GENESISZR LVHT

Zirconia Milling Discs

Program A. Single Crowns (up to 15 per batch)

	Stage	Rate / min	Ramp Time	Hold Time
1	Ramp to 1000 °C	20 °C / min	50 min	0 min
2	Ramp to 1520 °C	10 °C / min	50 min	90 min at 1520 °C
3	Cooling to 250 °C	20 °C / min	65 min	n/a
	Total time		4 ho	ours, 21 min

Optimal program for quick sintering of single crowns.

The maximum 15 crown recomendation is based on molars averaging 1.8 grams, ¹⁰ totalling about 30 grams (the weight before and after sintering does not change). ⁵ 3 unit bridges with a small

pontic can also be sintered

with this program.

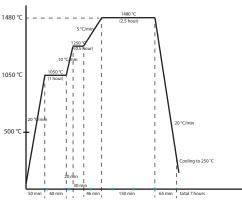
4 hours, 21 min

Program B. Single Crowns (exceeding 15) & 3 Unit Bridges

	Stage	Rate / min	Ramp Time	Hold Time
1	Ramp to 1050 °C	20 °C / min	53 min	60 min
2	Ramp to 1250 °C	10 °C / min	20 min	30 min at 1250 °C
3	Ramp to 1520 °C	5 °C / min	46 min	150 min at 1520 °C
4	Cooling to 250 °C	20 °C / min	65 min	n/a
	Total time			7:16 hours

Optimal program for single crowns exceeding quantities of 15 as well as 3 unit bridges with thick pontics (since large mass pontics require increased amounts of heat).

(2.5 hours of holding time will produce a pontic area with much better aesthetics than a 2 hour holding time since the white L* value is decreased)



ZIRCONIA SINTERING SCHEDULES

Patent No. US 10,463,457

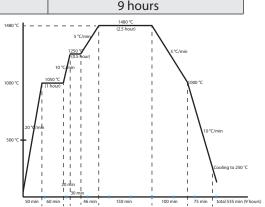
Program C. Bridges (over 3 units)

	Stage	Rate / min	Ramp Time	Hold Time
1	Ramp to 1050 °C	20 °C / min	50 min	60 min
2	Ramp to 1250 °C	10 °C / min	20 min	30 min at 1250 °C
3	Ramp to 1520 °C	5 °C / min	46 min	150 min at 1520 °C
4	Cooling to 1000 °C	5 °C / min	100 min	n/a
5	Cooling to 250 °C	10 °C / min	75 min	n/a
	Total time		9	hours

This is the universal program for single crowns and bridge cases.

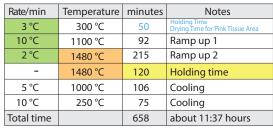
The extended cooling time will ensure minimal distortion and stress-free cooling of the bridge restorations.

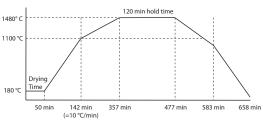
(2.5 hours of holding time will produce a pontic area with much better aesthetics than a 2 hour holding time since the white L* value is decreased)



Program D. Full Mouth Case

- Consistent and extended drying is necessary for the pink tissue area. (The pink color element takes more time to completely dry compared to the regular tooth body shades)
- Large zirconia masses such as the tissue area take longer to dry than crowns. Cracks may occur during sintering if not completely dried ahead of time.
- The bigger the case (especially for full mouth cases), the slower the ramp speed, particularly for Stage 2 ramp.





• For better drying of the Pink Tissue area, place the restoration with the pink side up.



GENESISZR LVHT

Zirconia Milling Discs

Parameters for GenesisZr LVHT Zirconia Glaze Firing

	Preheating Temp B [C/ F]	Drying Time S [min]	Temp Speed (Heat Rate) t × [C/ F/min]	Final Temp T [C/ F]	Holding Time H [min]	Vacuum Start V1 [C/ F]	Vacuum End V2 [C/F]
Glaze Firing	403 / 757	6:00	60 / 108	<u>800</u> / 1472	1:30	None	None
To the rigl example c copy for tl glaze prog for Origin zirconia g	of the scre he Hot Clo gram adju Beyond F	een ear usted Plus	Vacuum	32 Gla Gla V ₁ 0 3 S 02:30	¥e.max ze firing V₂ 0 t· 60	T 800	403 tL 600 O

ZIRCONIA SINTERING SCHEDULES

Patent No. US 10,463,457

	GenesisZr LVHT
Indications	Anterior & Posterior Crown, Veneer, > 4 unit bridges
Flexural Strength	1100 MPa : up to 14 mm, 1250 MPa: over 16 mm
Fracture Toug	hness > 5 MPam ^{0.5}

As measured according to ISO 6872:2015

For Optimal results, GenesisZr LVHT uses 6.1 liquids, though 6.1 and 6..0 liquids can be used and still produce acceptable results.

Origin Chroma liquids are available in 3 intensity levels: 60, 70 & 80. 60 produces the darkest result and 80 produces the lightest result.

Complete Origin Chroma instructions are available on our website or upon request.

CHR MA Incisal Enhancer Intensity & Recommended Application

16 CLASSIC SHADES 3D M

3D MASTER SHADES & BL1

1.5 OM1, OM2, OM3, BL1

A1, B1, C1 < 2.0 or 2.5 > 1M1, 1M2, 2L1.5, 2M1, 2R1.5

A2, A3, B2, B3, C2, D2, D3 **2.5** 2L2.5, 2M2, 2R2.5, 2M3, 3L1.5, 3M1, 3R1.5

A3.5, B4, D4 **3.0** > 3L2.5, 3M2, 3R2.5, 3M3

A4, C3, C4 **3.5** AL1.5, 4M1, 4R1.5, 4M2, 4R2.5, 4M3, 5M1,

5M2, 5M3

