

HUGE



IMPLANT SOLUTIONS



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HUGE and Implant Prosthesis

HUGE is dedicated to implant restoration and has a complete product line from clinical products to laboratory materials. HUGE is committed to providing customers with high-quality, innovative and cost-effective solutions for implantology.

HUGE is backed by a dedicated team enrolling clinical instructors and high-end R&D staff, so as to guarantee the reliability and effectiveness of the implant restorations by providing diverse and high-quality products.

HUGE applies strict quality control standards within the industry and has passed quality system certifications, such as CE (EU), FDA (USA), MDL (Canada) and ISO 13485.

Implant-supported dentures have basically solved the problem of the missing free-end teeth or the retaining support for complete denture, thereby restoring chewing, aesthetic and pronunciation functions.

As an important part of restorative dentistry, the implant restoration is a highly complicated process. More oral medical products are involved in this process, such as implants and auxiliary consumable products.

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Precise impression-taking

Precise impression-taking is one of the important steps in the process of implant restoration. A tight fit between the impression material and the impression post is required to achieve an accurate recording of the seating orientation of a restoration, whether an open tray impression technique or a closed tray impression technique.

Multiple Implant Impression Solutions

PERFIT Elastomeric Impression Material are vinyl polysiloxane (silicone) impression materials. They have all the characteristics needed to satisfy the latest requirements in implant prosthodontics. The material features excellent hydrophilicity and thixotropy for low viscosity under occlusal pressure to capture the finest details from the subgingival area.

PERFIT Putty A hand mixed putty impression material designed to be combined with PERFIT wash materials. Available in normal and quick-setting versions.

PERFIT Heavy Body A high viscosity Tray material that provides a first impression material with excellent engraving properties. Dispenser mixing and automatic mixing are optional.

PERFIT Light Body A low viscosity wash material with optimized thixotropy and hydrophilic properties, which ensures to provide high accuracy in impressions. Available in normal and quick-setting versions.

Two choices for implant impressions, both can help you achieve excellent functional and aesthetic results



Heavy Body-auto mix with Light Body



Putty-hand mix with Light Body

Precise impression-taking

OPERATING PROCESS (OPEN TRAY TECHNIQUE):

1. Load the PERFIT Heavy Body into the tray. Keep the mixing tips submerged in the tray material to prevent voids.



2. Inject PERFIT Light Body on the surface of PERFIT Heavy Body. Combine these two products.

3. Inject PERFIT Light Body around the impression posts, and ensure continuous flow around the impression posts.



4. Place the tray into the patient's mouth to take the impression and transfer the impression post successfully.

*For automatic mixing of the 5:1 systems we recommend the use of Sympress.



PERFIT Heavy Body Auto-Mix
380ml/cartridge



PERFIT Light Body
50ml/cartridge, 2 cartridges/box

DESCRIPTION:

PERFIT Impression Materials provide a essential solutions for implantology. In addition, it can also achieve precise impressions for crowns, bridges, inlays, and onlays.

PRODUCT BENEFITS:

- Good linear dimensional stability
- High tear strength and tensile strength
- Excellent hydrophilicity and outstanding thixotropy

Precise impression-taking

In implant treatment, products that assist restoration also play an important role. They provide convenience for both clinicians and technicians, thereby effectively saving working time and optimizing the treatment process.

PERFIT Regular Body can act as a model guide in temporary restorations, and can be used with temporary crown and bridge resin materials to make temporary restorations. It can assist in the aesthetic restoration of anterior teeth.

PERFIT Bite Registration is mainly used to record the relationship between the upper and lower jaws. A stable record is an important guarantee for the production of accurate and high-quality restorations.



PERFIT Regular Body



PERFIT Bite Registration

PERFIT Regular Body

Indication:

- a. Crown and bridge, edentulous, orthodontic and implant impression techniques.
- b. Light-curing guide for
 - 1) Anterior aesthetic restoration
 - 2) Indirect method of orthodontic brace bonding
 - 3) Occlusal stamp for composite restorations

Advantages:

- a. Reduce operation difficulty ,improve restoration quality and clinical convenience.
- b. Cut down chair time and re-diagnosis.
- c. Minimize material waste.



