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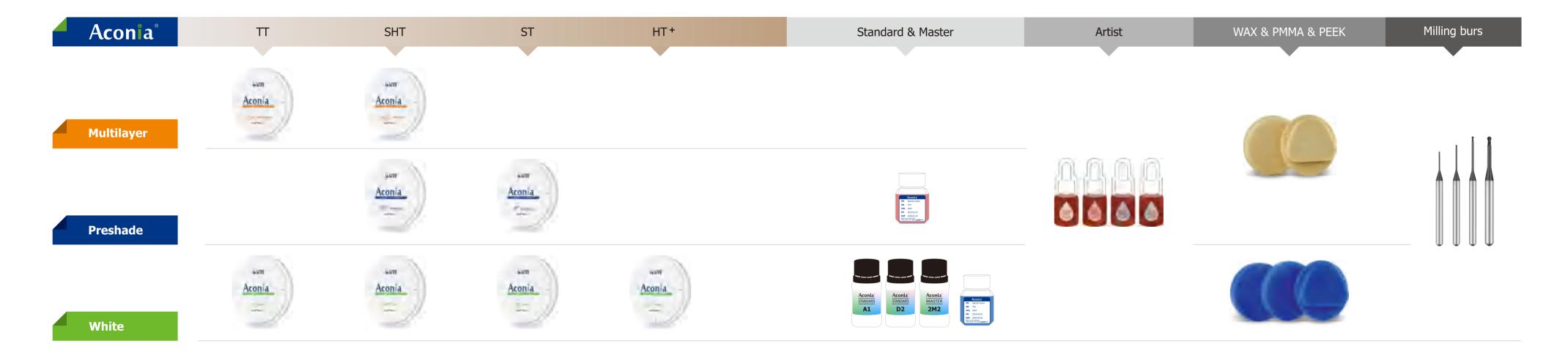








## CAD/CAM MATERIAL





## **INDICATION**

		Veneer	Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3unit)	Full contour bridge (3unit)	Full contour bridge (≤7unit)	Full contour bridge (≤14unit)	Abutment
	<b>TT</b> (3D Multilayer & White)						-86				
НОТ	SHT-ML (3D Multilayer)						•	<b>W0</b> 1	$\wedge$		
	SHT (Preshade & White)						•86	<b>W</b> 00	$\wedge$		
	ST (Preshade & White)						•86	<b>W0</b> 1	$\wedge$	$\wedge$	
UPGRADED	HT+ (White)						•66	<b>W0</b> 1	$\wedge$	$\wedge$	



## **TT-Multilayer**





### TT-ML

### Create the best smile with highest esthetics

- Most natural appearance
- Seamless transition of translucency, strength and shade
- Fast and easy processing
- Creatively maximized efficiency and esthetics





10mm-25mm

Indication					
(	<b>~</b>	•			•00
Veneer	Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)



- Seamless transition, smooth gradient
- Extremely high incisal translucency provides lifelike replication of tooth enamel
- Bionic tooth-growing effect created by Aconia Vitalization Technology

Technical data				
Flexural strength(3-point)	600-900 Mpa			
Translucency	46-49%			
Vickers-hardness HV10	1300±50			
Density	>3 (g/cm³)			
Sintered density	>6.02 (g/cm³)			
Chemical solubility	<50(µg/cm³)			
Radioactivity	<0.1/Bq.g <sup>-1</sup>			
Fracture toughness	>3/(Mpa.m <sup>1/2</sup> )			
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>			



## **SHT-Multilayer**

### Multilayer



### SHT-ML

#### Create the best smile with highest flexibility

- All-in-one & One-for-all
- Seamless gradient in translucency, strength and shade
- Fast and easy processing
- Revolutionarily well-balanced combination of strength and translucency





10mm-25mm

Indication						
	<b>(1)</b>			•00	<b>W</b> 00	$\wedge$
Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)



### **ALL IN ONE**

#### All in One

All technologies integrated to one Aconia masterpieces made in one Multilayer indications applied by one SHT-ML

#### One for All

One SHT-ML to fulfill All your needs

Multilayer to replace all your inventories

Aconia create all your smiles

Technical data				
Flexural strength(3-point)	900-1100 Mpa			
Translucency	43-46%			
Vickers-hardness HV10	1300±50			
Density	>3 (g/cm³)			
Sintered density	>6.02 (g/cm³)			
Chemical solubility	<50(µg/cm³)			
Radioactivity	<0.1/Bq.g <sup>-1</sup>			
Fracture toughness	>5/(Mpa.m <sup>1/2</sup> )			
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>			



Preshade

## **PRESHADE**

### **SHT-Preshade**

Create the best smile with high efficiency



- Excellent strength combined with 46% translucency
- A wide range of indications for full contour restorations
- Reproduce Vita shades perfectly
- Efficient and ideal results

Technical data					
Flexural strength(3-point)	1000±100 Mpa				
Translucency	46%				
Vickers-hardness HV10	1300±50				
Density	>3 (g/cm³)				
Sintered Density	>6.02 (g/cm³)				
Chemical solubility	<50(μg/cm³)				
Radioactivity	<0.1/Bq.g <sup>-1</sup>				
Fracture toughness	>5/(Mpa.m <sup>1/2</sup> )				
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>				



10mm-25mm

			Indication			
•	<b>(1)</b>			•00	<b>W0</b> 1	$\sim$
Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)

