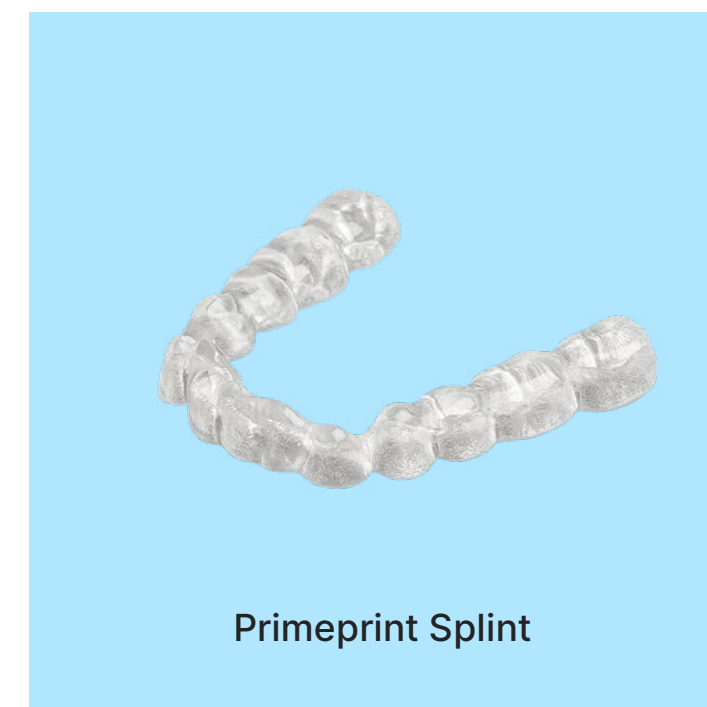
Validated materials and RFID-supported, automated material management support quality, process, and documentation security. All material parameters were optimized to offer a high level of process safety for each application.

The Primeprint material concept offers user-friendly support with its color-coded material cartridge system. Each print material type is associated with a different color, which is mirrored in the CAM software for quick orientation, for correct material selection, and easily identifiable storage.

