

rainbow™ Dental Lab System





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Block System

rainbow™

Block System

Dentium has created its own zirconia block in various shades and flexural strengths to reproduce as closely as possible, the natural human tooth. Dentium has gone even further by developing solutions and substances to provide users the control over the aesthetics in implant restorations.

rainbow™ Block **Indications**

IIIuications				: Recon	nmend <u>\(\lambda \)</u> : Available
Case	rainbow" High Shine Block	rainbow" Shine Block	rainbow [™] Shade Block	rainbow [™] LS Block	rainbow [*] LS Pressing
Full - contour single crowns					
Anterior (Woman)		\triangle	Δ		•
Anterior (Man)	Δ		Δ	•	•
Posterior	Δ	Δ			•
Full - contour bridges	Δ	Δ	Δ	-	-
Single crowns frameworks	Δ	Δ	Δ	-	-
Bridge frameworks	Δ	Δ	Δ	-	-
Inlays, onlays	-	-	-	•	•
Veneers	-	-	-	Δ	Δ



rainbow™ High Shine Block

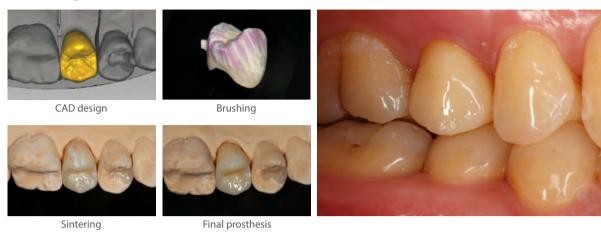
Semi-transparent block for anterior application for superior esthetics

Transparency is an important criterion when it comes to choosing the CAD/CAM block for anterior prosthesis. The main advantage of the rainbow $^{\text{m}}$ High Shine is its transparency, making it a favorable material to use to achieve anterior esthetics. It is available in both disk and step type in commonly used shades of A0, A1 and A2.

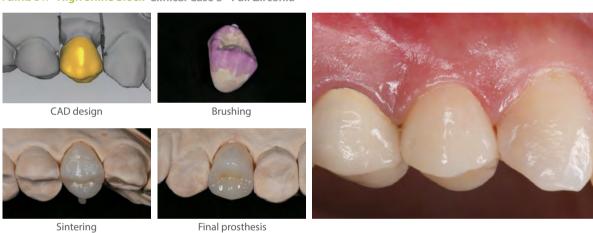
rainbow™ High Shine Block Clinical Case 1 - Full Zirconia



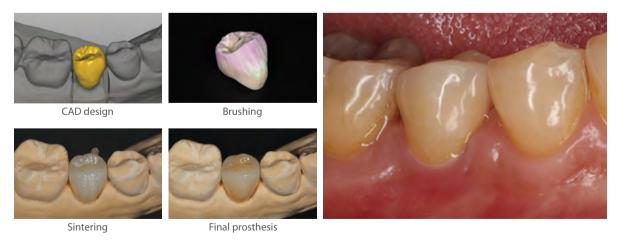
rainbow™ High Shine Block Clinical Case 2 - Full Zirconia



rainbow™ High Shine Block Clinical Case 3 - Full Zirconia



rainbow™ High Shine Block Clinical Case 4 - Full Zirconia



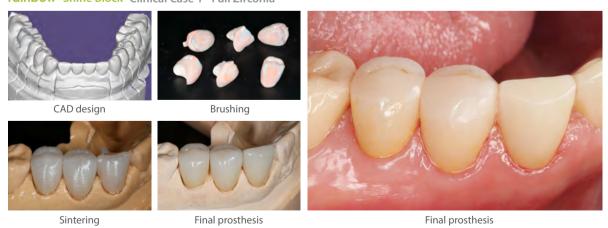


rainbow™ Shine Block

Semi-transparent block for anterior application for superior esthetics

- Clearer and more transparent than the traditional opaque and translucent blocks
- Higher in strength than the lithium disilicate product group
- Product available in shades A0, A1 and A2 for best esthetic result

rainbow[™] Shine Block Clinical Case 1 - Full Zirconia



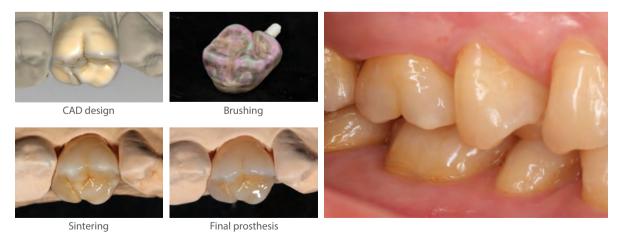
rainbow[™] Shine Block Clinical Case 2 - Full Zirconia

