

Lithium Disilicate-Based Press Ingots Amber Press

User's Manual







Contents

Amber® Press User's Manual

Table of Contents

1	Introduction	3
2	Preparation Guide	4
3	Select the Ingots	5
4	Wax-up	6
5	Sprueing	7
6	Investing	8
7	Preheating(burn-out)	9
8	Pressing	10
9	Divesting	13
10	Adjustment	14
11	Technique	15
12	Completion	18
13	Indications / Contra-Indications	19
14	Product Line-up	20

1. Introduction

Lithium Disilicate-Based Press Ingots

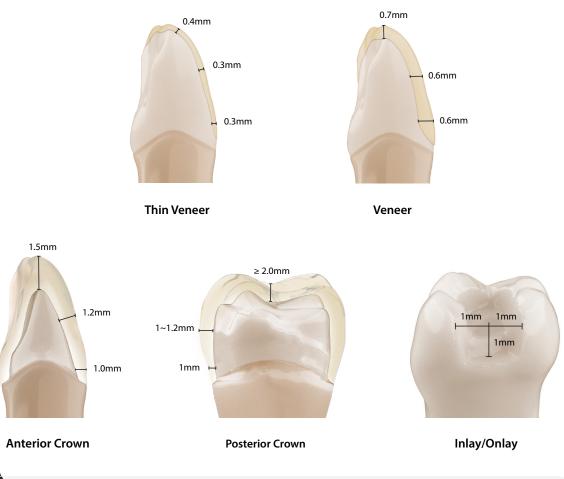
Amber[®] Press



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.

2. Preparation Guide



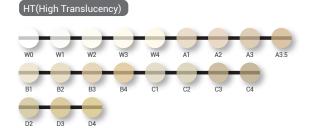


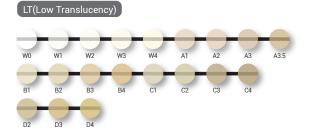
Make the prep tooth surface in the most rounded shape possible. (Deep chamfer margin, rounded shoulder margin).

Maintain the most even margin thickness possible.

3. Select the ingots







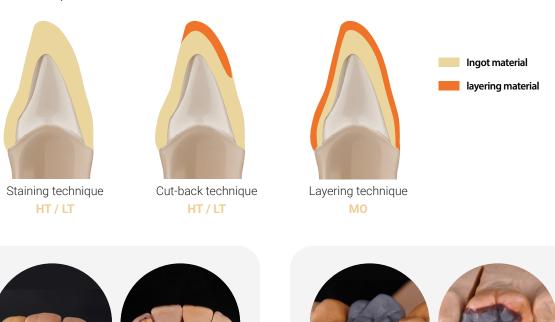




Please choose one step brighter shade than the one you actually plan for the final restoration. (This prevents restoration from decreasing in brightness during staining.)

4. Wax-up

Complete the final shape of restorations. Remember to use combustible wax when doing a burn-out process.









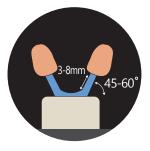
9

Form shapes while ensuring the wax thickness is not less than 0.3 mm

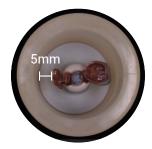
5. Sprueing

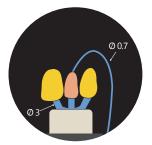
Attach the sprues in the direction of flow for ceramic so that ingot can flow smoother during pressing.





Connect the object and investment ring base at an $\angle 45\sim60^{\circ}$ angle, at a length of $3\sim8$ mm, using $\square 3\sim3.5$ mm of sprueing wax.





- Keep a distance of at least 5 mm between the wax-up objects and silicone ring.
- It is recommended to attach sprueing wax to each crown and it aids gas ventilation if air vent is attached in the thick part.

When finishing sprueing work, measure the total weight and subtract the weight of zirconia framework to decide the proper ingot size.

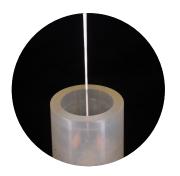


Ingot	Wax Weight	Invest. Ring
R10 1 ea(3 g)	~ 0.7 g	100 g
R20 1 ea(6 g)	1.2 ~ 1.4 g	200 g

6. Investing



After mixing powder and liquid by hand for 20 seconds, mix it again with vacuum mixer. If it has hardened in the pressurizer after investing, strength and surface roughness are enhanced during pressing.