Packaging
50ml*2 Cartridge

Working time	1min30s
Setting Time in mouth	3min
Total Working time	4min30s

Precise impression-taking

OPERATING PROCESS:

1. Directly apply the bite registration material on the tooth surface. Ensure accurate and comprehensive documentation of the relationship between the upper and lower jaws.



2. Have patient bite into proper occlusion. Take out after the material is completely cured. Normal and fast setting versions available for clinicians to choose.

3. Remove the materials at the bottom of the concave with a scalpel and grinding wheel tip. Precise repairs help technicians in subsequent operations.



4. Complete the registration of the relationship between the upper and lower jaw positions. This is an important basis for making accurate and beautiful restorations.



PERFIT Bite Registration Efficient bite recording program 50ml*2 Cartridges

DESCRIPTION:

The outstanding handling characteristics are essential for an accurate occlusal registration. With high Shore A hardness and fast intraoral setting time, also enough flexibility for easy trimming and cutting, PERFIT Bite offers you a accurate and better operation experience.

PRODUCT BENEFITS:

- Fast setting and normal setting ensures better clinical experience.
- Excellent thixotropy helps to attain better control.
- High shore A hardness and high strength ensures dimension stability.

Model fabrication

In an implant scenario, an appropriate amount of the artificial gingiva material is applied around the implant analogue to accurately reflect the morphology and position of the gingival tissue around the implant neck.

For full arch implant scenario, individual trays are made using corresponding tray materials for a more accurate secondary impression-taking in the oral environment of the edentulous patient.



A-Silicone for Gingival Mask

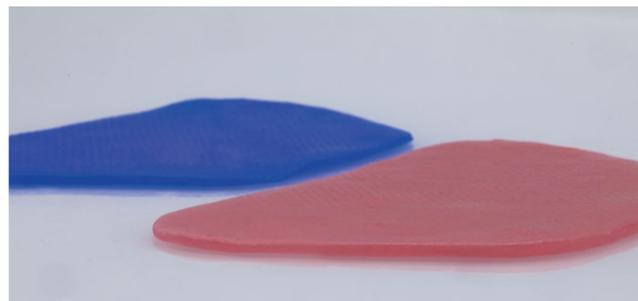
Imitate the actual gingiva conditions using artificial gingiva material to improve the accuracy of implantation



- A-Silicone for Gingival Mask:
- Easy to operate
- Excellent curing stability
- Precise replication of gingiva details

Light Curing Tray

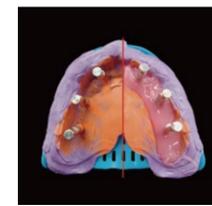
Applicable for patients without teeth in the scenario of complete implant-supported denture to improve the accuracy of impression



- 1-min operation, 3-min rapid light curing
- No weighing, no mixing
- Labor saving for 0.5-1 hours/pair

Model fabrication

Procedures for application of artificial gingiva materials

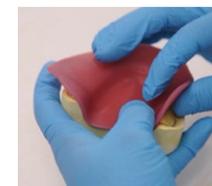


1. Apply the artificial gingiva material around the analogue to ensure that the artificial gingiva can be retained by resting on the analogue and ensure the accuracy of the model. Trim the artificial gingiva with a blade after curing.



2. Pour the mixed plaster into the impression, and separate the impression and the model once the plaster has hardened

Individual tray fabrication



1. Apply the separating agent on the model. Cover the model with individual tray, allowing the connecting rod to go through the tray, followed by the light-curing process



2. Grind the opening and the margin of the individual tray and verify on the model



3. The individual tray will be sent back to the laboratory to prepare for the second impression-taking



Huge A-Silicone for Gingival Mask

Description:

Huge A-Silicone for Gingival Mask is mainly applied in implant-supported dentures to replicate the gingival morphology of the patient's mouth.