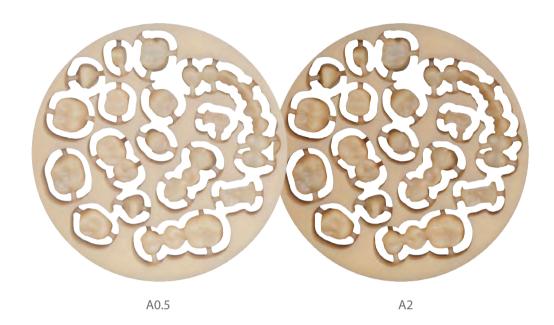


rainbow™ Shine Block Clinical Case 3 - Full Zirconia



rainbow[™] Shine Block Clinical Case 4 - Full Zirconia





rainbow™ Shade Block

- Original color of the blocks eliminates the need for additional dipping
- Uniform color tone is preserved even after occlusal articulation
- Entire "Vita A" shades are expressible with simplified constitution of A0.5 and A2 blocks

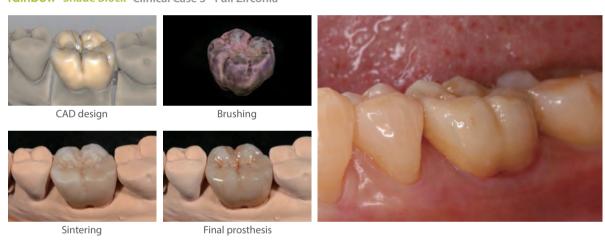
rainbow[™] Shade Block Clinical Case 1 - Full Zirconia



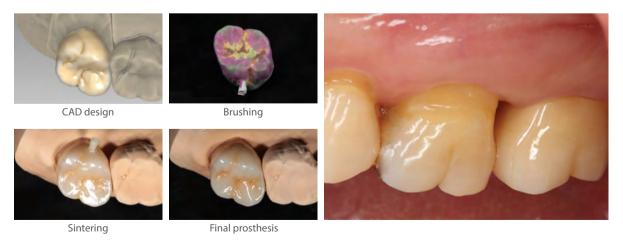
rainbow™ Shade Block Clinical Case 2 - Full Zirconia



rainbow™ Shade Block Clinical Case 3 - Full Zirconia



rainbow™ Shade Block Clinical Case 4 - Full Zirconia



rainbow™ **Shine** Block

Туре	Diameter (mm)	Shade	Height (mm)	Art. No.	Туре	Diameter (mm)	Shade	Height (mm)	Art. No.
			10	SH98 10 AO				12	SH98 12 WAO
			12	SH98 12 AO				14	SH98 14 WAO
			14	SH98 14 AO				16	SH98 16 WAO
		A0	16	SH98 16 AO			A0	18	SH98 18 WAO
			18	SH98 18 AO					
			20	SH98 20 AO				20	SH98 20 WAO
			22	SH98 22 AO				22	SH98 22 WAO
			24	SH98 24 AO				24	SH98 24 WAO
			10	SH98 10 A1				12	SH98 12 WA1
			12	SH98 12 A1				14	SH98 14 WA1
		A1	14	SH98 14 A1	Step			16	SH98 16 WA1
Disk	Ø98		16	SH98 16 A1		Ø98	A1	18	SH98 18 WA1
DISK	,000		18	SH98 18 A1	эсер		711		
			20	SH98 20 A1				20	SH98 20 WA1
			22	SH98 22 A1				22	SH98 22 WA1
			24	SH98 24 A1				24	SH98 24 WA1
			10	SH98 10 A2				12	SH98 12 WA2
			12	SH98 12 A2				14	SH98 14 WA2
			14	SH98 14 A2			A2	16	SH98 16 WA2
		A2	16	SH98 16 A2				18	SH98 18 WA2
			18	SH98 18 A2					
			20	SH98 20 A2				20	SH98 20 WA2
			22	SH98 22 A2				22	SH98 22 WA2
			24	SH98 24 A2				24	SH98 24 WA2

rainbow™ High Shine Block

Туре	Diameter (mm)	Shade	Height (mm)	Art. No.	Туре	Diameter (mm)	Shade	Height (mm)	Art. No.
			10	AT98 10 AO				12	AT98 12 WAO
			12	AT98 12 AO				14	AT98 14 WAO
			14	AT98 14 AO				16	AT98 16 WAO
		A0	16	AT98 16 AO			A0	18	AT98 18 WAO
			18	AT98 18 AO					
			20	AT98 20 AO				20	AT98 20 WAO
			22	AT98 22 AO				22	AT98 22 WAO
			24	AT98 24 AO				24	AT98 24 WAO
			10	AT98 10 A1				12	AT98 12 WA1
			12	AT98 12 A1	Step			14	AT98 14 WA1
			14	AT98 14 A1				16	AT98 16 WA1
Disk	Ø98	A1	16	AT98 16 A1		Ø98	A1	18	AT98 18 WA1
DISK	270		18	AT98 18 A1	жер				
			20	AT98 20 A1				20	AT98 20 WA1
			22	AT98 22 A1				22	AT98 22 WA1
			24	AT98 24 A1				24	AT98 24 WA1
			10	AT98 10 A2				12	AT98 12 WA2
			12	AT98 12 A2			A2	14	AT98 14 WA2
			14	AT98 14 A2				16	AT98 16 WA2
		A2	16	AT98 16 A2				18	AT98 18 WA2
			18	AT98 18 A2					
			20	AT98 20 A2				20	AT98 20 WA2
			22	AT98 22 A2				22	AT98 22 WA2
			24	AT98 24 A2				24	AT98 24 WA2

