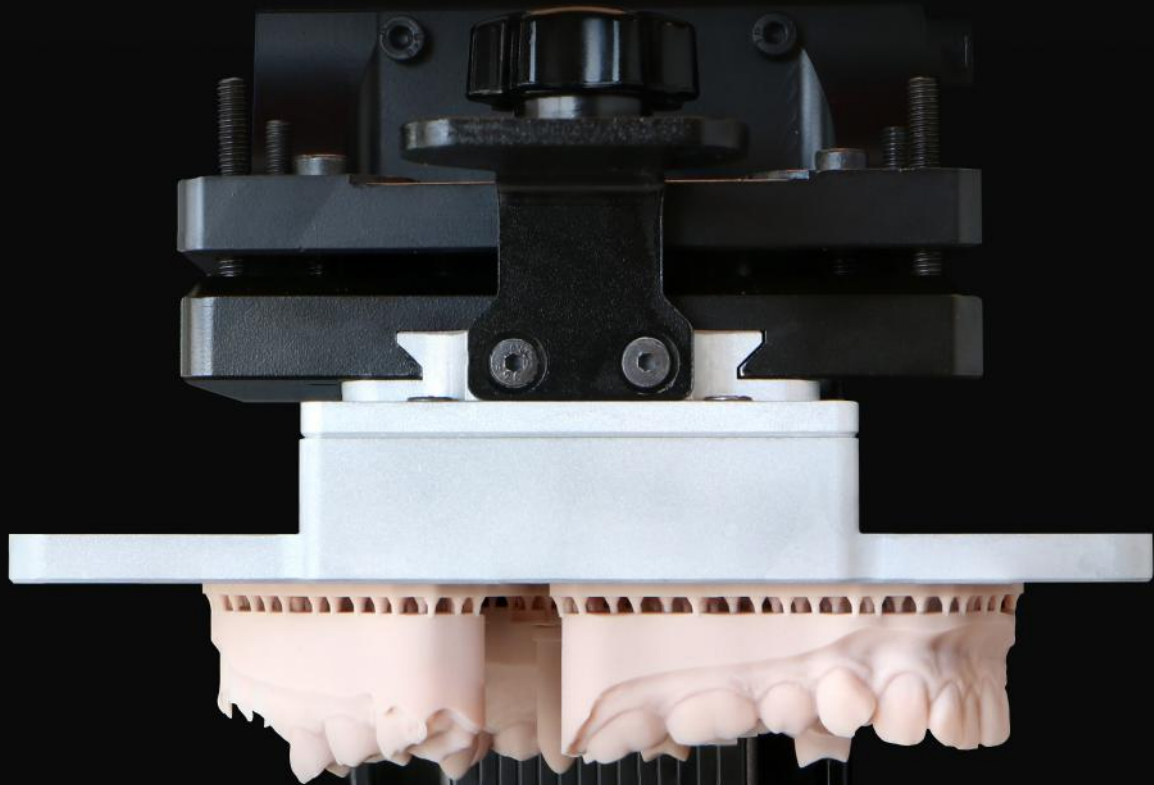


Redefining Dental 3D Production!



DentaFab 

Dentafab contributes to the development of digital dentistry with its products and knowledge.

1 | Sega Dental 3D Printer

With the fastest 3D Printer, you can produce within a few minutes highly accurate dental models, surgical guides, temporary teeth, crowns, bridges, partial frameworks or custom impression gingiva trays.



2 | Materials & Applications

We produce and develop professional materials for dental production. These resins, developed for different applications, provide the best results on the Sega dental 3D printer.



3 | Post-Process Washing

Post-printing processes are important for a good production. With washing devices, you can achieve fast, clean and perfect results.



4 | Post-Process Curing

UV curing machines are used for the secondary curing of printed parts to obtain better part performance. Properly cured 3D printed parts have mechanical properties far superior to those that are improperly cured.



SEGA Dental 3D Printer

All your dental production at an outstanding speed and quality!

