





## **User's Manual**





C€2195 RX Only

# **Rosetta**<sup>®</sup> SP 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	11
10	Adjustment	12
11	Technique	13
12	Completion	16
13	Indications / Contra-Indications	17
14	Product Line-up	18

#### 1. Introduction

Lithium Disilicate Press Ingots

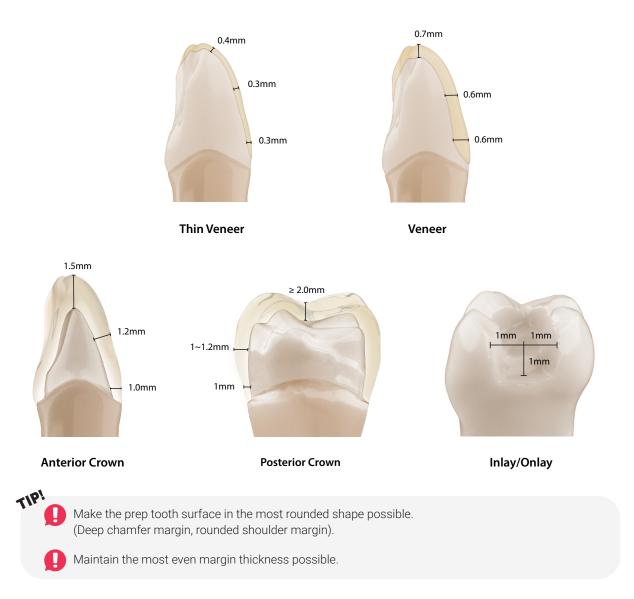


Rosetta<sup>®</sup> SP remarkably raises the bar for quality level of press ingots. Better-than-ever flexural strength comparing to previous lithium disilicate materials. Free from use of acid thanks to very small reaction layer residue on post-press product.

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

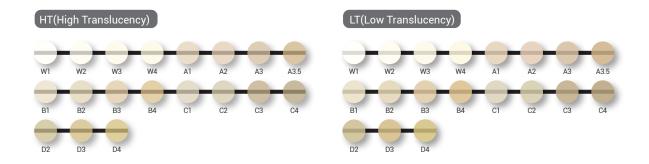


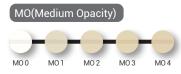
#### 2. Preparation Guide



## 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 turning greyish during staining.)

#### 4. Wax-up

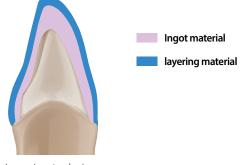
Complete the final shape of restorations. Remember to use combustible wax when doing a burn-out process.



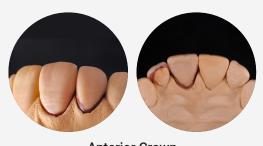
Staining technique HT / LT



Cut-back technique HT / LT



Layering technique



Anterior Crown

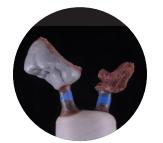


**Posterior Crown** 

**TP**<sup>1</sup> **()** Form shapes while ensuring the wax thickness is not less than 0.3 mm

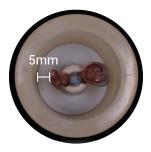
#### 5. Sprueing

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

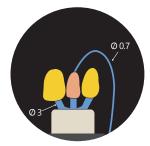




Connect the object and investment ring base at an  $\angle 45$ ~60° angle, at a length of 3~8mm, using  $\emptyset$ 3~3.5 mm of sprueing wax.



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!



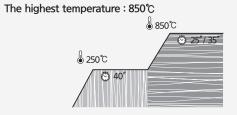
- Remove the silicone ring only after the investment is completely set.
- Trim the upper side flat and place the investment ring in the preheating furnace.
- The lower side of the investment should face down. Pay attention to ensure good drainage of the melted wax.

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
osition 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 (g)	Start Temp. (B, °C)	Heating Rate (t ∕, °C / min.)	Final Temp. (°C)	Holding Time (min.)	Press duration	Press level
HT		W1 W2 W2 WA	100	00		920	20		
LT		A1, A2, A3, A3.5, B1, B2, B3, B4,	100						
HT	R20	C1, C2, C3, C4,	60	925 40	Auto1	6			
LT	- nzu		100		525	40	Autor	0	
МО	R10 R20 M00, M01, M02, M03, M04	100			925	20			
1010		1000, 1001, 1002, 1003, 1004	200			930	40		

TIP!

#### 9. Divesting

TIP!



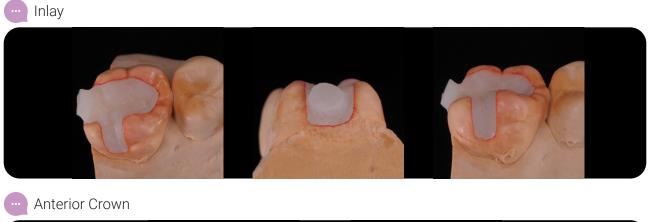
#### Use Al<sub>2</sub>O<sub>3</sub> for sandblasting.