For details, please refer to the IFU from the investment material manufacturer.



7. Preheating(Burn-Out)



- Remove the silicone ring only after the investment is completely set.
- Trim the upper side flat and place the investment ring in the preheating furnace.
- The lower side of the investment should face down.

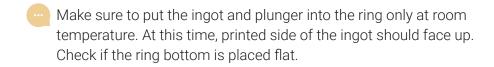
 Pay attention to ensure good drainage of the melted wax.

Setting time	min. 30 min, max. 45 min.
Preheating furnance temperature	$850^{\circ}\text{C}(1562^{\circ}\text{F})$; Switch on the preheating furnace in time
Position of the investment ring in the preheating furnace	Towards the rear wall, tipped with the opening facing down
Final temperature upon preheating the investment ring	850°C / 1562°F
Holding time of investment ring at the temperature	100g investment ring - min. 45 min.
Ingot & plunger	no preheating
Plunger (option)	no preheating



8. Pressing







Proceed to pressing the ingot at the appropriate temperature.

Pressing Schedules



There may be a difference between the temperature indicated on the furnace and the actual temperature. If problems occur after pressing, find out the optimal pressing temperature with the following process.

- Bubbles or discoloration on restoration surface : Decrease the Final Temp. by $5\sim10\,^{\circ}\text{C}$ degrees and try again.
- If pressing is not completed : Increase the Final Temp. by $5\sim10^{\circ}\text{C}$ degrees and try additional 5 minutes of holding time.

Austromat Press-i-dent (Dekema)*

*Austromat Press-i-dent is a registered trademark of DEKEMA.

Translucency	Size	Shade	Investment Ring	Start Temperature	Heating Rate	Final Temperature	Holding Time	Press Duration	Press Level
НТ		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W0, W1, W2, W3, W4	Small			925℃	20 Min		
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W0, W1, W2, W3, W4	(100g) / Large (200g)	700℃	60°C/min	9230	(100g) / 30 Min (200g)	Auto 1	6
MO		M00, M01, M02, M03, M04				930℃			

Horizon (Shenpaz)*

*Horizon is a registered trademark of Shenpaz.

Translucency	Size	Shade	Investment Ring	Start Temperature	Heating Rate	Max Temperature	Holding Time	Vacuum On	Vacuum Off
HT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W0, W1, W2, W3, W4				915℃			915℃
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W0, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60°C/min	9130	15 Min / 20 Min	700℃	9130
МО		M00, M01, M02, M03, M04				920℃			920℃

EP600 (Ivoclar Vivadent)*

*EP600 is a registered trademark of Ivoclar Vivadent.

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
НТ		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W0, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W0, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60°C/min	930℃	15 Min (100g) / 25 Min (200g)	300 <i>µ</i> m/min
МО		M00, M01, M02, M03, M04						

11

EP3000 (Ivoclar Vivadent)*

*EP3000 is a registered trademark of Ivoclar Vivadent.

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
HT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W0, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W0, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60°C/min	915℃	15 Min (100g) / 25 Min (200g)	300 <i>µ</i> m/min
МО		M00, M01, M02, M03, M04						

EP5000 (Ivoclar Vivadent)*

*EP500 is a registered trademark of Ivoclar Vivadent.

Translucency	Size	Shade	Investment Ring	Stand-by Temperature	Temperature Increase	Holding Temperature	Holding Time	Stop Speed
НТ		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W0, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W0, W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60°C/min	915℃	20 Min (100g) / 30 Min (200g)	300µm/min
МО		M00, M01, M02, M03, M04						

12

9. Divesting









- First check the length of the plunger and cut the investment with a disk.
- Use Al₂O₃ for sandblasting.
 4 bar of pressure for general blasting and 2 bar for precise blasting is recommended.
 Be cautious and only work after the ring has fully cool down.

TIP!



When cutting sprues, keep getting disk wet with plenty of water so that you can be cautious about micro fracturing.