You can produce within a few minutes highly accurate dental models, surgical guides, temporary teeth, crowns, bridges, partial frameworks or custom impression gingiva trays.



Extreme Speed for dental production !

> Technology
Fast DLP

> Build size
120×68 mm

> Z Layer Thickness
100 / 50 / 30 μm

> Z Speed
90 mm/hour at 50 μm

- Extremely fast speed designed for dental production
- High precision and accuracy
- Over 99.9% print success and efficiency
- Projector warranty of 20,000 hours of printing
- Peeling technology that does not require extra base





Dental Model Applications

MODEL MSDS



SCAN CODE

Are your digital implant libraries up to date?

Regardless of brand and model, you can produce digital impressions that fit perfectly with all implants. High accuracy is required in prosthetic dental model impressions. The perfect combination of the Sega 3d printer and PowerResins Model resin provides you with an ideal production of scanning impressions.

- The color and opaque texture facilitates color matching in zircon or ceramic tooth coatings.
- Produce digitally scanned models in minutes with high quality
- Use for wax-up or mockup applications for smile design
- Get perfect accuracy and all details of the scanned models in the printed parts



SMOOTH SURFACE

Print any models with perfect smooth quality and accuracy.



GOOD COLOR & CLARITY

Allows you to work more easily with skin color and contains no pigment solution.



LOW SHRINKAGE

This resin has low shrinkage and will not change shape after post-curing.

MECHANICAL PROPERTIES

Tensile strength 26.2 MPa

Flexural strength 99 MPa

Flexural modulus 2640 MPa

Shore hardness 76.75 D

Density 1.1 g/cm³ at 23°C

Viscosity 200 - 225 mPa.s at 23°C



> Model with Implant Analog



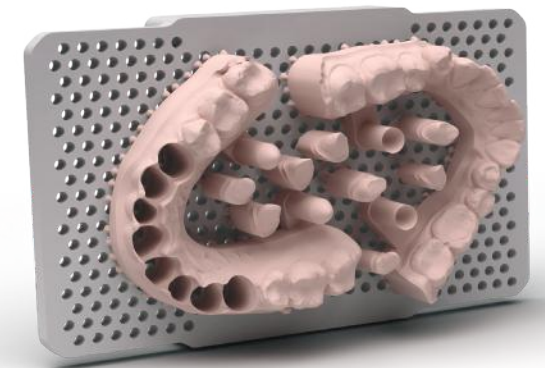
> Model with Dies



> Model with Implant Analog



> Printing Model with Dies





Clear Orthodontic Aligners

MODEL MSDS



SCAN CODE

Fast and Easy DIY Orthodontic Clear Aligners!

With the Sega 3d printer and Model resin you can easily produce all your orthodontic models within minutes and create your own aligners with vacuum thermoforming. Model resin provides high accuracy dental model printing while being hard and pressure resistant for vacuum thermoforming of aligners.

- Produce your own aligners at an unseen speed and accuracy.
- Extremely fast and economic orthodontic aligner production.
- All aligners production can be performed on the same day once the digital planning is completed.
- The low viscosity of the resin allows the models to be cleaned quickly and easily.

> Thermoforming for Clear Aligners



THERMOFORMING

High accuracy and pressure resistant for thermoforming of aligners.



HEAT RESISTANT

Models are stable at high temperatures which is suitable for vacuum thermoforming.



PRESSURE RESISTANT

Resist to high pressure which enables producing aligners with vacuum forming.