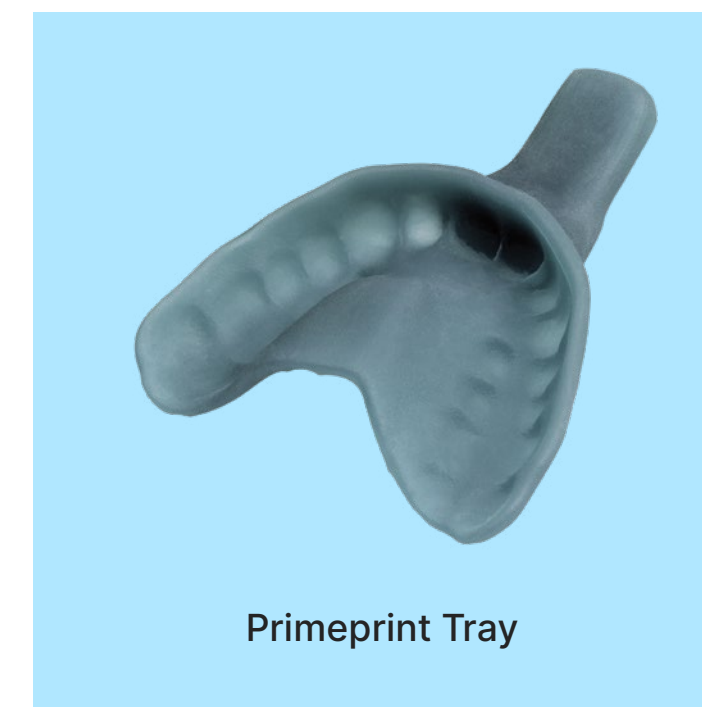


Primeprint Material Unit with inserted material cartridge

Materials



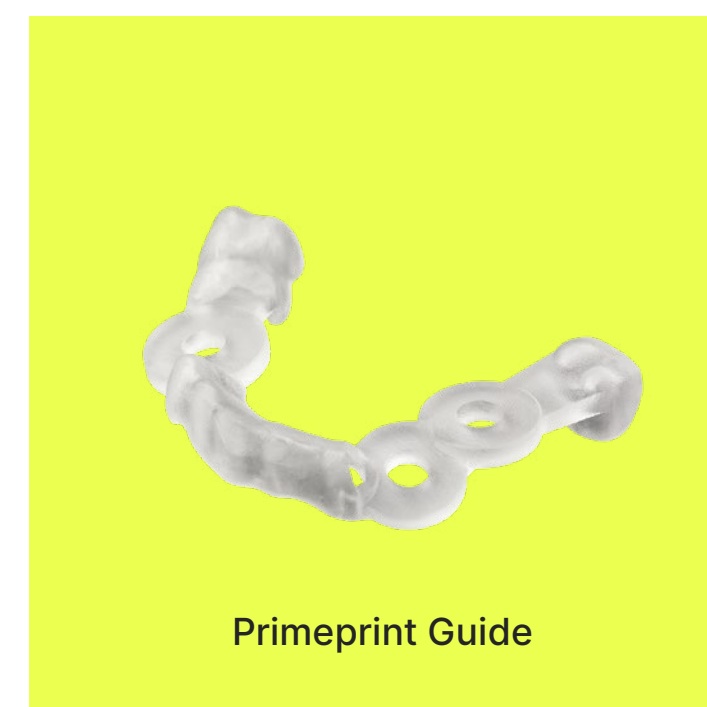
Primeprint Splint



Primeprint Tray



Primeprint Temp

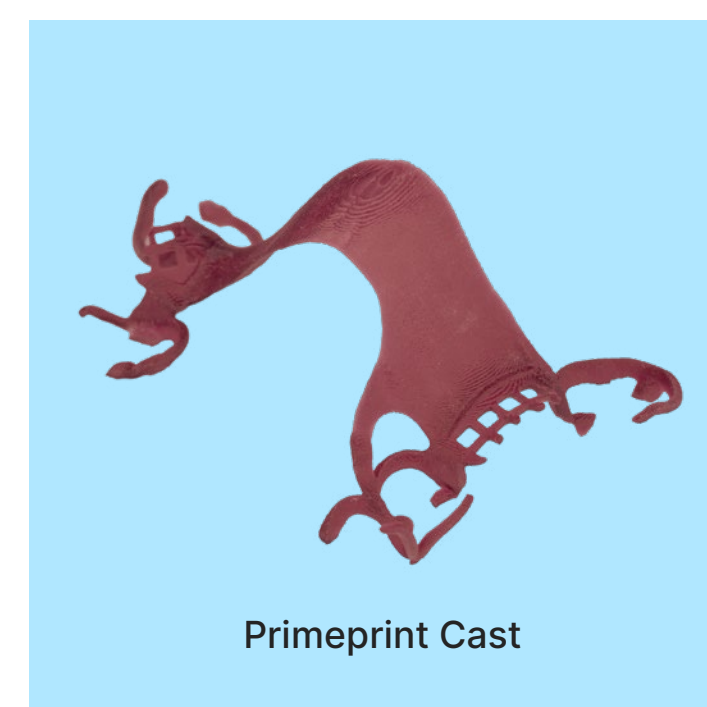


Primeprint Guide

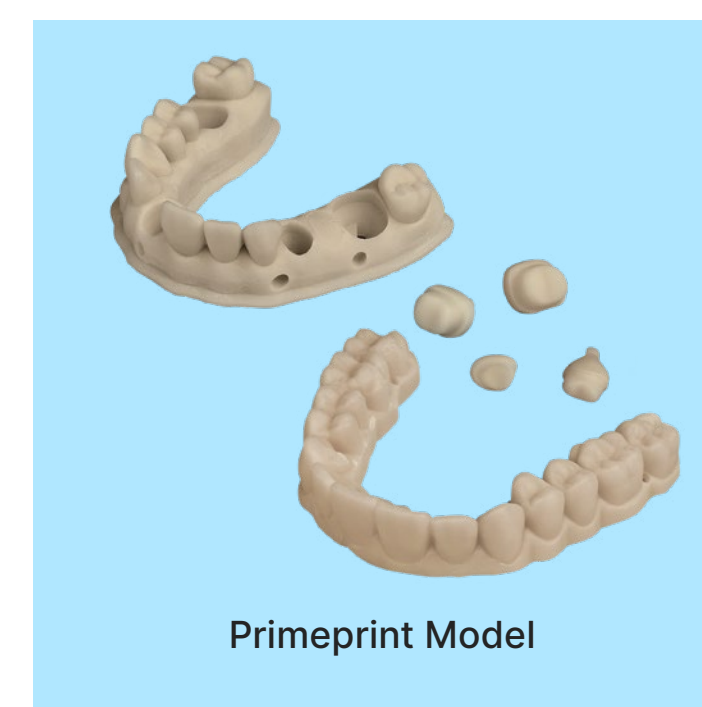
Primeprint Guide

Application
Surgical guide

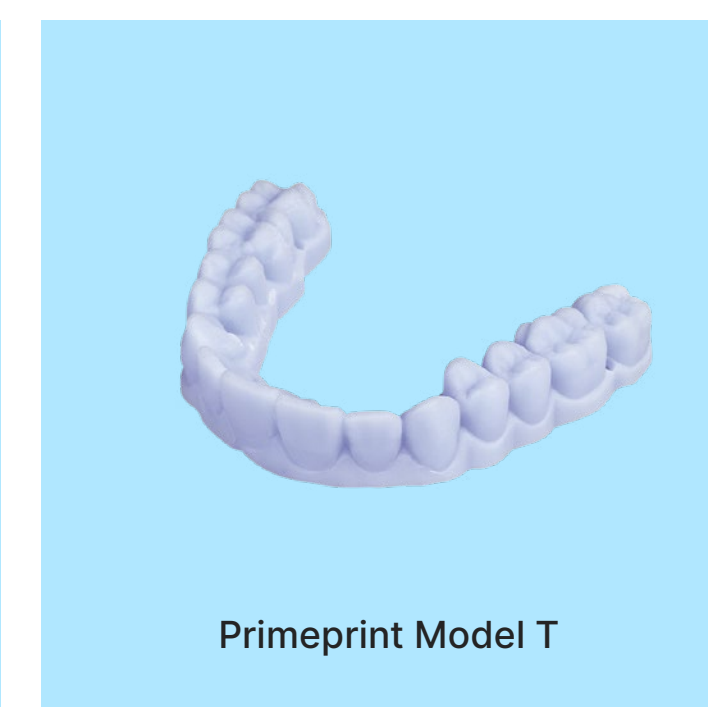
- Characteristics**
- Very high mechanical stability & construction precision
 - High printing speed
 - Sterilizable
 - Biocompatible