rainbow™ **Shade** Block

Туре	Diameter (mm)	Shade	Height (mm)	Art. No.	Туре	Shade	Diameter (mm)	Height (mm)	Art. No.
			10	TS98 10 AO5				12	TS98 12 AO5W
			12	TS98 12 AO5				14	TS98 14 AO5W
			14	TS98 14 AO5				16	TS98 16 AO5W
		A0.5	16	TS98 16 AO5			A0.5	18	TS98 18 AO5W
			18	TS98 18 AO5				20	
			20	TS98 20 AO5				20	TS98 20 AO5W
			22	TS98 22 AO5				22	TS98 22 AO5W
Disk	Ø98		24	TS98 24 AO5	Step	Ø98		24	TS98 24 AO5W
DISK	,,,,,		10	TS98 10 A2	этер	,550		12	TS98 12 A2W
			12	TS98 12 A2				14	TS98 14 A2W
			14	TS98 14 A2				16	TS98 16 A2W
	A2	16 TS98 16 A2 A2 18 TS98 18 A2 20 TS98 20 A2	16	TS98 16 A2			A2	18	TS98 18 A2W
			18	TS98 18 A2			AZ		
						20	TS98 20 A2W		
			22	TS98 22 A2				22	TS98 22 A2W
			24	TS98 24 A2				24	TS98 24 A2W

rainbow[™] LS Block

A lithium disilicate for CAD/CAM technique

• Excellent transparency and 9 shades (A1, A2, A3, A3.5, A4, B1, B2, B3, B4)



rainbow[™] LS Block Firing Parameter for Crystallization

Stand-by temperature	Closing time	Heating rate	Firing temperature	Holding time	Heating rate
B[℃]	S[min]	t1[°C/min]	T1[℃]	H1[min]	t2[℃/min]
403	6:00	90	820	0:10	30
Firing temperature	Holding time	Vacuum1	Vacuum2	Long-term cooling	Cooling rate tl[°C/min]
T2[℃]	H2[min]	1₁[°C]/1₂[°C]	2₁[℃]/2₂[℃]	L[℃]	
840	7:00	550/820	820/840	700	0

According to the condition of furnace, the firing temperature T2 can be adjusted. If excessive shrinkage occurs, please reduce the T2 by $5\sim10^{\circ}$ C

The above schedule is the manufacturer's recommendation for the optimum prothesis fabrication.

Furthermore, the rate of heat acceleration and the temperature maxima must be adjusted according to the furnace specification and the size of the prosthesis.

rainbow™ LS Block Order Information

Туре	Size(mm)	Shade	Art. No.
	10 x 12 x 15 ···	A1, A2, A3, A3.5 A4	LBI12A1, LBI12A2, LBI12A3, LBI12A3.5, LBI12A4
Mandrel	10 x 12 x 15	B1, B2, B3, B4	LBI12 B1 , LBI12 B2 , LBI12 B3 , LBI12 B4
Mandrei	12515105	A1, A2, A3, A3.5 A4	LBC14A1, LBC14A2, LBC14A3, LBC14A3.5, LBC14A4
	12.5 x 15 x 18.5	B1, B2, B3, B4	LBC14 B1 , LBC14 B2 , LBC14 B3 , LBC14 B4



rainbow[™] LS Block Clinical Case



By Dr. Hyun-Sik Park $_$ HEIM Dental Clinic

rainbow™ **LS** Pressing

A lithium disilicate ingot for pressing technique

- Excellent esthetic results and flexural strength (>500MPa, 3-point)
- Applicable to diverse cases including veneers, inlays, onlays and single crowns
- Capable of precise marginal fit



rainbow™ LS Pressing Guide

	Step 1	Step 2	Step 3	Step 4	Step 5
PROCESS	Coping create, connect inject line	> Landfill buried material	> Wax burn-out	> Pressing	Remove buried material
CONDITION	-	350rpm/1~2.5min. Vacuum100% Dry more than 30min.	850℃ 30 min.~60 min.	915~920℃	1~2bar(=15~30psi) Al ₂ O ₃ 50-100µm
EQUIPMENT (MATERIAL)	Wax block	Vacuum mixer, Buried material	Furnace	Furnace	Disk, Sand-blast $(Al_2O_3$, bar)

rainbow[™] LS Pressing Condition

Step	B	t /	T	H	E
	(Stand by temp.)	(The rate of heat acceleration)	(Holding temp.)	(Holding time)	(Cutoff velocity)
Detail Condition	700°C	60°C/min.	915~920℃	15:00min	300 <i>μ</i> m/min

The above schedule is the manufacturer's recommendation for the optimum prothesis fabrication.