MECHANICAL PROPERTIES

Tensile strength 26.2 MPa

Flexural strength 99 MPa

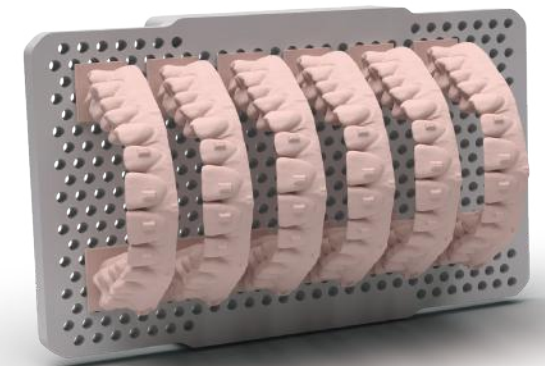
Flexural modulus 2640 MPa

Shore hardness 76.75 D

Density 1.1 g/cm³ at 23°C

Viscosity 200 - 225 mPa.s at 23°C

> Printing Orthodontic Models





Digital Temporary Restorations

No more PMMA !

Temp resin is a Class IIa biocompatible durable resin for patient's in-mouth use as temporary teeth. It is easily processed and cleanable material that is compatible with natural dental aesthetics. This resins comes in Light (A1, B1) and Medium (A2, A3) colour palettes.

- With its high strength, it is almost as durable as PMMA in Inlay, Onlay and Crown-Bridge designs.
- CE Certified Class IIa biocompatible materials for temporary teeth.
- It is perfectly compatible with syringe composites.
- Print 90 unit teeth in 15 minutes and implement patient's temporary teeth while they are still on the chair

TEMP MSDS



SCAN CODE

> Unpolished Temporary Teeth



> Polished Temporary Teeth



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



HIGH WEAR RESISTANCE

Resist to high pressure making it suitable for usage in mouth as temporary teeth.



LOW SHRINKAGE

This resin has low shrinkage and will not change shape after post-curing.



CERTIFIED PRODUCT

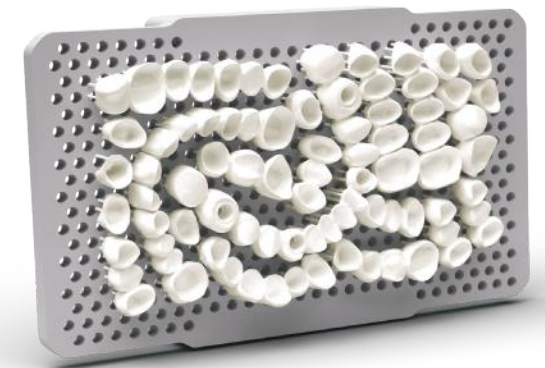
Its reliability has been confirmed by CE Class 2a certification.



> Printing Temporary Teeth



> Printing Temporary Teeth



MECHANICAL PROPERTIES

Tensile strength 66.5 MPa

Flexural strength 126 MPa

Flexural modulus 2980 MPa

Shore Hardness 85.7 D

Density 1.14 g/cm³ at 23°C

Viscosity 2500 - 3000 mPa.s at 23°C





Surgical Guides

Increase the predictability of your dental implant treatments with Surgical Guide

PowerResin Surgical Guide is a transparent biocompatible Class I material, developed for high precision implant guided surgeries. High resolution and speed 3D printing with exceptional mechanical properties provides you the best implant guidance cost effectively. Because of the high precision of this material it is easy to insert drill sleeves, directly after printing.

- High flexural strength and resistant
- Transparent, odorless and tasteless
- Can be sterilized using standard autoclave protocols
- Low cost, fast return on investment
- Print 7 surgical guides in 16 minutes with SEGA fast DLP 3D printer!



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



ACCURATE & PRECISION DRILLING

It has been specially developed for performing precise surgical implant procedures.



HIGH WEAR RESISTANCE

It is resistant to high pressure and is suitable for use in the mouth as an implant guide.



CERTIFIED PRODUCT

Its reliability has been confirmed by CE Class 2a certification.



MECHANICAL PROPERTIES

Tensile strength 41.1 MPa
Flexural strength 104.2 MPa
Flexural modulus 2800 MPa

Shore Hardness 83.6 D
Density 1.1 g/cm³ at 23°C
Viscosity 520 - 540 mPa.s at 23°C



> Printing Surgical Guides





Digital Dentures

Let the 3d printer manufacture your digital dentures!