Primeprint Cast



Primeprint Model



Primeprint Model T



Primeprint Solution – Material concept

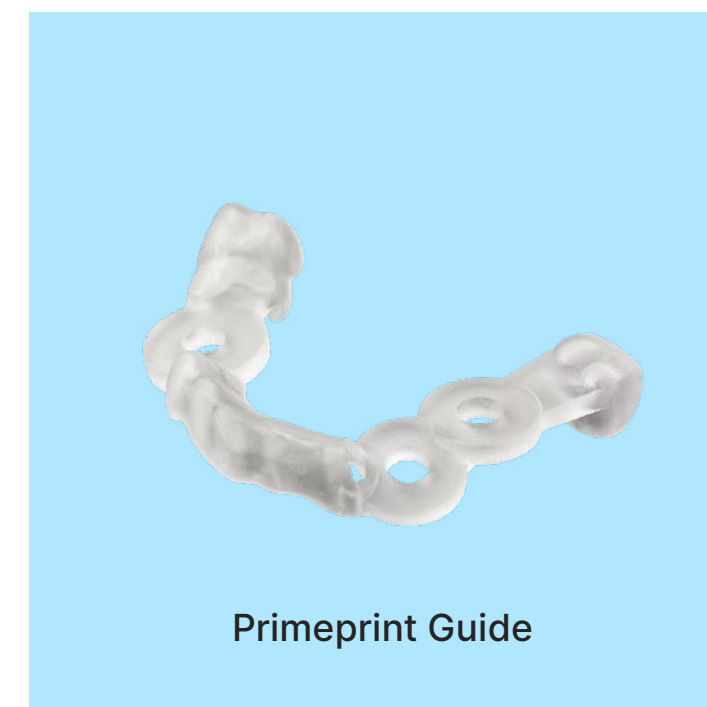
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Primeprint Material Unit with inserted material cartridge