Furthermore, the rate of heat acceleration and the temperature maxima must be adjusted according to the furnace specification and the size of the prosthesis.

rainbow[™] LS Pressing Order Information

Туре	Diameter	Height	Shade	Art. No.
Ingot	Ø12.5mm	10mm	A1, A2, A3, A3.5, A4	PI A1, PI A2, PI A3, PI A3.5, PI A4
mgot	912.311111	TOTTITI	B1, B2, B3, B4	PI B1, PI B2, PI B3, PI B4

rainbow[™] LS Pressing Clinical Case 1









rainbow[™] LS Pressing Clinical Case 2









rainbow[™] LS Pressing Clinical Case 3









rainbow[™] LS Pressing Clinical Case 4









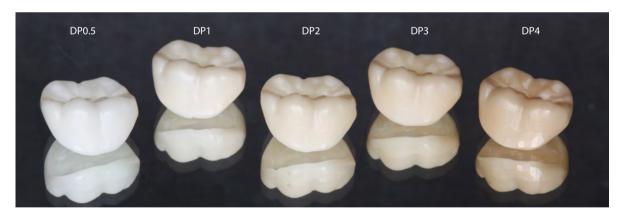


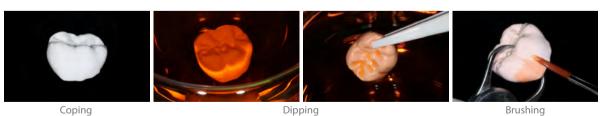


rainbow™ Coloring Liquid

- Coloring liquid for zirconia prosthesis
- Comprised of the five most commonly used dipping colors
- Deep color penetration to express a natural esthetic







rainbow™ Coloring Liquid Order Information

Туре	Color	Art. No.
Bottle	5	DP0.5 DP1 DP2 DP3 DP4

rainbow™ Brushing Liquid

- Fine detailing by implementing the brushing technique
- Solution type and pen type are available to accommodate user's preference
- Comprised of 12 color options (brown, orange, white, grey, pink, violet) to enhance the esthetics of the prosthesis and a diluting solution to adjust the color intensity
- Brushed area is easily distinguishable through the incorporated food dyes















rainbow™ Brushing Liquid Order Information

Туре	Color		Art. No.	
Bottle	12	Brushing Liquid-B Brushing Liquid-G Brushing Liquid-BL Brushing Liquid-GV	Brushing Liquid-O Brushing Liquid-P Brushing Liquid-DG Brushing Liquid-WO	Brushing Liquid-W Brushing Liquid-V Brushing Liquid-DB Brushing Liquid-WO (Anti-stain)
Pen	6	Brushing Pen-B Brushing Pen-G	Brushing Pen-O Brushing Pen-P	Brushing Pen-W Brushing Pen-V

rainbow™ Paste Stain

Enhanced uniform application and ease of use

- The paste-like consistency of the product allows for ease of use and makes uniform application possible
- The sintering temperature requirement was lowered to under 800°C to allow application on diverse materials including zirconia and lithium disilicate
- Available in 16 most commonly used shades



rainbow[™] Paste Stain Condition

Start temp.	Dry time	The rate of heat acceleration	Firing temp.	Mooring time	Vacuum
450℃	8 min.	45°C/min.	790℃	1min.	_

The above schedule is the manufacturer's recommendation for the optimum prothesis fabrication.

Furthermore, the rate of heat acceleration and the temperature maxima must be adjusted according to the furnace specification and the size of the prosthesis.

rainbow[™] Paste Stain Clinical Case 1







Sintering Glazing Final prosthesis

rainbow™ Paste Stain Clinical Case 2







Final prosthesis Sintering Glazing

rainbow™ Paste Stain Shade



rainbow[™] Paste Stain Order Information

Туре	Art. No.	Contents					
Paste Stain Kit	Paste Stain Kit-S (3g) Paste Stain Kit-M (5g) Paste Stain Kit-L (7g)	PS-Yellow PS-yBrown PS-sBlue PS-Ocher PS-rBrown PS-cBlue PS-Orange PS-dBrown PS-White PS-Brown PS-Pink PS-glaze					
Paste Stain Body Kit	Paste Stain Body Kit-S (3g) Paste Stain Body Kit-M (5g) Paste Stain Body Kit-L (7g)	PS-Ocher PS-Pink PS-Body(A) PS-yBrown PS-cBlue PS-Body(B) PS-rBrown PS-White PS-Body(C) PS-dBrown PS-glaze PS-Grey					
Paste Stain Advanced Kit	Paste Stain Advanced Kit-S (3g) Paste Stain Advanced Kit-M (5g) Paste Stain Advanced Kit-L (7g)	PS-Yellow PS-yBrown PS-sBlue PS-Body(A PS-Ocher PS-rBrown PS-cBlue PS-Body(B) PS-Orange PS-dBrown PS-White PS-Body(C) PS-Brown PS-Pink PS-glaze PS-Grey					

Veneering porcelain for zirconia substructure

- Harmonized coefficient of thermal expansion with zirconia minimizes the possibility of cracking
- Can express a huge diversity of color shade while delivering an excellent esthetic due to the superb opalescent and flourescent effect
- Natural-looking prosthesis production is possible with such a simple build-up procedure
- The special treatment to the powder creates high viscosity even when mixed with just distilled water, offering high user convenience



rainbow[™] Porcelain Physical & Chemical Properties

The results of physical and chemical properties of rainbow $^{\text{m}}$ Porcelain are measured in accordance with ISO and KFDA standard, and suitable to all of these standards.

