

Matchmaker Zirconia Framework Finishing Kit

Instructions for Use

Applications

The Matchmaker Zirconia Framework Finishing Kit provides the range of instruments needed to, a) finish margins, b) adjust internal surfaces of frameworks, c) polish those surfaces not to be subsequently covered with layering porcelain.

Contra Indications

1. Never adjust the connectors of Zirconia Frameworks since this may weaken them and lead to premature failure of the restoration.
2. Never permit the Zirconia sub structures to heat up since this will lead to a phase change at the surface and a consequent reduction in the strength of the zirconia.

Use of water cooling

Diamond instruments and discs should always be used with water cooling such as water spray or the work being held with a wet sponge. The coarse abrasives and the medium and superfine polishers should however be used dry, i.e., without water cooling.

Maximum pressure and operating speeds

Always use light pressure to avoid heating the framework. Maximum operating speeds are as shown opposite.

Finishing margins and removing connectors

Margins should be trimmed with the zirconia coarse abrasives, reference LBZ-2 or LBZ-3 (pale green). Alternatively margins can be trimmed using the flexible disc LDD-7. This disc should also be used to remove milling supports.

Adjustment of internal surfaces

Should an internal surface need adjustment then use diamond burs LBD-3 or LBD-27 as appropriate.

Finishing of exposed surfaces of zirconia

Where a zirconia surface is to be left exposed and not layered with porcelain such as abutments or the cervical margins of Maryland bridges the surface should be as smooth as possible. In such cases further finishing should be carried out with the zirconia medium wheels LBZ-4 and LBZ-5 (blue) followed by the zirconia super fine wheel LBZ-6 (rose pink).

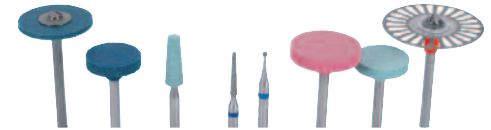
Thermal treatment (regeneration firing)

After any finishing of the zirconia sub structure, thermal treatment (regeneration firing) is recommended in order to reverse any phase transformation that may have taken place at the surface. Place in the porcelain furnace and pre dry at 500°C for 5 minutes and then increase the temperature to 1000°C at 100°C per minute. Hold in air for 15 minutes and allow to bench cool to room temperature. Vacuum is not required during the cycle.

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Kit contains: 2 Schottlander Coarse Zirconia Abrasives, 2 Schottlander Medium Zirconia Finishers, 1 Schottlander Super Fine Zirconia Polisher, 2 Schottlander Medium Laboratory Diamonds and 1 Schottlander Fine Separating Diamond Disc.



Code LBK-1

Matchmaker Zirconia Replacement Burs

Code	LBZ-2	LBZ-3	LBZ-4	LBZ-5	LBZ-6	LBD-3	LBD-27	LDD-7
Shape	173	372	372	371	372	001	199	402
Diameter	040	012	110	170	150	012	016	220
Grit	Coarse	Coarse	Medium	Medium	Super Fine	Medium	Medium	Fine

								
Max speed range rpm:	3000-18000	3000-6000	3000-10000	3000-8000	3000-10000	5000-30000	5000-30000	3000-5000
	<i>Use Dry</i>	<i>Use Dry</i>	<i>Use Dry</i>	<i>Use Dry</i>	<i>Use Dry</i>	<i>Water Cooling</i>	<i>Water Cooling</i>	<i>Water Cooling</i>