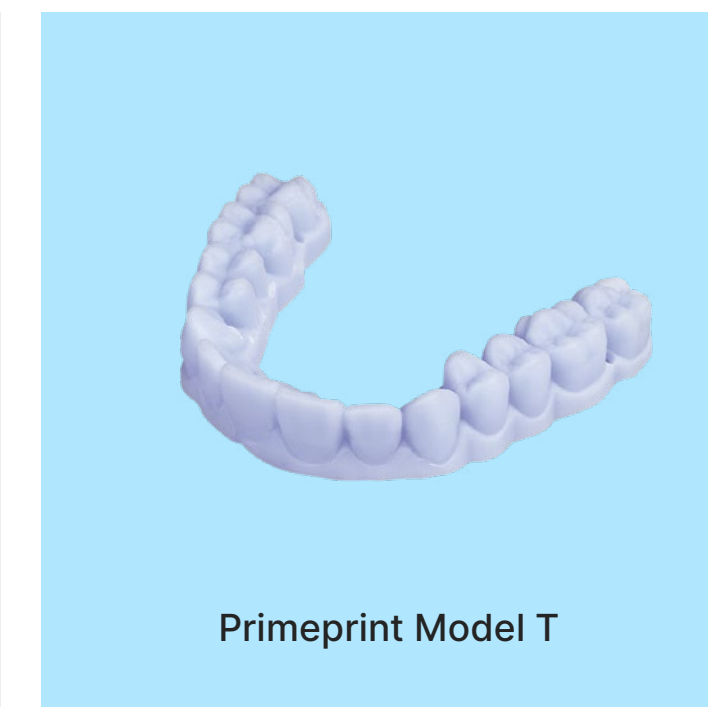
Materials



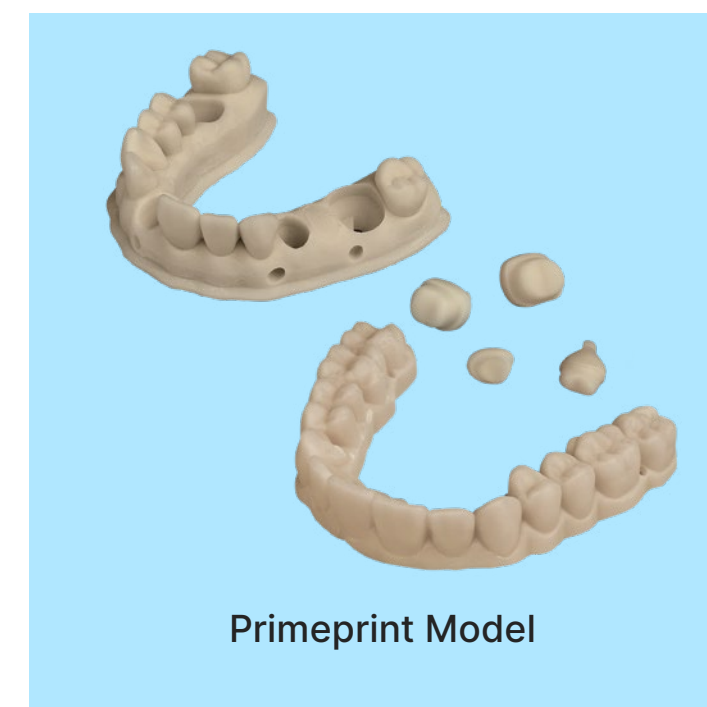
Primeprint Guide

Primeprint Tray

Application
Individual impression trays



Primeprint Model T



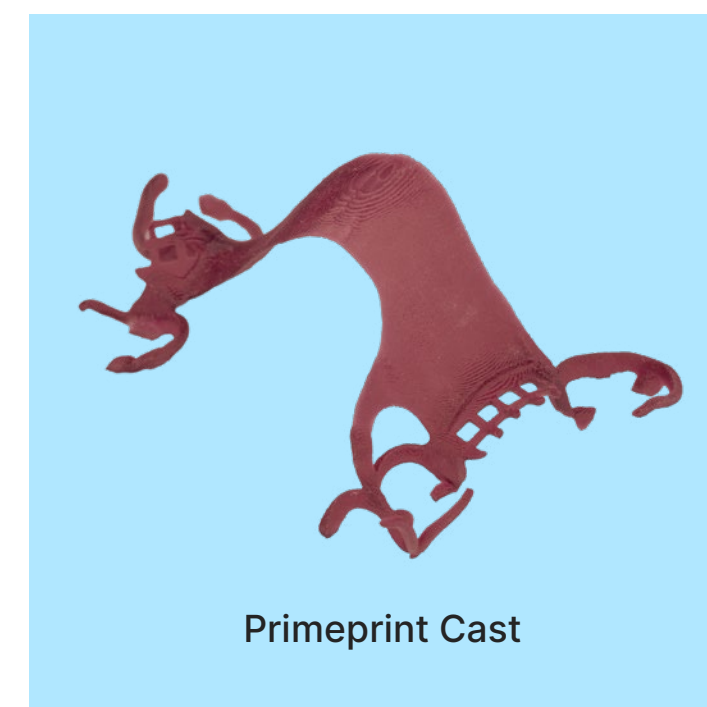
Primeprint Model



Primeprint Tray



Primeprint Temp



Primeprint Cast

Characteristics

- High dimensional stability, torsional rigidity
- High construction speed
- Compatible with all impression materials
- Biocompatible



Primeprint Splint



Primeprint Solution – Material concept

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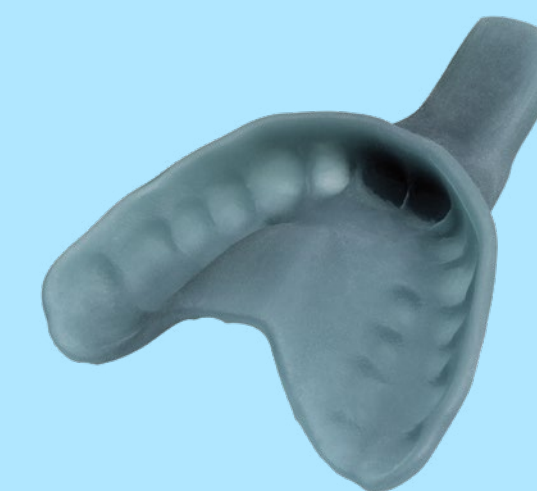


Primeprint Material Unit with inserted material cartridge

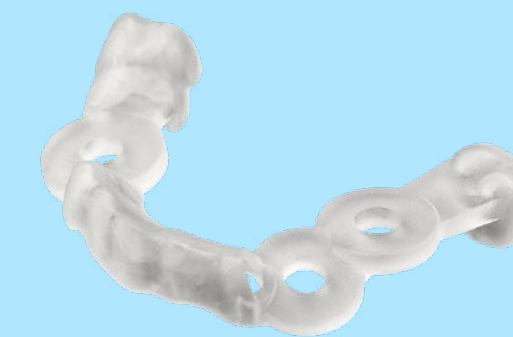
Materials



Primeprint Splint



Primeprint Tray



Primeprint Guide

Primeprint Temp

Application

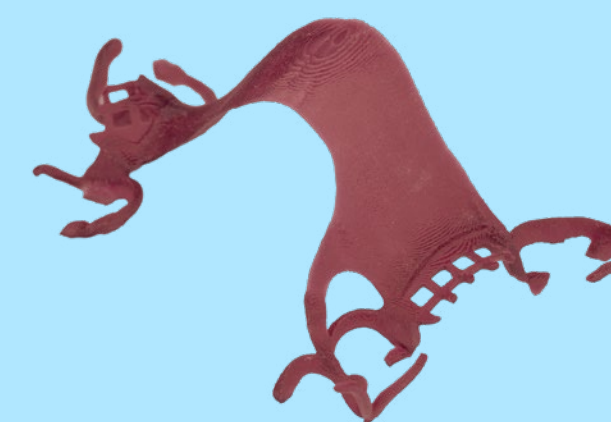
Temporary anterior and posterior tooth restorations