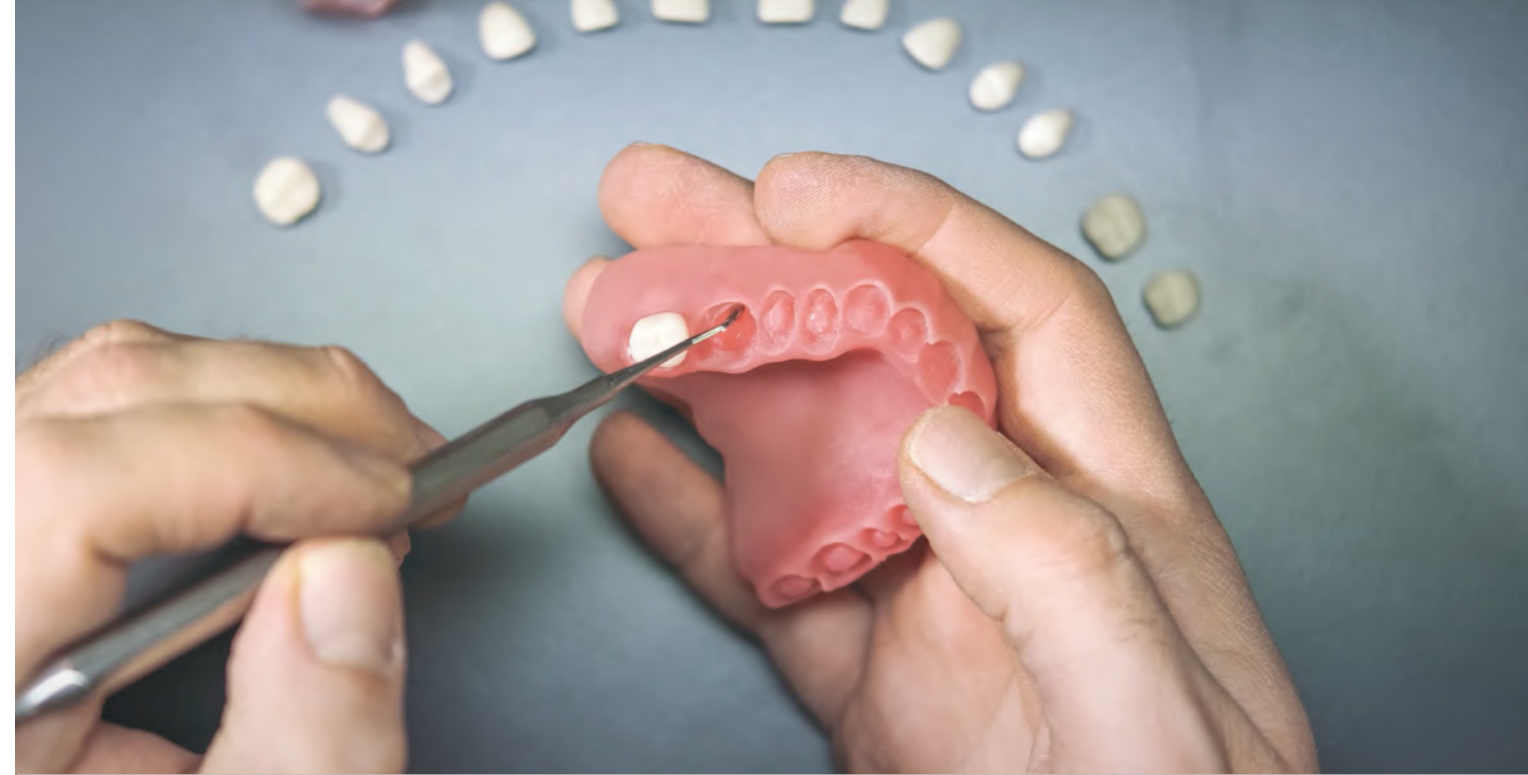
Produce your removable digital dentures better, faster and easier! You can produce dentures within minutes using the Sega 3d printer and our biocompatible long term Denture resin.

