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# Lithium Disilicate-Based Press Ingots Amber <sup>®</sup> Press

#### **User's Manual**





€€2195 FD



**RX Only** 

#### Amber<sup>®</sup> Press User's Manual

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#### **1. Introduction**

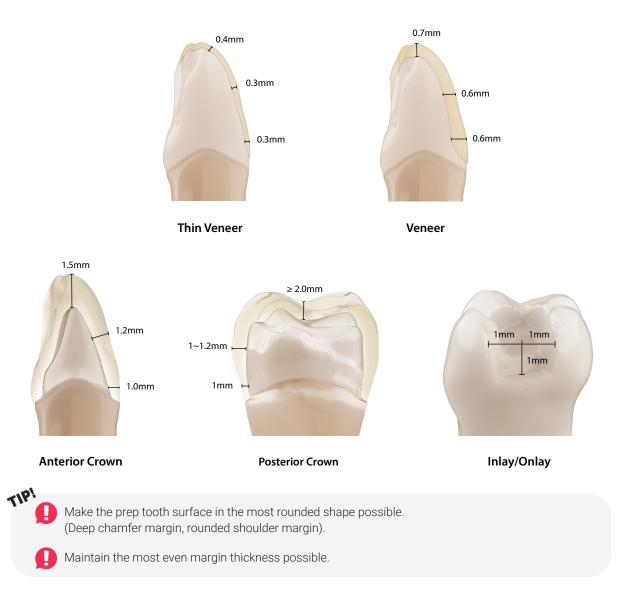
## Lithium Disilicate-Based Press Ingots Amber Press



Amber<sup>®</sup> 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.

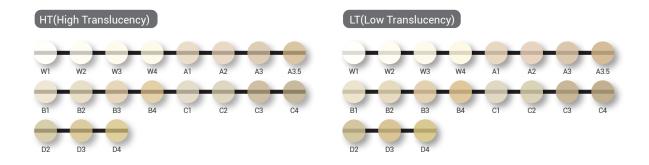
Highly aesthetic and natural look achieved by diverse options for shade and indications.

#### 2. Preparation Guide



#### **3. Select the ingots**

··· Available shades





TIP!

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.



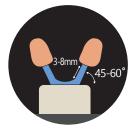
Form shapes while ensuring the wax thickness is not less than 0.3 mm

TIP!

#### 5. Sprueing

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

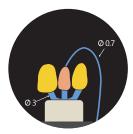




Connect the object and investment ring base at an ∠45~60° angle, at a length of 3~8mm, using 3~3.5 mm of sprueing wax.



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

TIP!



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.



### Amber<sup>®</sup> Vest





Comparison of Reaction Layer Generation on Surface

#### 7. Preheating(Burn-Out)

TIP!



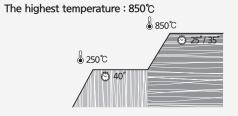
- Remove the silicone ring only after the investment is completely set.
- Trim the upper side flat and place the investment ring in the preheating furnace.
- The lower side of the investment should face down.
   Pay attention to ensure good drainage of the melted wax.

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

Burn-out temperature and time should be according to the manufacturer's guidelines.

ex) Phosphate-based investment material for ceramic press

Amber<sup>®</sup> Vest



#### 8. Pressing



Make sure to put the ingot and plunger into the ring only at room temperature. At this time, printed side of the ingot should face up. Check if the ring bottom is placed flat.



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 5~10°C degrees and try again.
- If pressing is not completed : Increase the Final Temp. by 5~10°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
HT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W1, W2, W3, W4	Small			925°C	20 Min		
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4	(100g) / Large (200g)	700°C	60℃/min	9250	(100g) / 30 Min (200g)	Auto 1	б
MO		M00, M01, M02, M03, M04				930°C			

TIP!

#### 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, W1, W2, W3, W4				915°C			915°C
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	9130	15 Min / 20 Min	700°C	9130
MO		M00, M01, M02, M03, M04				920°C			920°C

#### 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
HT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4	Small (100g) / Large (200g)	700℃	60℃/min	930°C	15 Min (100g) / 25 Min (200g)	300µm/min
MO		M00, M01, M02, M03, M04						

#### 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, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4	Small (100g) / Large (200g)	700°C	60℃/min	915°C	15 Min (100g) / 25 Min (200g)	300µm/min
MO		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
HT		A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, W1, W2, W3, W4						
LT	R10 / R20	A1, A2, A3, A3.5, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4 W1, W2, W3, W4	Small (100g) / Large (200g)	700°C	60℃/min	915°C	20 Min (100g) / 30 Min (200g)	300 <i>µ</i> m/min
MO		M00, M01, M02, M03, M04						

#### 9. Divesting

TIP!



First check the length of the plunger and cut the investment with a disk.