Characteristics

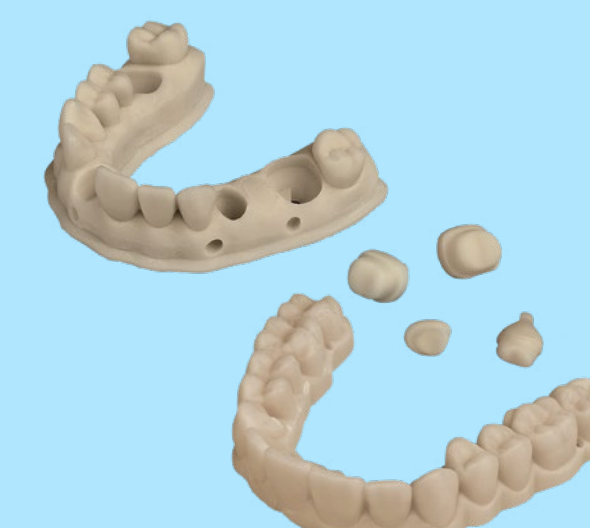
- Residue-free burning out
- High dimensional stability after printing
- Precise and distortion-free results, even for delicate constructions



Primeprint Temp



Primeprint Cast



Primeprint Model



Primeprint Model T



Primeprint Solution – Material concept

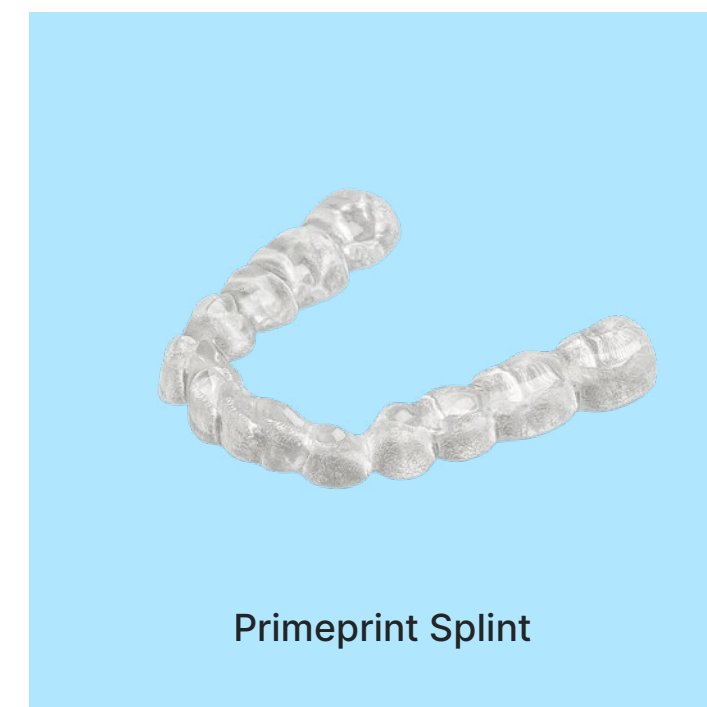
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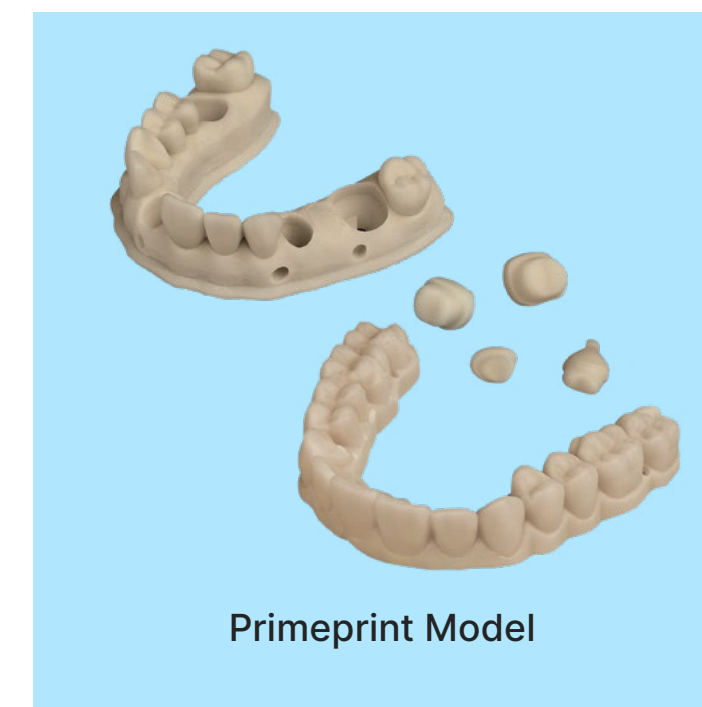