Refer to the instructions for use of the corresponding investment materials. Just few amount of reaction layer remains on the result at the recommended temperature.

10. Adjustment

- Inlay



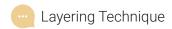
Anterior Crown

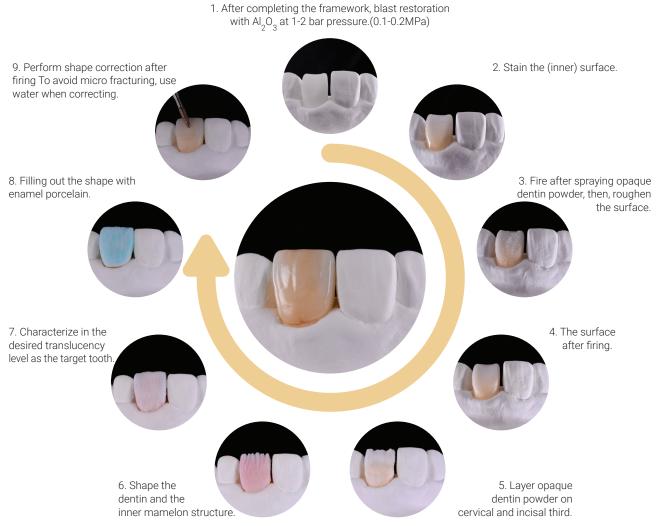


Posterior Crown



11. Technique





Cut-back Technique

1. After completing the framework, blast restoration with ${\rm Al_2O_3}$ at 1-2 bar pressure.(0.1-0.2MPa) 5. Filling out the shape with 2. Fire after spraying opaque dentin powder, then, roughen enamel porcelain. the surface. 3. The surface 4. Expresses the internal structure of the cut and after firing. the characteristics of the translucency.

Staining technique

1.Inlay / Onlay



After completing the framework, blast restoration with ${\rm Al_2O_3}$ at 1-2 bar pressure. (0.1-0.2MPa)



Stain



Final result

2. Crown



After completing the framework, blast restoration with Al₂O₃ at 1-2 bar pressure.(0.1-0.2MPa)



Shape correction



Stain



Final result

After shape correction, sandblast the spot with Al_20_3 , which will be stained, with 1 bar or less. Apply the stain as the target shade.

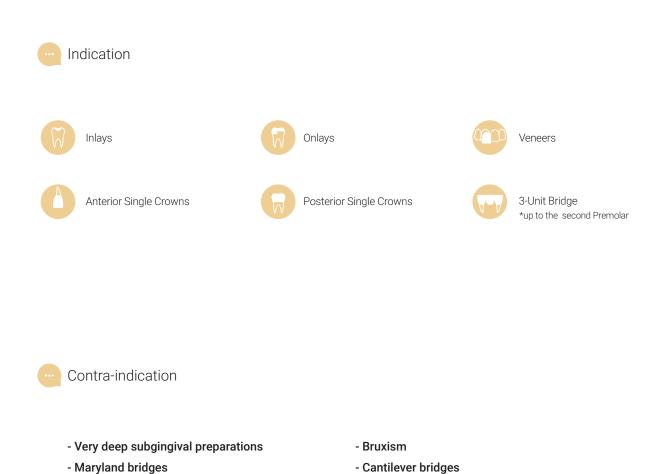
12. Completion



Courtesy of CDT. Won Pil Jang and Dr. Hee Kyong Lee, Seoul, Korea

13. Indications / Contra-Indications

- Patients with severely reduced residual dentition



14. Product Line-up

Product Line-up

Ambei	* Press	Dimensions (mm)	pcs / Pack
	R10	Ø12.7 x T 10	5 ingots
	R20	Ø12.7 x T 20	3 ingots

^{*} R10 can be used in either a 100 g or 200 g investment ring.

Available shades





HASS Corporation

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

Website: www.hassbio.com

This material is designed for usage in dentistry. Follow instructions HASS is not liable for any loss caused by failure to comply with regulation or scope of indication. Users are responsible for testing products to verify the compatibility for any usage which are not written in the instructions. The explanations and data contained within do not carry any guarantees and/or obligations. All enclosed recommendations and restrictions apply

when used with products from other manufacturers.