#### Use Al<sub>2</sub>O<sub>3</sub> 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.

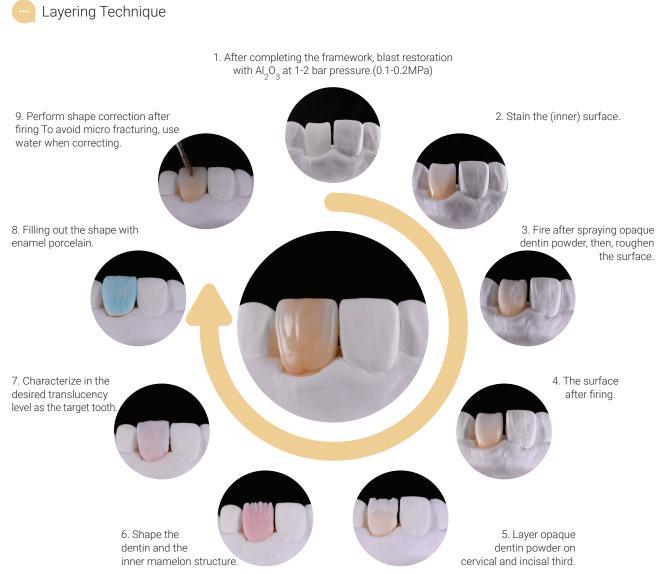
When cutting sprues, keep getting disk wet with plenty of water so that you can be cautious about micro fracturing.

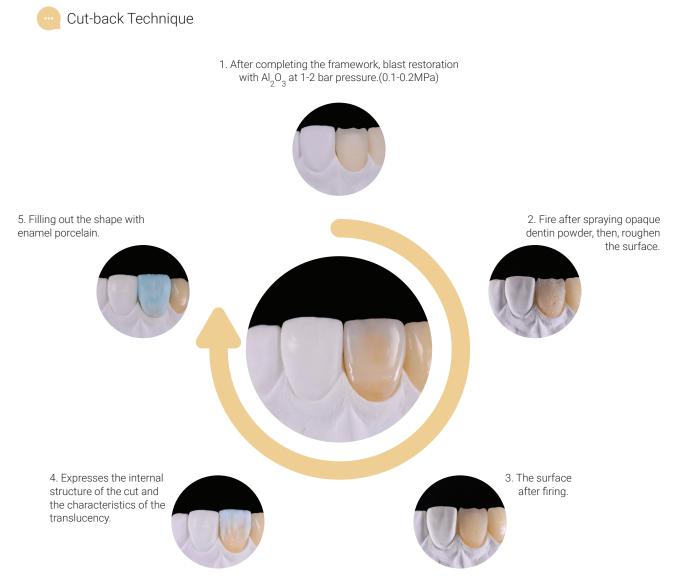
Refer to the instructions for use of the corresponding investment materials. Just few amount of reaction layer remains on the result at the recommended temperature.

#### 10. Adjustment



#### 11. Technique





#### Staining technique

#### 1.Inlay / Onlay



After completing the framework, blast restoration with  $AI_2O_3$  at 1-2 bar pressure. (0.1-0.2MPa)



Stain



Final result

#### 2. Crown



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



Shape correction



Stain



Final result

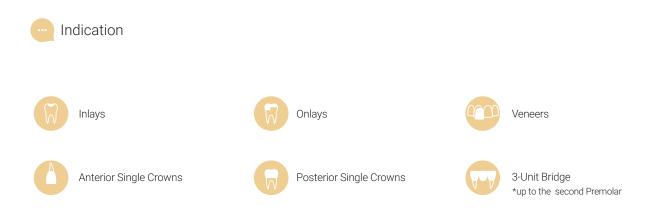
After shape correction, sandblast the spot with Al<sub>2</sub>0<sub>3</sub>, which will be stained, with 1 bar or less. Apply the stain as the target shade.

#### 12. Completion



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

#### **13. Indications / Contra-Indications**





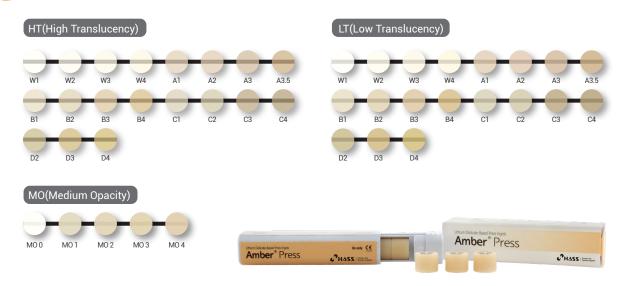
- Very deep subgingival preparations
- Maryland bridges
- Patients with severely reduced residual dentition
- Bruxism
- Cantilever bridges

#### **14. Product Line-up**

#### Product Line-up

Amber	* <sup>®</sup> Press	Dimensions (mm)	pcs / Pack
	R10	Ø12.7 x T 10	5 ingots
	R20	Ø12.7 x T 20	3 ingots

#### Available shades





#### **HASS** Corporation

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