- Design, print and finish perfect removal dentures
- Perfect fit suitable with ready made branded teeth
- Exceptional mechanical properties
- Colour stability, odorless and tasteless
- MMA-free, Class IIa biocompatible resin

DENTURE MSDS



SCAN CODE



BIOCOMPATIBLE

Biocompatible and safe to use in mouth. Produced from biocompatible raw material used in dental applications.



MAXIMUM MECHANICAL FLEXURAL

Displays maximum mechanical flexural and tensile strength without becoming brittle



GOOD COLOR & CLARITY

Allows you to work more easily with skin color and contains no pigment solution



CERTIFIED PRODUCT

Its reliability has been confirmed by CE Class 2a certification.



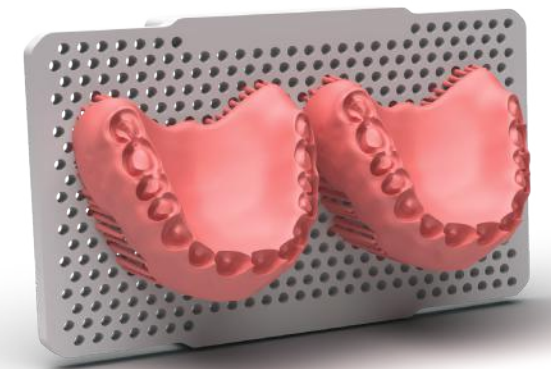
MECHANICAL PROPERTIES

Tensile strength	22.2 MPa
Flexural strength	114 MPa
Flexural modulus	2890 MPa

Shore Hardness	83.6 D
Density	1.12 g/cm ³ at 23°C
Viscosity	2300 - 2400 mPa.s at 23°C



> Printing Dentures





IPS e-max Press Production

BURN MSDS



SCAN CODE

Produce with the lost wax press method all your inlays, onlays, minimal invasive crowns and thin laminate veneers using Dentafab 3d printer and castable resin.

- Get custom restorations that provide natural color transition
- Design thin laminate veneers up to 0.28 mm wall thickness
- Use lithium disilicate glass-ceramic material with long life and flexible cementation
- %100 ash-free, suitable for all known investment brands.

Suitable for :

- Anterior and posterior crowns
- Veneers
- Inlays and Onlays
- Hybrid abutment crowns



E-MAX PRESS

Suitable for Emax press using any investment.



100% ASH-FREE CASTABLE

Specially made for direct casting. Evaporates with heat leaving no ash.



EASY TO CAST

Easy to cast with investments such as Sherafine, Polyvest, Siladent, Bego, Nanovest or others.

MECHANICAL PROPERTIES

Tensile strength 14.4 MPa

Flexural strength 20.7 MPa

Flexural modulus 472 MPa

Shore hardness 70.5 D

Density 1.1 g/cm³ at 23°C

Viscosity 490 - 510 mPa.s at 23°C

> E-max Press Veneers



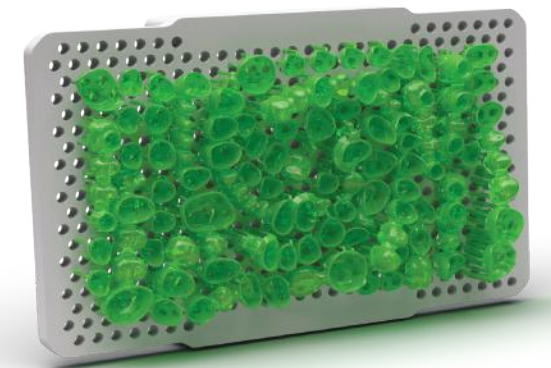
> E-max Press Veneers



> Inlay-Onlay Application



> Printing Crown & Bridges





Metal Crowns Production

Get the best casting quality with any investment!