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.

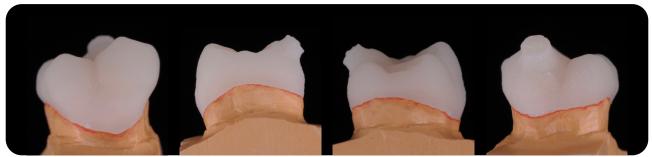
Refer to the instructions for use of the corresponding investment materials. Just few amount of reaction layer remains on the result at the recommended temperature.

# 10. Adjustment

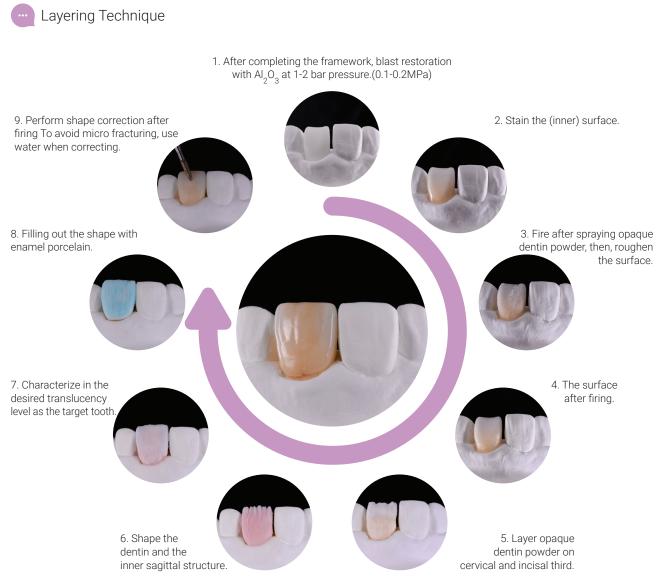


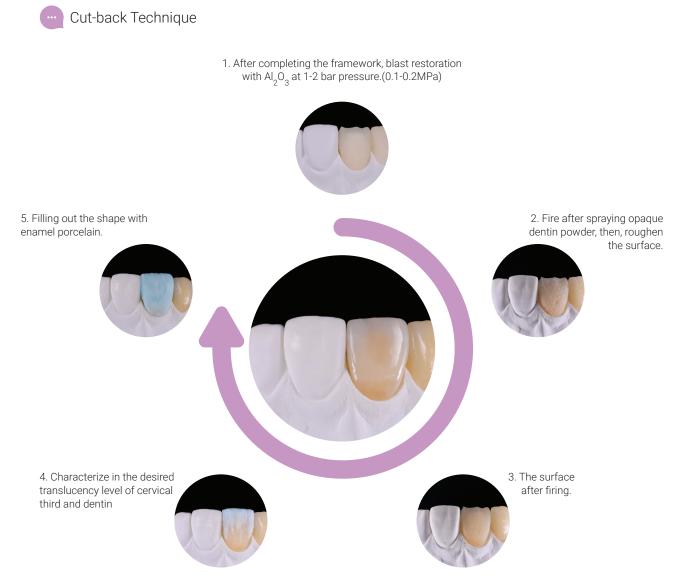






#### 11. Technique





#### 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

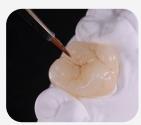
#### 2. Crown



After completing the framework, blast restoration with Al<sub>2</sub>O<sub>3</sub> 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.

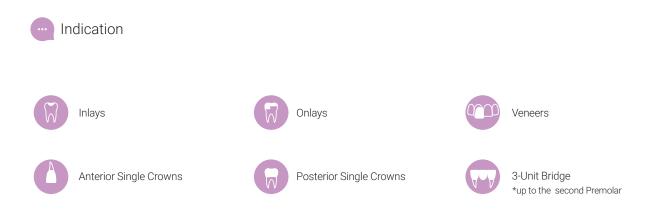
# 12. Completion

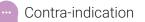




Courtesy of Dr. Puay Parinya, Bangkaew Smile Dental Clinic

#### 13. Indications / Contra-Indications





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

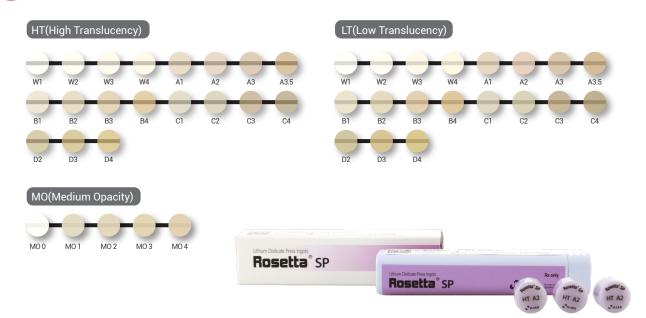
#### 14. Product Line-up

#### Product Line-up

Rose	<b>tta</b> <sup>°</sup> SP	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: vww.hassbio.com

Printed in KOREA © HASS Corporation. All rights reserved.

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.

SP\_MA\_EN\_230915