Properties	Unit	Results	ISO standard
CTE¹¹ (25~500℃)	10 ⁻⁶ /°C	9.3	± 0.5
Glass transition temperature	°C	570	± 20
Chemical solubility	μg/cm²	1.5	≤ 100
Radioactivity	Bq/g	0.0003	≤ 1.0
Average particle size	μm	30±3	-

¹⁾ CTE: Coefficient of thermal expansion

rainbow™ Porcelain Firing Schedule

Firi	ng	Start temp.	Dry time	Heating rate	High temp.	Holding time	Vacuum
Liner	firing	500℃	8 min	45°C/min	930℃	1 min	Full
Margin	firing	500℃	6 min	45°C/min	940℃	1 min	Full
1 st Body	y firing	500°C	8 min	45°C/min	910℃	1 min	Full
2 nd Bod		500°C	6 min	45°C/min	890℃	1 min	Full
Add-or		500℃	6 min	50°C/min	840℃	1 min	-
	Powder	500℃	6 min	50°C/min	860℃	1 min	-
Glazing	Self	500°C	6 min	50°C/min	860°C	1 min	-

NOTICE

- 1. This firing schedule is just recommended conditions to obtain a good firing result.
- 2. The firing temperature and holding time should be changed according to the condition of your porcelain furnace, and the design and number of bridges.
- 3. The firing temperature of Liner-LNB is 940°C, and it is 10°C higher than Liner-shade.
- 4. It is recommended to heat slowly due to low thermal conductivity of zirconia.

rainbow™ Porcelain Opal Effect

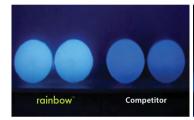






The dental enamel reflects the short wavelength blue portion of light, transmits warm, long wavelength orange-colored light, and glows in the transmitted light almost like amber. This phenomenon is caused by tiny water inclusions and impurities. Opal porcelain of rainbow™ Porcelain shows excellent opalescence effect by nano-crystal precipitated in porcelain.

rainbow[™] Porcelain Fluor Effect

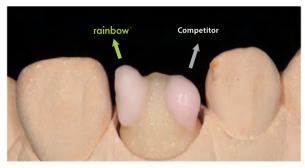






The natural fluorescence emanate from deep inside of the tooth. Ultraviolet light, as electromagnetic radiation from the non-visible spectrum of daylight, stimulates this particular form of luminescence. The ceramic compound that is built up in the inside of the crown is also dosed with additional fluorescing material. By adding special fluor-pigment, rainbow™ Porcelain provides an excellent fluorescence effect and in order to achieve strong fluorescence effect, special porcelains such as Fluor-W and Fluor-T are available.

rainbow[™] Porcelain Excellent Workability





Thanks to special treatment of rainbow™ Porcelain powder using our own technique; it is easy and convenient for build-up fabrication.

rainbow[™] Porcelain Products



Represents basic shading and enhances the bond strength. Includes most fluorescent pigment to increase the fluor effect like natural teeth.



Opacious Dentin

Fills up the insufficient area of pontic or core controls transparency if thickness of dentin is not enough.



Dentin

It is used to make the shape and represent the shade of prosthesis.



Enamel

Porcelain to express the translucent incisal part of teeth.



Translucent

Porcelain to express the more translucency of incisal part.



Opal Effect

Porcelain to express the translucent incisal part of teeth.



Fluor Effect

Porcelain added more fluorescent materials to increase fluor effect.



Cervical

Porcelain to express the deep color of cervical part and sometimes darker shade of dentin porcelain is used.



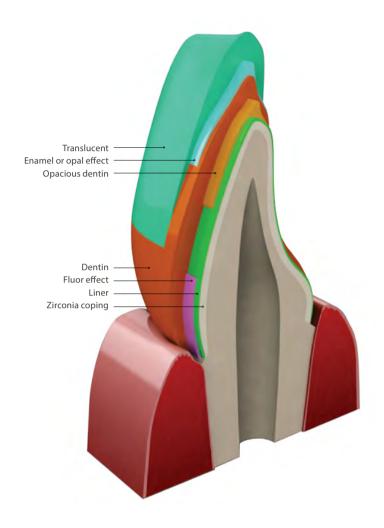
Margin

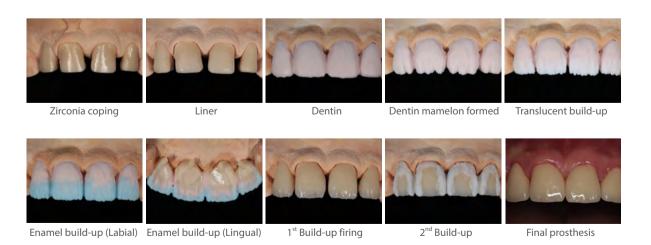
Porcelain to fit precisely with margin adaptation. Controls translucency of margin to enhance esthetics.