According to scientific articles, metal infrastructures produced with a correct casting process are more successful in terms of porcelain compatibility than metal infrastructures produced with laser sintering.

- Easily produce high quality crowns, bridges, custom bars and hybrid abutment crowns
- Works perfectly with all investment brands!
- Suitable with any brand or type of metal alloy
- %100 ash-free castable resin providing best surface quality

BURN MSDS



SCAN CODE

> 6 Units Bridge



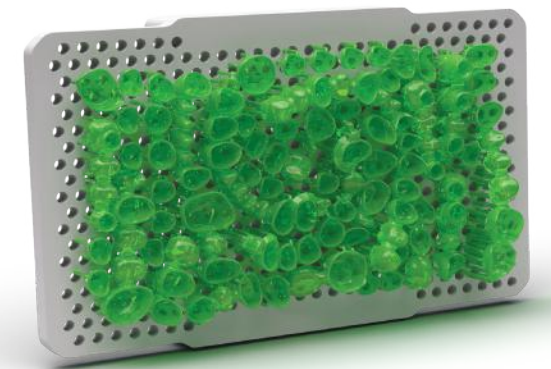
> 3 Units Bridge



> Extra Coronal Attachment



> Printing Crown & Bridges



PERFECT METAL CASTING

Easily do metal casting without damaging the investment.



100% ASH-FREE CASTABLE

Specially made for direct casting. Evaporates with heat leaving no ash.



EASY TO CAST

Easy to cast with investments such as Sherafine, Polyvest, Siladent, Bego, Nanovest or others.



MECHANICAL PROPERTIES

Tensile strength 14.4 MPa

Flexural strength 20.7 MPa

Flexural modulus 472 MPa

Shore hardness 70.5 D

Density 1.1 g/cm³ at 23°C

Viscosity 490 - 510 mPa.s at 23°C



Partial Framework Production

Meeting traditional casting with CAD digital dentistry!

We increase the quality of your partial framework production by combining conventional casting with the CAD/CAM system. The Sega 3D Printer and Burn casting resin combination allows you to produce partial framework designs very quickly with much more precision.

- Saves material and time
- Works with any investment brand
- Suitable for all type or brand of metal alloys
- Perfect fit through very high accuracy
- 100% ash-free resin providing very good casting surface quality

BURN MSDS



SCAN CODE

> Partial Frameworks



PERFECT METAL CASTING

Easily do metal casting without damaging the investment.



100% ASH-FREE CASTABLE

Specially made for direct casting. Evaporates with heat leaving no ash.



EASY TO CAST

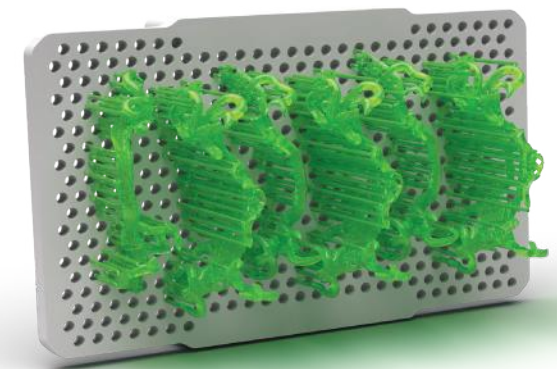
Easy to cast with investments such as Sherafine, Polyvest, Siladent, Bego, Nanovest or others.



> Partial Frameworks Raw Casting Samples



> Printing Partial Frameworks



MECHANICAL PROPERTIES

Tensile strength 14.4 MPa
Flexural strength 20.7 MPa
Flexural modulus 472 MPa

Shore hardness 70.5 D
Density 1.1 g/cm³ at 23°C
Viscosity 490 - 510 mPa.s at 23°C



Gingiva Mask

The perfect solution for implant models!