Primeprint Material Unit with inserted material cartridge

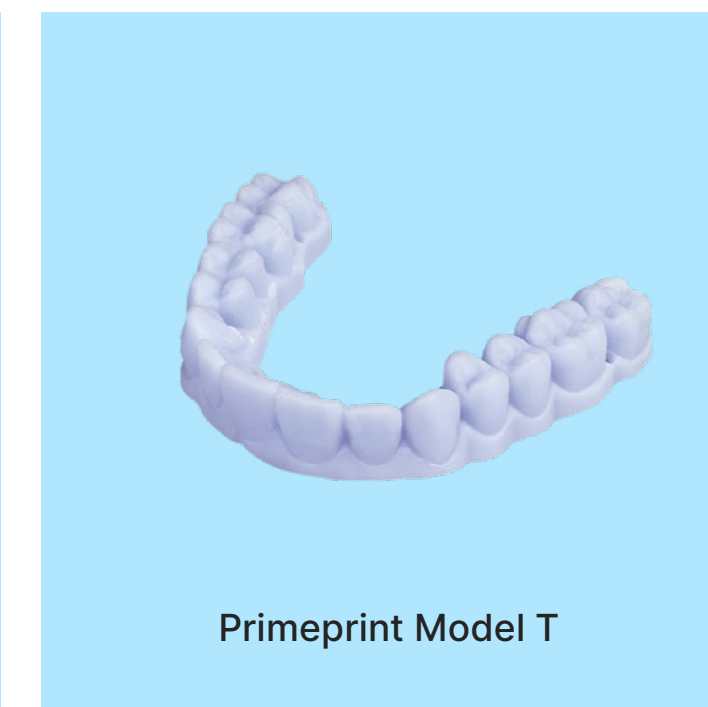
Materials



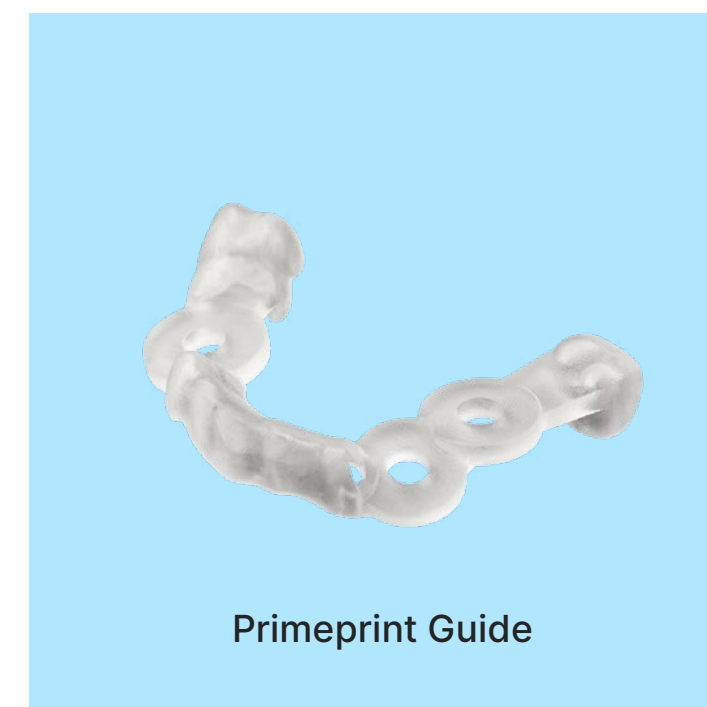
Primeprint Splint



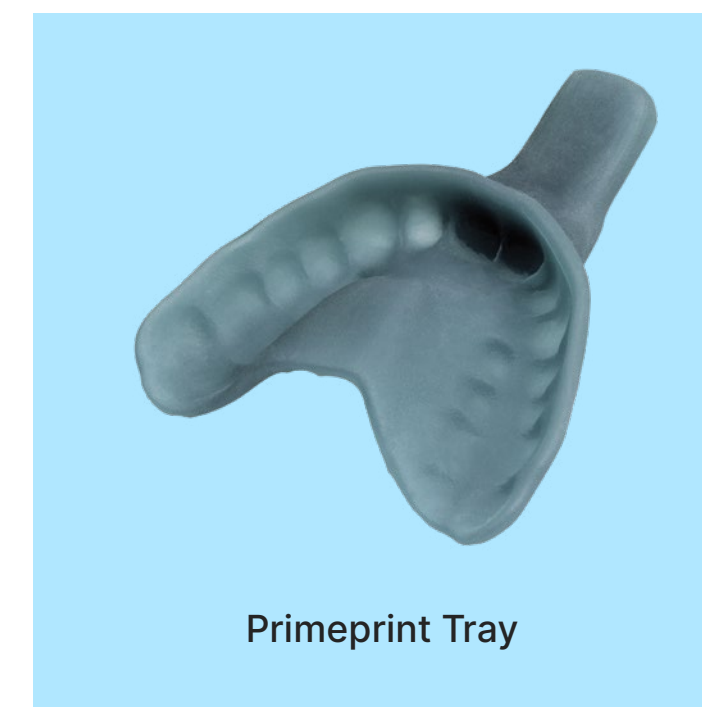
Primeprint Model



Primeprint Model T



Primeprint Guide



Primeprint Tray



Primeprint Temp



Primeprint Cast

Primeprint Cast

Application

Dental casting objects for precision casting

Characteristics

- Residue-free burning out
- High dimensional stability after printing
- Precise and distortion-free results, even for delicate constructions



