Lithium Disilicate Press Ingots

Amber® Press

User's Manual (EN)

CE 2195 FDA

Amber® Press User's Manual

Table of Contents

Process
Simple & Safe

Shade Option
34 Shades

Flexural Strength
460 MPa

Lithium Disilicate Press Ingots

Amber® Press

Introduction

Amber® Press remarkably raises the bar for quality level of press ingots. Better-than-ever flexural strength comparing to previous lithium disilicate materials. Free from use of acid thanks to very small reaction layer residue on post-press product. Highly aesthetic and natural look achieved by diverse options for shade and indications.

1 Prep Guide

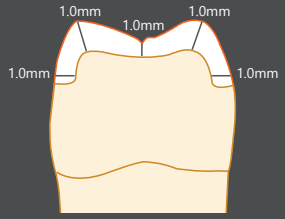
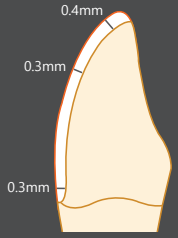
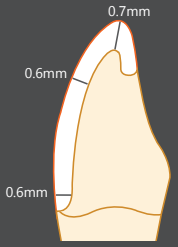


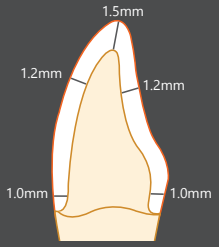
Table Top



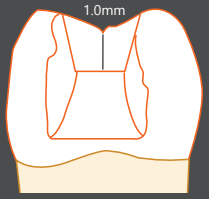
Thin Veneer



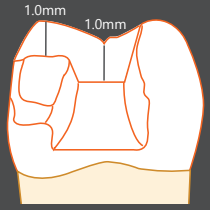
Veneer



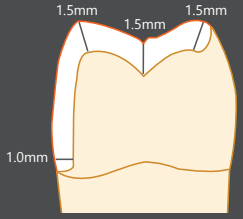
Anterior Crown



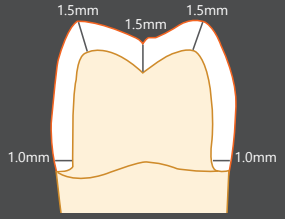
Inlays



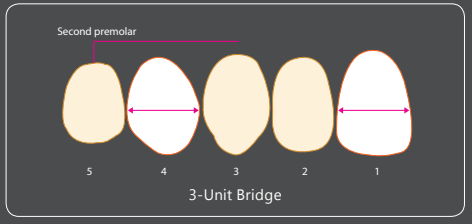
Onlays



Partial crown



Posterior crown



3-Unit Bridge

2 Seleting the ingots

Translucency Levels	Processing Technique			Indications								
	Staining Technique	Cut-Back Technique	Layering Technique	Table Tops	Thin Veneers	Veneers	Inlays	Onlays	Patial Crowns	Anterior Crowns	Posterior Crowns	3-Unit Anterior Bridges
High Translucency	★	★		★	★	★	★	★	★			
Medium Opacity			★							★	★	★
Low Translucency	★	★				★			★	★	★	★

※ Note

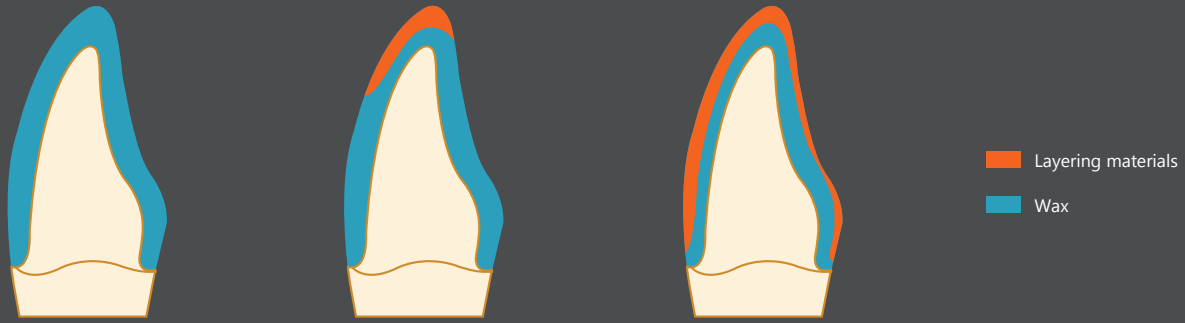
- For layering technique, use MO (Medium Opacity) ONLY.
- HT and LT are subject to either staining or cut-back technique.