Gum

Porcelain to express the color of gum.





rainbow[™] Porcelain Shade Combination Table

Shade (VITA Lumin)	A 1	A2	А3	A3.5	A4	B1	B2	В3	B4
Liner	LN1	LN2	LN3	LN3	LN5	LN1	LN2	LN3	LN4
Margin	MG1	MG2	MG3	MG3	MG5	MG1	MG2	MG3	MG4
Opacious Dentin	ODA1	ODA2	ODA3	ODA3.5	ODA4	ODB1	ODB2	ODB3	ODB4
Cervical	-	CVA+DA2 (1:2)	CVA+DA3 (1:2)	CVA+DA3.5 (1:1)	CVA	-	CVB+DB2 (1:2)	CVB+DB3 (1:1)	CVB
Dentin	DA1	DA2	DA3	DA3.5	DA4	DB1	DB2	DB3	DB4
Enamel	EN2	EN2	EN3	EN3	EN3	EN1	EN2	EN3	EN3
Opal Effect	OE2	OE2	OE3	OE3	OE3	OE1	OE2	OE3	OE3

Shade	Neutral	Yellow	Orange	Brown	Pink	Blue	Grey	Milky
Translucent	TNT	TYL	TOR	TBR	TPK	TBL	TGR	TML

Shade	Yellow	Orange	Brown	Pink	Blue	Grey	White
Dentin Modifier	DM-YL	DM-OR	DM-BR	DM-PK	DM-BL	DM-GR	DM-WT

Glaze & Stain	GLAZE	ST-Yellow	ST-Ocher	ST-Orange	ST-Brown	ST-yBrown	ST-rBrown	ST-dBrown	ST-Pink	
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C 1	C2	C3	C4	D2	D3	D4	A00	AO	B00	ВО
LN1	LN3	LN5	LN5	LN2	LN4	LN4	LNB	LNB+LN1 (1:1)	LNB	LNB+LN1 (1:1)
MG1	MG3	MG5	MG5	MG2	MG4	MG4	MG1	MG1	MG1	MG1
ODC1	ODC2	ODC3	ODC4	ODD2	ODD3	ODD4	ODW	ODW	ODW	ODW
-	CVC+DC2 (1:2)	CVC+DC3 (1:1)	CVC	CVD+DD2 (1:2)	CVD+DD3 (1:1)	CVD	-	-	-	-
DC1	DC2	DC3	DC4	DD2	DD3	DD4	DA00	DA0	DB00	DB0
EN2	EN3	EN3	EN3	EN2	EN3	EN3	EN1	EN1	EN1	EN1
OE2	OE3	OE3	OE3	OE2	OE3	OE3	OTR	OE1	OTR	OE1

Shade	Shade Light Pink		Dark Pink		
Gum	GLP	GNP	GDP		

Shade	White	Trans
Fluor Effect	FLUOR-W	FLUOR-T

Shade	Body	Trans
Add-on	ADD-B	ADD-T

ST-Lila	ST-sBlue	ST-cBlue	ST-Black	ST-Grey	ST-White	ST-A	ST-B	ST-C
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rainbow[™] Porcelain Units

Туре	Color	Unit	Contents		
Liner	7	50g	LNB, LNT, LN1, LN2, LN3, LN4, LN5		
Opacious Dentin	17	50g	ODA1, ODA2, ODA3, ODA3.5, ODA4, ODB1, ODB2, ODB3, ODB4, ODC1, ODC2, ODC3, ODC4, ODD2, ODD3, ODD4, ODW		
Dentin	20	50g	DA1, DA2, DA3, DA3.5, DA4, DB1, DB2, DB3, DB4, DC1, DC2, DC3, DC4, DD2, DD3, DD4, DA00, DA0, DB00, DB0		
Enamel	3	50g	EN1, EN2, EN3		
Translucent	8	50g	TNT, TYL, TOR, TBR, TPK, TBL, TGR, TML		
Opal & Fluor Effect	6	50g	OTR, OE1, OE2, OE3, FLUOR-W, FLUOR-T		
Dentin Modifier	7	50g	DM-YL, DM-OR, DM-BR, DM-PK, DM-BL, DM-GR, DM-WT		
Cervical	4	50g	CVA, CVB, CVC, CVD		
Margin	5	50g	MG1, MG2, MG3, MG4, MG5		
Gum	3	50g	GLP, GNP, GDP		
Add-on	2	50g	ADD-B, ADD-T		
Glaze & Stain	18	3g	GLAZE, ST-Yellow, ST-Ocher, ST-Orange, ST-Brown, ST-yBrown, ST-rBrown, ST-dBrown, ST-Pink, ST-Lilac, ST-sBlue, ST-cBlue, ST-Black, ST-Grey, ST-White, ST-A, ST-B, ST-C		