Primeprint Solution – In the practice

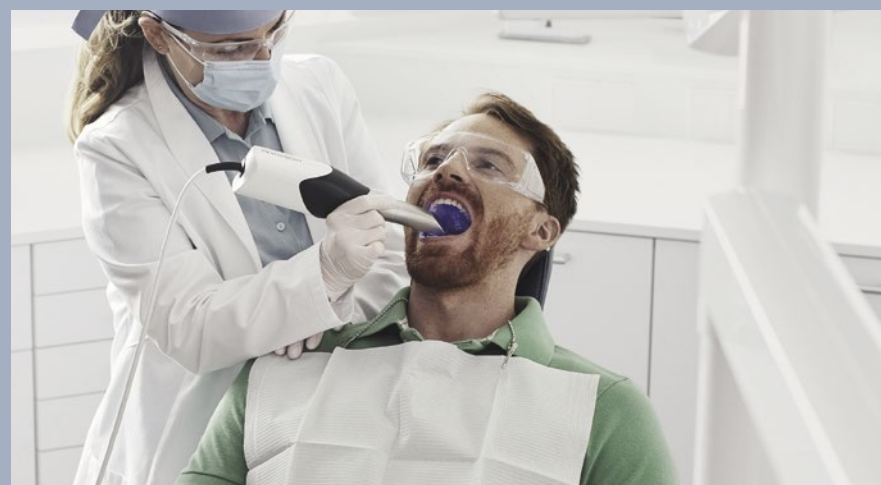
Primeprint Solution enables dentists to improve patient experience and offer additional procedures, thereby expanding their practice. It integrates easily into existing digital workflows and seamlessly into the entire DS Digital Universe for excellence in dental practices.

[Learn more >](#)



Click on the arrow to learn more

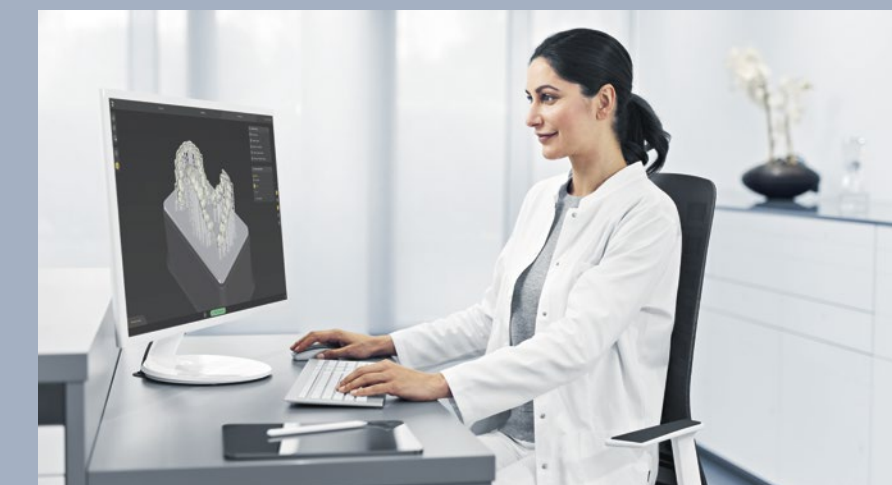
The Primeprint Solution workflow in the practice:



1 Intraoral scanning



2 Application design



3 Preparation of print job



4 3D printing and post-processing



Click here to go to the workflow of a surgical guide – just scan the QR code!



Dr. Verena Freier (sponsored),
Dentist, Zahnmedizin Bad Soden,
Germany

As a newcomer in dental 3D printing, I am not only interested in a broad range of indications, but also in easy handling and smooth integration into our practice processes. And this has been achieved particularly well with Primeprint Solution. In my opinion, the software is very user-friendly and can be integrated very well into my digital workflow. The printer and post-processing unit offer a high level of user-friendliness and clean 3D printing thanks to no contact with printing resins. All this means enormous time savings and safety for us in our day-to-day practice. And I can delegate the 3D printing tasks to my practice team with a good feeling.





Primeprint Solution – In the practice

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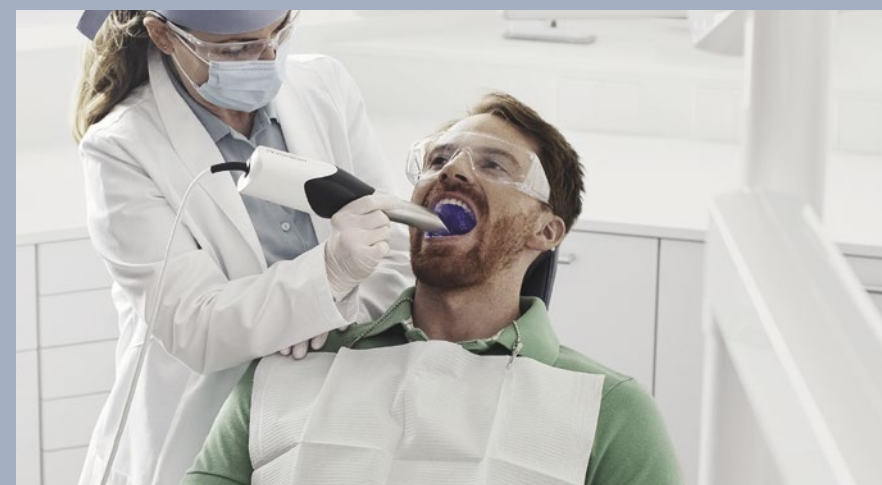
[Learn more >](#)



Click on the arrow to learn more



The Primeprint Solution workflow in the practice:



1 Intraoral scanning

Primescan enables high precision digital impressions with a patented scanning technology. Impression taking with Primescan is easy and intuitive. Because Primescan offers freedom of choice in the design of workflows, dentists can arrange their workflows according to their preferences.



2 Application design

The design can either be created with the CEREC Software or the dentist uses DS Core Create to get access to high-quality custom designs created by expert lab technicians. The designs can easily be requested via DS Core without having to operate a design software.



3 Preparation of print job

After automatic job preparation in the CAM software, the 3D printing process can begin immediately.