3 Minimum thickness

		Table Tops	Thin Veneers	Veneers	Inlays	Onlays	Patial Crowns	Crowns		Bridge	
								Anterior	Posterior	Anterior Region	Premolar Region
Minimum Thickness Staining Technique **HT / LT**	Circular	1.0	0.3 ~ 0.6		1.0 isthmus width	1.0 isthmus width	1.5	1.2	1.5	1.2	1.5
	Incisal / Occlusal	1.0	0.3 ~ 0.7		1.0 fissure area	1.0 fissure area	1.5	1.5	1.5	1.5	1.5
Minimum Thickness Cut-back Technique (after reduction) **HT / LT**	Circular	-	-	0.6	-	-	1.5	1.2	1.5	1.2	1.5
	Labial / Occlusal	-	-	0.4	-	-	0.8	0.4	0.8	0.8	0.8
Minimum Thickness Layering Technique **MO**	Circular	-	-	-	-	-	-	0.6	0.8	0.8	0.8
	Incisal / Occlusal	-	-	-	-	-	-	0.6	0.8	0.8	0.8
	Design type	-	-	-	-	-	-	Height ≥ Width			
	Connector	-	-	-	-	-	-	-	-	16 ㎟	16 ㎟

Dimension in mm

4 Contouring

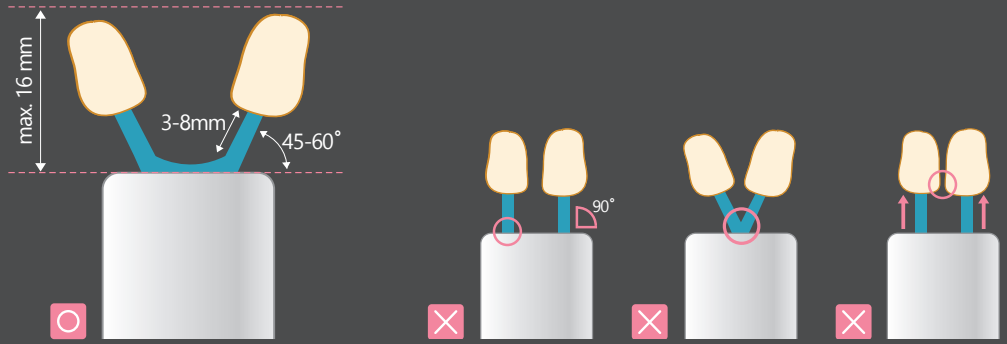


Staining technique HT/LT

Cut-back technique HT/LT

Layering technique MO

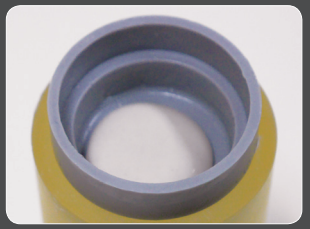
5 Sprueing



Ingot	Wax + Sprue	Invest Ring
R10 1ea (3g)	up to 0.7g	100g
R20 1ea (6g)	up to 1.7g	200g

Refer to the pressing schedule

6 Investing

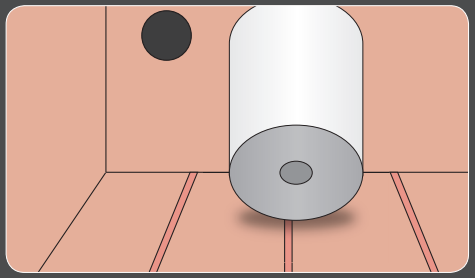


Use silicone ring for investment. Slowly and carefully fill in the investment material. Fill the investment ring up to the marking and position the ring gauge with a hinged movement.