rainbow[™] Porcelain Special Liquids

Liquid	Unit	Description
Liner Liquid	10ml, 100ml	Liquid for painting liner porcelain uniformly on zirconia coping
Build-Up Liquid	10ml, 100ml	Liquid for body build-up
Margin Liquid	10ml, 100ml	Liquid for making sharp edge of margin
Glazing Liquid	10ml, 100ml	Liquid for painting glaze and stain uniformly

rainbow[™] Porcelain Professional Kit

Туре	Color	Unit	Contents
Liner	7	10g	LNB, LNT, LN1, LN2, LN3, LN4, LN5
Opacious Dentin	17	10g	ODA1, ODA2, ODA3, ODA3.5, ODA4, ODB1, ODB2, ODB3, ODB4, ODC1, ODC2, ODC3, ODC4, ODD2, ODD3, ODD4, ODW
Dentin	20	10g	DA1, DA2, DA3, DA3.5, DA4, DB1, DB2, DB3, DB4, DC1, DC2, DC3, DC4, DD2, DD3, DD4, DA00, DA0, DB00, DB0
Enamel	3	10g	EN1, EN2, EN3
Translucent	8	10g	TNT, TYL, TOR, TBR, TPK, TBL, TGR, TML
Opal & Fluor Effect	6	10g	OTR, OE1, OE2, OE3, FLUOR-W, FLUOR-T
Dentin Modifier	7	10g	DM-YL, DM-OR, DM-BR, DM-PK, DM-BL, DM-GR, DM-WT
Cervical	4	10g	CVA, CVB, CVC, CVD
Margin	5	10g	MG1, MG2, MG3, MG4, MG5
Gum	3	10g	GLP, GNP, GDP
Add-on	2	10g	ADD-B, ADD-T
Liquid	4	10ml	Liner Liquid (1), Build-Up Liquid (2), Margin Liquid (1)

rainbow™ Porcelain Advanced Kit

Туре	Color	Unit	Contents
Liner	4	10g	LNB, LN1, LN2, LN3
Opacious Dentin	4	10g	ODA2, ODA3, ODB2, ODB3
Dentin	4	10g	DA2, DA3, DB2, DB3
Enamel	4	10g	EN2, EN3, OE2. OE3
Translucent	4	10g	TNT, TOR, TBL, TML
Cervical	2	10g	CVA, CVB
Margin	2	10g	MG2, MG3
Glaze & Stain	1	3g	Glaze
Liquid	4	10ml	Liner Liquid (1), Build-Up Liquid (1), Margin Liquid (1), Glazing Liquid (1)

rainbow[™] Porcelain Intro Kit

Туре	Color	Unit	Contents
Liner	2	10g	LNB, LN2
Opacious Dentin	1	10g	ODA2
Dentin	1	10g	DA2
Enamel	2	10g	EN2, OE2
Translucent	2	10g	TNT, TOR
Glaze & Stain	1	3g	GLAZE
Liquid	2	10ml	Liner Liquid, Build-Up Liquid

rainbow[™] Porcelain Stain Kit

Туре	Color	Unit	Contents
Glaze & Stain	18	3g	GLAZE, ST-Yellow, ST-Ocher, ST-Orange, ST-Brown, ST-yBrown, ST-rBrown, ST-dBrown, ST-Pink, ST-Lilac, ST-sBlue, ST-cBlue, ST-Black, ST-Grey, ST-White, ST-A, ST-B, ST-C
Liquid	1	10ml	Glazing Liquid

rainbow[™] CAD/CAM System





rainbow[™] Scanner Prime

- · 2.0 MP camera resolution
- · Super speed USB 3.0 interface
- · Structured light tech (Accuracy <10μm)
- · Wide scan area & deep depth of scan field
- · Articulator compatibility
- $\cdot \text{White light scanning system} \\$
- \cdot Convenient scan jig accessary

Scan type	White light technology
Camera resolution	2.0 Mega pixels (Twin-Camera)
Scan time	Single: 29 sec, 4-Bridge: 103 sec
Accuracy	≤10µm
Interface	USB 3.0
File format	Open STL
Scan area (W X D X H)	80 X 60 X 60 mm
Dimensions	28 X 40 X 45 cm
Weight	15 kg



White light scanning



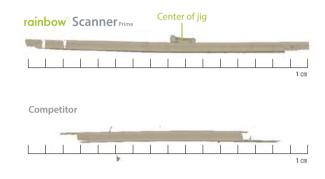
EXOCAD (CAD software)



2.0 MP Camera resolution



Wide scan area & Deep depth of scan field



Convenient scan jig accessary



rainbow™ Scanner offers precise and accurate scanning capability and reliable performance. The doorless entry accessibility makes the setting up of the scan-jig fast and easy. The open STL file format enables compatibility of various CAD software. Increased speed and highly accurate scanning of 3D data are possible due to the perfect synchronization between cameras and pattern projection device, and data processing technology.

Dentium's diverse implant system library, as well as other implant systems' library provides convenience of prosthetic design.