PowerResins GINGIVA resin is a flexible resin to print soft gingival masks for the model prints. It has a high dimensional stability. Gingiva prints can be easily trimmed to reach optimal fitting for the implant models. It is a natural gingiva color.

- Tear-resistance gingival masks
- Easily trimmed
- High dimensional stability

GINGIVA MSDS



SCAN CODE



TEAR-RESISTANCE

Gingiva prints can be easily trimmed to reach optimal fitting for the implant models.dental applications.



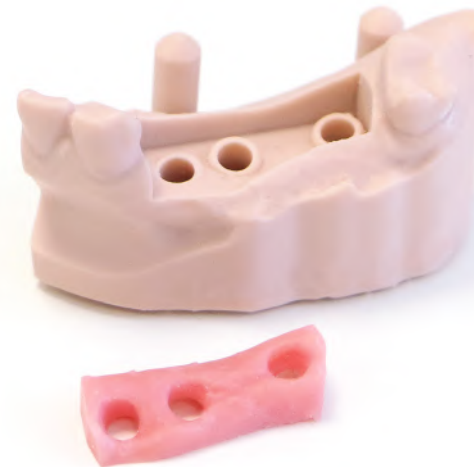
FLEXIBLE RESIN

It is produced to imitate the gingiva with its flexible structure.



NATURAL COLOR

Allows you to work more easily with natural color and contains no pigment solution



MECHANICAL PROPERTIES

Tensile strength 2.2 MPa

Flexural strength 1.1 MPa

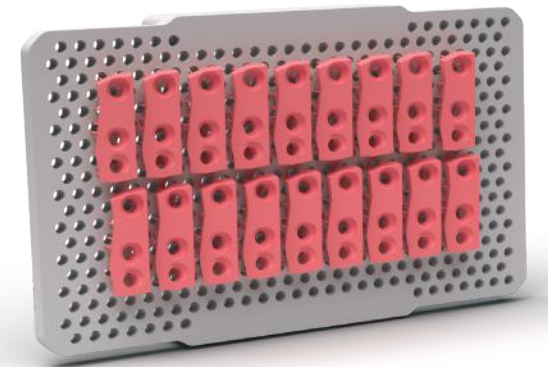
Elongation at break 24.5%

Shore Hardness 81

Density 1.104 g/cm³ at 23°C

Viscosity 1145 mPa.s at 23°C

> Printing Gingiva



Post-Printing Process

Products printed in 3D digital dentistry reach the desired mechanical values only after they are thoroughly cleaned and cured. With these devices you can do post-printing operations easy, fast and clean.

WASHING

3D Printed Parts Washer



Quick and powerful washing performance!

CURING

3D Printed Parts Curing



Fast curing machine for 3D Printed object performance!



Who are We?

R&D Center for Resin and 3D Printers

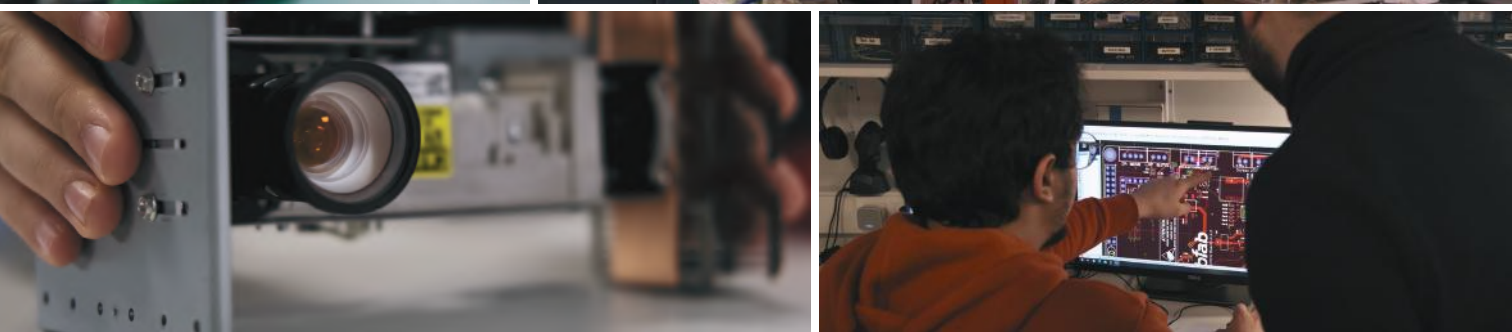
Founded in 2013, our company specializes in manufacturing high precision 3d printers and photopolymer dental resins. Our R&D center in Istanbul combines know-how of biomedical dental materials with 3d printer technologies. Furthermore, we have developed excellent castable resin with 100% ash-free burnout for the dental and jewelry industry.