7 Burn Out

- After removing the silicone ring, burn the wax out.
- The upper part of the surface should be lightly scraped before placing in the furnace.

Temperature	Invest: please refer to the manufacturer's recommendation of use
Holding time	
Ingot	No preheating
Plunger	No preheating



Lean the investment ring over the wall to facilitate the emission of gas and wax.

8 Pressing

	100g Investment Ring	200g Investment Ring
Single-Tooth Restorations	R10	R20
3-Unit Bridge	✗	R20
Amber®Press Ingot	Cold Ingots	Cold Ingots
Plunger	Cold Plunger	Cold Plunger
Plunger Separater	✓	✓

Pressing Schedules

Horizon (Shenpaz)[1]

Translucency	Size	Shade	Investment Ring	Start Temperature	Heating Rate	Max Temperature	Holding Time	Vacuum On	Vacuum Off
HT	R10 / R20	A1, A2, A3, A3.5, B1, B2, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	915℃	15 Min / 20 Min	700℃	915℃
LT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4							
MO		MO0, MO1, MO2, MO3, MO4				920℃			920℃

Austromat Press-i-dent (Dekema)[2]

Translucency	Size	Shade	Investment Ring	Start Temperature	Heating Rate	Final Temperature	Holding Time	Press Duration	Press Level
HT	R10 / R20	A1, A2, A3, A3.5, B1, B2, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	925℃	20 Min (100g) / 30 Min (200g)	Auto 1	6
LT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4							
MO		MO0, MO1, MO2, MO3, MO4				930℃			

1. Horizon is a registered trademark of Shenpaz Dental Ltd.
2. Austromat Press-i-dent is a registered trademark of DEKEMA Dental-Keramiköfen GmbH.

Pressing Schedules

EP600 (Ivoclar Vivadent)[3]

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
HT	R10 / R20	A1, A2, A3, A3.5, B1, B2, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	930℃	15 Min (100g) / 25 Min (200g)	300㎛/min
LT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4						
MO		MO0, MO1, MO2, MO3, MO4						

EP3000 (Ivoclar Vivadent)[3]

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
HT	R10 / R20	A1, A2, A3, A3.5, B1, B2, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	915℃	15 Min (100g) / 25 Min (200g)	300㎛/min
LT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4						
MO		MO0, MO1, MO2, MO3, MO4						

3. EP600, EP3000 are registered trademarks of Ivoclar Vivadent.

Pressing Schedules

EP5000 (Ivoclar Vivadent)[4]

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
HT	R10 / R20	A1, A2, A3, A3.5, B1, B2, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	915℃	20 Min (100g) / 30 Min (200g)	300㎛/min
LT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4						
MO		MO0, MO1, MO2, MO3, MO4						

※ Note

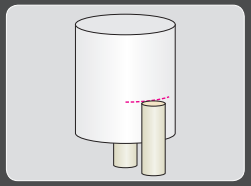
The above schedules are referential guideline only.

There may be a difference between the displayed temperature and the real temperature of each furnace.
When you use the Amber ingots, please verify the above standard schedule is suitable for your press furnace.
If it is not, please try to find the optimum temperature through the following process.

1) If there are some traces of tiny bubble on the surface of the restoration
   ⇒ Please reduce the maximum temperature by 5~10℃ or holding time and try pressing again.
2) If the marginal area of the restoration is not formed completely
   ⇒ Please increase the maximum temperature by 5~10℃ or holding time and try pressing again.

4. EP5000 are registered trademarks of Ivoclar Vivadent.

9 Divesting



Mark the length of the plunger

Separate the investment ring using a separating disk and break at the marked breaking point.

Divest with polishing bur until the object becomes visible.

※ Note

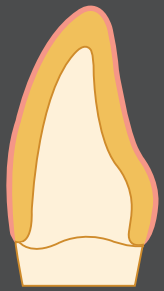
Divesting

- It is recommended to apply 4 bar pressure for the rough removal and 2 bar pressure for more detailed removal.
- After it has cooled down completely, divesting should be taken place.