Dentium

rainbow[™] Mill

- \cdot Diverse design and precise production with simultaneous 5-axis milling system
- · Equipped with a spindle, allowing highly precise and fine machining
- · Enhanced convenience with user-focused interface
- · Provides space-efficient by intergrated design dust collector

Material	Zirconia, PMMA, Wax
Milling time	Single: 15 Min, 3Br: 45 Min
Control axis	Simultaneous 5-axis
Spindle	60,000 rpm, 250W
Motion drives	All servo motors
Tool posts	7 posts (Automatic changes)
Milling type	Dry processing
Dimensions (W x D x H)	71 x 81 x 170 cm
Weight	280 kg

Fast milling speed & Stable milling quality





Automatic tool change & Broken tool detection system



User friendly touch interface



Built-in dust collector



High-precision spindle



High precision & Stiffness parts for maximum durability



hyperDENT (CAM software)



rainbow™ Mill can undercut and mill various shapes freely and precisely with the simultaneous 5-axis milling system. rainbow™ Mill offers a reliable performance with high torque and fast movement due to the mounting of high performance servo motors. By adopting the high speed and the 1µm precision spindle, the low vibration minimizes block chipping. Furthermore, wasting of the materials and time may be minimized, which can be attributed to the self-diagnosis and automatic tool changing system. Among dental milling machines, rainbow™ Mill provides highly precise components and mechanical rigidity. It is now possible to mill various kinds of materials including Zirconia, PMMA, and Wax.



rainbowTM Mill for Clinic

- $\cdot \ \, \text{Optimized for glass ceramic milling by stable water-cooling control system}$
- · Simultaneous 5-axis milling system optimized for variety of designs
- · High speed and steady quality in milling
- \cdot Tool load and broken detection system
- $\cdot \, \text{Multi NC data loading system}$
- · Easy control and User-friendly interface
- \cdot Simple and elegant design for dental clinic

Material	Glass ceramic, Zirconia, PMMA
Control axis	Simultaneous 5-axis
Spindle	60,000 rpm, 250W
Motion drives	All servo motors
Tool posts	7 posts (Automatic tool change)
Milling type	Wet processing
Dimensions	45 x 71 x 71 cm
Weight	100 kg



Optimized for Glass ceramic, Zirconia, PMMA



Glass ceramic



Zirconia



PMMA

Water-cooling system



Double layered filter, cutting oil insufficiency and filter replacement alarm





Bar & Disk type block can be applied



MNLS function applied (Multi NC data loading system)



7 Tool posts (Automatic change)



High-precision spindle



User friendly touch interface



hyperDENT (CAM software)



Dentium is planning on releasing CAD/CAM System which is not only available to dental labs, but also to dental clinics for chairside use. This same-day prosthesis will increase the satisfaction of clinicians and patients, and we intend to further that benefit by developing more convenient system and comprehensive software through on-going investment in research and development. The rainbow™ Mill for Clinic is an in-practice milling equipment optimized for glass ceramic. It is capable of simultaneous 5-axis milling, delivering prosthesis with high precision.

rainbowTM Mill Bur List

rainbow™ Mill & rainbow™ Mill for Clinic

	No.	Art. No.	Туре	Diameter	Coating
	1	BE3D1-N	Ball Endmill	Ø 1	-
	2	BE3D2-N	Ball Endmill	Ø2	-
~~	3	BE3D0.5-D	Ball Endmill	Ø 0.5	Diamond Coating
	4	BE3D1-D	Ball Endmill	Ø1	Diamond Coating
	5	BE3D2-D	Ball Endmill	Ø2	Diamond Coating
	6	FE3D2-N	Flat Endmill	Ø2	-
	7	GT3D0.6-ED	Grinding Tool	Ø 0.6	Electroplated Diamond
	8	GT3D1-ED	Grinding Tool	Ø 1	Electroplated Diamond
	9	GT3D2-ED	Grinding Tool	Ø2	Electroplated Diamond

rainbow™ Mill - Metal

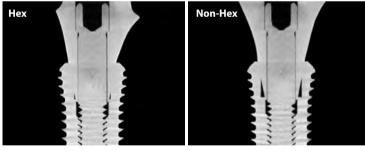
- · Optimized for titanium abutment milling
- · High speed and steady quality in milling
- · Multi NC data loading system
- · Stable water cooling control system
- · Easy control and user friendly interface





Dentium Ti Blank

Optimized for implant products from Dentium



Cross section of Dentium customized titanium abutment & SuperLine FX4510W

Material	Titanium, PMMA, Glass ceramic
Control axis	4 Axis
Spindle	50,000rpm / 0.45kw
Tool position	8
Ti Blank holder	10
Milling type	Wet processing
Dimensions	510 X 718 X 640 mm

Dentium Global Milling Center



Optimized for the implant products from Dentium

Better margin design and control A natural and better emergence profile Superior angulation

- Ti-based zirconia curtomized abutment
- Customized titanium abutment
- Zirconia crown (Full zirconia and build-up crown)
- Surgical guide
- Various restorations work





rainbow™ Dental Lab System