4 3D printing and post-processing

Primeprint Solution reduces handling times and manual work, allows for full delegation, and maximizes productivity. The use of regulated parameters help to ensure high quality of printed appliances for excellent treatment outcomes. The Primeprint Box enables convenient and easy material handling without direct contact with resins.

Primeprint printer and Primeprint PPU are two closed desktop units, which easily integrate into the dental practice. A particular advantage is that no fume hood is required.



5 Finalization

The platform holder offers convenient support for the fast removal of printed objects from the building platform, before the support structures are removed and the applications can be prepared for further employment.

Click here to go to the workflow of a surgical guide – just scan the QR code!



Click on the arrow to learn more



Dr. Verena Freier (sponsored),
Dentist, Zahnmedizin Bad Soden,
Germany



Primeprint Solution – In the practice

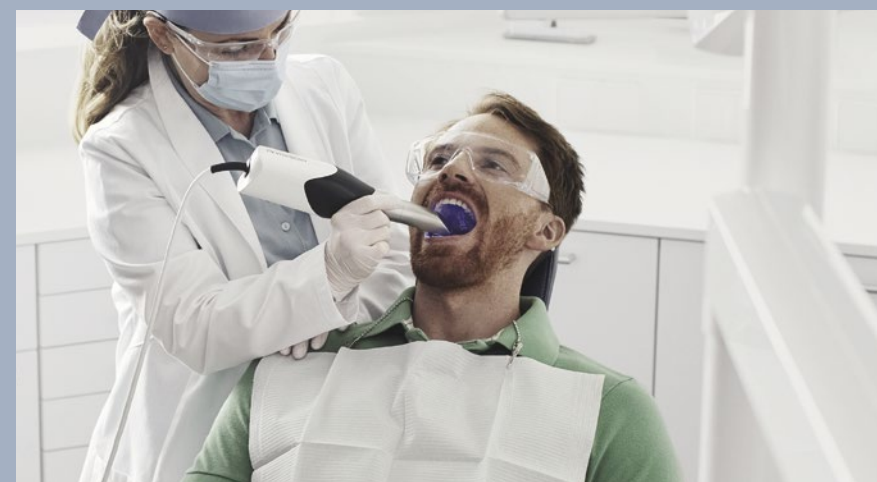
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[Learn more >](#)

Click on the arrow to learn more



The Primeprint Solution workflow in the practice:



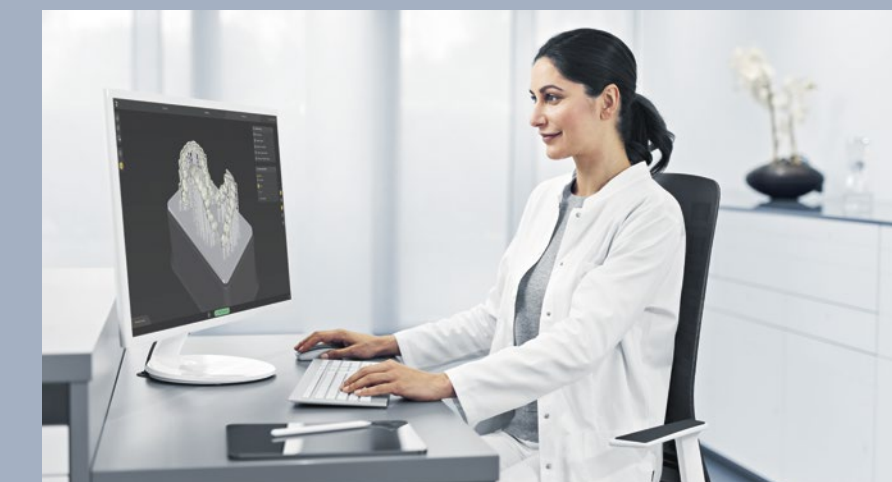
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Click on the arrow to learn more



Dr. Verena Freier (sponsored),
Dentist, Zahnmedizin Bad Soden,
Germany



Primeprint Solution – In the dental lab

Primeprint Solution expands the digital manufacturing options in the dental lab and can be integrated easily into existing digital workflow.

Learn more >

Click on the arrow to learn more



The Primeprint Solution workflow in the dental lab:



1 Digital design

In the dental laboratory, the restoration design is created based on intraoral or extraoral scan data and carried out using the dental laboratory's CAD software, e.g. inLab Software, or software from another manufacturer¹. inLab CAD Software automatically takes into account the design parameters for 3D printing with Primeprint.



2 Preparation of print job

Object and order data from the inLab CAD software are automatically applied to the inLab CAM Software, which eliminates the need to enter them again. Design data of other CAD software are imported into the open inLab CAM Software in STL format¹ and prepared for the print process with just a few clicks.



3 3D printing and post-processing

3D printing and post-processing with Primeprint Solution are easily and comfortably performed in the dental lab through a highly automated process.



4 Finalization

The Primeprint Solution Platform Holder supports quick removal of the printed objects from the building platform before support structures can be removed, and the application can be prepared for further processing.



Scan now:
Take a look at the workflow of a working model



¹ All design files in *.stl file format are beyond the intended use of the respective Dentsply Sirona production system and potentially inadequate. Dentsply Sirona rejects liability for all possible risks to the user, third parties, and the production device itself with all associated components when processing designs based on *.stl file format.