Separating

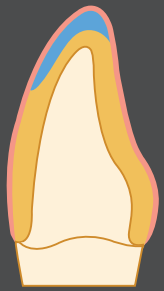
- Separating disks should be used with water during sprue cutting to avoid micro fracturing and to keep the restoration cool.

10 Characterizing



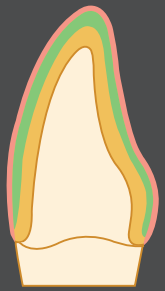
Staining technique HT/LT

1. Staining / glazing*
2. Firing*

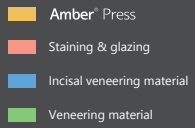


Cut-back technique HT/LT

1. Layering with veneering material*
2. Firing*
3. Staining / glazing*
4. Firing*



Layering technique MO

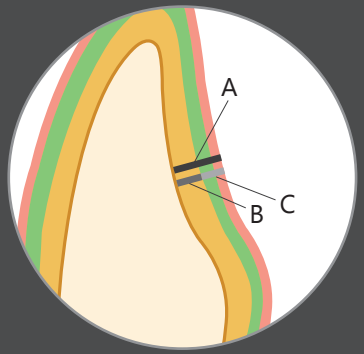


Amber® Press ingots are compatible with various veneering materials.

HT, LT Staining / Cut-back	- IPS e.max ceram (Ivoclar Vivadent) * - Initial LiSi (GC) * - VINTAGE LD Porcelain (Shofu) * - InSync (Jensen) * - Initial Zr-FS (GC) ** - Creation ZI-F (Creation Willi Geller) **
MO Layering	

*, ** Not a registered trademark of HASS Corp.

** If you use Initial Zr-FS (GC) or Creation ZI-F (Creation Willi Geller), we recommend you follow the Amber® Press Guidelines for Zirconia veneering materials.



Layer thickness

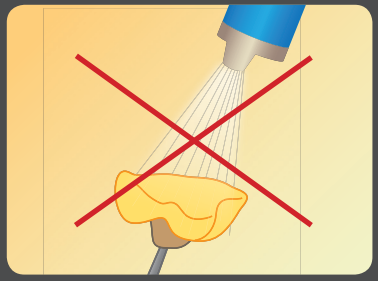
Dimension in mm

A	1.2	1.5	2.0	2.5	3.0
B	0.6	0.8	1.1	1.3	1.6
C	0.6	0.7	0.9	1.2	1.4

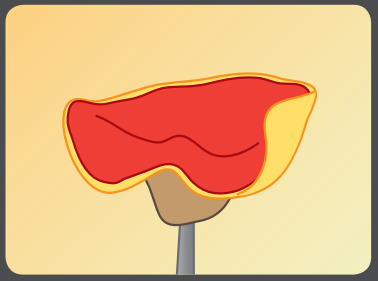
A : Overall thickness
B : Framework thickness
C : Veneering material* thickness

B > C, Framework is to be thicker than veneering material*

11 Preparing for Cementation



Do not blast restoration.



Etch for 20 sec with 5% hydrofluoric acid.*

* Respect all information given in the manufacturer's usage regulations.

Lithium Disilicate Press Ingots

Amber® Press

- Flexural strength of 460 MPa.
- Compatible with various porcelain powders.
- Minimized reaction layer.
- Crisp margins.

Lithium Disilicate Press on Zirconia

Amber® LiSi-POZ

- Flexural strength of 380 MPa.
- Superior bonding strength with ZrO_2 framework.
- High aesthetics with simple staining and glazing.
- Wide range of indications.

Lithium Disilicate Press Ingots

Amber® Press

User's Manual (EN)

HASS Corp.
77-14, Gwahakdanji-ro, Gangneung-si,
Gangwon-do, KOREA 25452
Tel: +82-70-7712-1300~4 / Fax: +82-33-644-1231
Customer Support : +82-2-2083-1367
E-mail : hasscorp@hassbio.com
Website : www.hassbio.com

Human-Aid System Supplier

beLIVE HASS

0606EN_170706