High-End Professional 3D Printers

Our 3D printers are specifically developed for dental and jewelry professionals in order to achieve the highest accuracy and precision.

Global Reach

Our resins and 3d printers are used in over 40 countries. We are pleased to service customers globally with our 4 branch offices, sales offices in Istanbul and Dubai and our global reseller network. We also ship resin globally from our website powerresins.com



References

Some Worldwide References

- ▶ HDM Dent - UK
- ▶ Regency Square Dental - USA
- ▶ Cologne Dental - Dubai
- ▶ Brianzadent - Albania
- ▶ Implant Mill - Hungary
- ▶ Solomonidis Dental Care - Greece
- ▶ Tandtechnisch Labo Ortho-Tech - Belgium
- ▶ ISG Dental - Austria
- ▶ Labodent - Kosovo
- ▶ Marsfield Dental Care - Australia
- ▶ Rick Ferguson - USA
- ▶ Kerim Dental - Iraq

Some Turkey References

- ▶ Dentek Diş Protez Laboratuvarı - Izmir
- ▶ Attelia Ağız ve Diş Sağlığı Merkezi - Antalya
- ▶ Sedita Tasarım
- ▶ Lara Gozde
- ▶ Alize Dental
- ▶ Opal Dental
- ▶ Ilab Dis Protez
- ▶ IDG Sercan Arslansoy
- ▶ SDR Dis Protez Laboratuvarı
- ▶ Mesa Diş Laboratuvarı - Adana
- ▶ Erdal Diş Laboratuvarı - Mersin

Partners Worldwide



*Contact us for your local partner details



Live Webinar & Training

3D printing presents big opportunities for increasing the efficiency of your digital dental workflow. We believe that information is always more valuable when it's shared and this is why we provide free webinars for our community.



[Follow Webinars and Trainings](#)



/ Dentafab



/ Dentafab



/ Dentafab

Become a Partner

We have expanded globally since 2018 with 33 resellers around the world. We are always looking forward to new partners to build digital dentistry futures together.



Request Free Sample

Please contact us if you would like to have printed samples to check fitting, casting or any details about our production quality. We are more than happy to provide you with free samples.





CONTACT US

HEAD OFFICE and R&D CENTER

Ihlamurkuyu Mah. Çanakkale Cad.
Eren Plaza No: 5
Ümraniye / İstanbul
0 216 612 00 94 – 95

AMSTERDAM OFFICE

Overschiestraat 63, 1062 XD
Amsterdam / Netherlands
+90 533 141 71 93

DUBAI OFFICE

Unit 705, Jumeirah Bay X3, PO: 393915
Jumeirah Lake Towers
Dubai, United Arab Emirates
+971 4 244 31 35
+971 52 684 86 64

MIAMI OFFICE

18501 Pines Blvd Unit 310
Pembroke Pines, FL 33029
United States
850 558 4700

ADANA OFFICE

Reşatbey Mahallesi 62006 Sokak Florya
Cadde No:3 Kat:1 Daire:7
Seyhan / Adana

powerresins.com

Would you like to setup a demo
or have some sample prints?

Please contact us!

✉ dental@3bfab.com

☎ +90 541 764 92 59

📞 +90 542 463 89 78