Standard package:

2 cartridges/box



Huge Light Curing Tray

Description:

Huge Light Curing Tray is time-saving, labor-saving and cost-saving, and can be used to make individual trays for complete denture and implants.

Standard package: 50pcs/box

Sample: 2pcs/bag

Temporary restoration

A temporary restoration not only serves to satisfy the short-term aesthetic demands of the patient, but also contributes to the contouring of the soft tissues around the implant, providing a more natural-looking gingival penetration than a healing abutment. The dentist could also adjust the design of a final restoration based on the feelings of wearing the temporary restoration



Related products:

The main component of Huge PMMA Disc is the highly cross-linked polymethyl methacrylate (PMMA), which features a flexural strength of over 120 Mpa.

Multilayer PMMA Disc

Huge multilayer PMMA Disc can accurately simulate the shape and color of natural teeth, with natural and beautiful color gradations from root to tip.



Monolayer PMMA Disc

There are 23 shades including VITA 16 shades available, with a small shade difference, effectively avoiding the problems associated with shade difference.



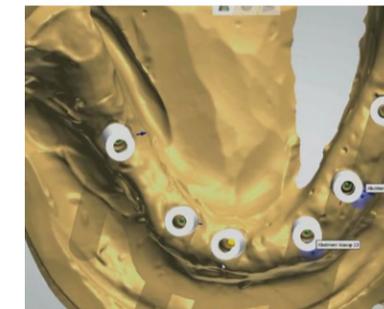
Full denture PMMA Disc

A composite resin disc of pink and monolayer color for temporary restorations in the scenarios of complete implant-supported denture.

Temporary restoration

OPERATING PROCESS:

1. Scan the patient's oral model, bite registration, etc. with a 3D scanner to convert the patient's oral cavity structure into a 3D picture in the format of stl.



2. Design a temporary restoration based on the patient's oral data model using dental CAD software.

3. Import the designed 3D model into the milling machine, and then perform milling.



4. Stain and polish the milled PMMA restoration to make the appearance of the restoration more similar to natural teeth.



Technical parameters

	PMMA Disc	Acceptance criteria of ISO
Flexural strength	>120 Mpa	>50 Mpa
Elasticity modulus	2500 Mpa	2200 Mpa
Hydroscopicity	11 µg/mm ³	<40 µg/mm ³
Solubility	0.2 µg/mm ³	<7.5 µg/mm ³
Residual monomer content	<1.0%	<2%
Composition	PMMA + Pigment (<0.5%)	

Adaptation system

- Open System 98 mm
- Zirkon-System 95 mm
- AG-System 89 mm
- Sirona-System
- Lava-System

Shades Available

Multilayer PMMA

A1	B1	C1	D2	BL
A2	B2	C2	D3	BL1
A3	B3	C3	D4	BL2
A3.5	B4	C4	2M2	BL3
A4				BL4

Monolayer PMMA

A0	B0	C1	D2	BL
A1	B1	C2	D3	BL1
A2	B2	C3	D4	BL2
A3	B3	C4		BL3
A3.5	B4			BL4
A4				

Final restoration

Zirconia features high strength, excellent biocompatibility, and translucency that is compatible with the demands for restorative materials. Zirconia is generally used for the crown and bridge restorations in dental scenario. The popularization of CAD/CAM processing technology has also improved the previous problems of zirconia in terms of convenience and processing precision.



Related products

As the latest generation of zirconia CAD/CAM product, Huge GM3D Zirconia Disc features an average test strength of over 900 MPa. The excellent performance of the product in terms of strength and aesthetics makes it feasible for most of the implant scenarios and can satisfy the demands for strength and aesthetics from anterior restorations to bridge implant structures.



GM3D - gradient multilayer

Natural transition in terms of shade, translucency and intensity
Appearance closer to natural teeth
Streamlined processing



MHT - multilayer high translucency

Multilayer pre-staining, non-trace gradient
Stable shades
Suitable for long bridge restoration



HT - high translucency

High strength, excellent translucency
Satisfying the strength requirements of all implant scenarios
Applicable to the fabrication of complete implant-supported dentures



Temporary restoration

OPERATING PROCESS:



Scan the patient's oral model, bite registration, etc. with a 3D scanner to convert the patient's oral cavity structure into a 3D picture in the format of stl.



Import the designed 3D model into the milling machine, set the corresponding shrinkage parameters of the product, and then perform milling.



Place the zirconia prosthesis in the sintering furnace, and set the furnace parameters according to the sintering curves of different products.



After sintering, glaze, re-sinter, polish and grind the restoration to increase its glossiness and make it more similar to natural teeth in appearance.



Bond the zirconia-based restoration to the abutment, and the detailed operation process may vary depending on the implant system.



Once the zirconia-based restoration has been completed, the technician will send it to the dentist for the next procedure.



Technical parameters

Series	Flexural strength	Translucency
GM3D	700-1060Mpa	44%-47.5%
MHT	1100Mpa	36%(A Light) 27%-34%(A Dark)
AT	>600MPa	49%
HT	1100MPa	41%
HS	1400MPa	35%

GM3D - gradient multilayer

Recommended applications:
Anterior
Posterior
Bridge



MHT - multilayer high translucency

Recommended applications:
Posterior
Bridge



HT - high translucency

Recommended applications:
Posterior teeth
Bridge
Complete denture



Bonding System In Implant Restoration

The bonding materials are necessary for the bonding and retention in implant restoration. In clinical settings, several types of bonding materials are available to achieve excellent retention between restorations and abutments, all of which can help you achieve outstanding functional and esthetic results.



Luting I

Glass Ionomer Cement
30g powder, 25g liquid

Bonding with glass ionomer cement is very popular in implant restoration. Luting I is highly effective in bonding metal and high strength (zirconia based) ceramic restorations, including inlays, crowns, bridges, root canal posts, etc. Sustained release of fluoride ions can prevent the occurrence of secondary caries.



HugeBond Universal

Light Cure Dental Adhesive
1*5ml/bottle

HugeBond Universal is the 8th generation of light-curing dental adhesive for direct bonding the restorations made of metals, ceramics, zirconia, composites, etc. A better bonding effect can be achieved when it is used in combination with coupling agent and resin cement. This product is widely employed for direct and indirect restoration.



TopCEM Ceramic Primer

Ceramic Coupling Agent
1*5ml/bottle

TopCEM Ceramic Primer is employed as a primer to create long-lasting adhesion between various restoration interfaces, including glass-ceramics, oxide all-ceramics (zirconia, aluminum oxide), metal alloys, etc. It is applied to enhance the bonding effect in implant restoration.

Bonding System In Implant Restoration



TopCEM

Dual Cure Resin Cement
1*8g/syringe

TopCEM is a versatile dental dual-curing resin adhesive that is capable of chemical and light curing. It is designed to assist in the bonding of various dental restorations, including restorations made of metal alloys, ceramics and composite materials. It needs to be used with adhesives and coupling agents.



TopCEM-RMGI

Resin Modified Glass Ionomer Cement-Luting
1*8g/syringe

Cementation of porcelain-fused-to-metal (PFM) crowns and bridges metal crowns, inlays and onlays all-alumina or all-zirconia strengthened core ceramic restorations resin inlays, onlays, crowns and bridges. Final cementation of PFMs, metal crowns, all-alumina or all-zirconia strengthened core ceramic restorations to implant abutments.

We are there for you. HUGE

- HUGE offers dentists and technicians a comprehensive portfolio of high-quality materials.
- HUGE has been committed to dental implantology, providing better restoration solutions.
- All products that bear the HUGE name have been produced with the utmost care, rigorously controlled, and certified.



CE 1639
ISO 13485:2016

- HUGE promises to provide professional training.
- As a partner of dentists, HUGE aims to support you in all aspects, including product solutions and practice-oriented professional training activities.

Contact us
www.hugedental.com