## **ST-Preshade**

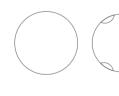
Create the best smile with speed

- Outstanding strength of 1250Mpa combined with ideal translucency
- A wide range of indications for restorations from coping to long-span bridge
- Reproduce Vita shades perfectly
- Stable and reproducible results



Technical data				
Flexural strength(3-point)	1250±100 Mpa			
Translucency	43%			
Vickers-hardness HV10	1300±50			
Density	>3 (g/cm³)			
Sintered Density	>6.02 (g/cm³)			
Chemical solubility	<50(μg/cm³)			
Radioactivity	<0.1/Bq.g <sup>-1</sup>			
Fracture toughness	>5.5/(Mpa.m <sup>1/2</sup> )			
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>			







10mm-25mm

Indication						
			•••	<b>W</b> 00	^	$\cap$
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤ 7unit)	Full contour bridge (≤14unit)



White

## **WHITE**

### TT

#### Create the bright smile: the professional solution

- Highest translucency up to 49%
- Artistic foundation for individualized restoration
- Esthetic alternative to lithium dislicate with double strength



Technic	Technical data					
Flexural strength(3-point)	>700 Mpa					
Translucency	49%					
Vickers-hardness HV10	1300±50					
Density	>3 (g/cm³)					
Sintered Density	>6.02 (g/cm³)					
Chemical solubility	<50(µg/cm³)					
Radioactivity	<0.1/Bq.g <sup>-1</sup>					
Fracture toughness	>3/(Mpa.m <sup>1/2</sup> )					
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>					



10mm-25mm

	Indication						
(	<b>~</b>	•			•86		
Veneer	Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)		

## SHT

#### Create the vivid smile: the cost effective solution

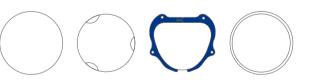
- Outstanding translucency of 46%
- Remarkable strength with reliable durability

- Wide indications for full contour
- Easy and fast coloring



Technical data					
Flexural strength(3-point)	1000±100 Mpa				
Translucency	46%				
Vickers-hardness HV10	1300±50				
Density	>3 (g/cm³)				
Sintered Density	>6.02 (g/cm³)				
Chemical solubility	<50(µg/cm³)				
Radioactivity	<0.1/Bq.g <sup>-1</sup>				
Fracture toughness	>5/(Mpa.m <sup>1/2</sup> )				
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>				





10mm-25mm

Indication							
	<b>W</b>			•00	<b>W0</b> 1	$\wedge$	
Inlay & Onlay	Reduced crown	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	



Aconia Artist

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## **WHITE**

### ST

#### Create the universal smile: the classic solution

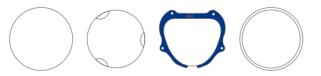
- Strong with good millability
- Attractive translucency with outstanding strength 1250Mpa





- Wide indications from coping to long-span bridge
- Easy and fast coloring

Technical data					
Flexural strength(3-point)	1250±100 Mpa				
Translucency	43%				
Vickers-hardness HV10	1300±50				
Density	>3 (g/cm³)				
Sintered Density	>6.02 (g/cm³)				
Chemical solubility	<50(µg/cm³)				
Radioactivity	<0.1/Bq.g <sup>-1</sup>				
Fracture toughness	>5.5/(Mpa.m <sup>1/2</sup> )				
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>				



10mm-25mm

Indication								
			•00	<b>W0</b> 1	$\wedge$	$\cap$		
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	Full contour bridge (≤14 unit)		

## HT+

Aconia Aconia

### Create the unwavering smile: the economical solution

- The extraordinary strength of 1400Mpa grants a high level of process safety
- Easy veneering & individualizing
- Best option for coping & abutment

Aconia

Aconia TO1



Fracture toughness	>9/(Mpa.m <sup>1/2</sup> )		
CTE	(10.5±0.5)*10 <sup>-6</sup> K <sup>-1</sup>		

Flexural strength(3-point)

Vickers-hardness HV10

Translucency

Sintered Density

Chemical solubility

Radioactivity

Density

Technical data

10mm-25mm

	Indication							
			•00	<b>W0</b> 1	$\wedge$	$\wedge$		
Inlay & Onlay	Full contour crown	Coping	Full contour anterior bridge (3 unit)	Full contour posterior bridge (3 unit)	Full contour bridge (≤7 unit)	Full contour bridge (≤14 unit)	Abutment	



White

>1400 Mpa

1300±50

>3 (g/cm³)

>6.02 (g/cm<sup>3</sup>) <50(µg/cm³)

<0.1/Bq.g<sup>-1</sup>

42%

## **Standard & Master**



50ml



#### 50ml

#### **Standard**

- Precisely matched to VITA\* 16 color system
- Well-suited for both dipping and brushing (paint-on) methods
- Fast-coloring & no color difference between pontic and neighboring crowns
- · Ideal results applied on Aconia white blanks by Aconia Coloring Technology

The terms marked with \* are registered trademarks and/or brand names of the respective companies.



#### Master

- Precisely matched to VITA\* 26 color system
- · Well-suited for both dipping and brushing (paint-on) methods
- Fast-coloring & no color difference between pontic and neighboring crowns
- · Ideal results applied on Aconia white blanks by Aconia Coloring Technology

The terms marked with \* are registered trademarks and/or brand names of the respective companies.



## **Artist**



Artist 20ml

- · Restore realistic, naturally lifelike appearance
- Reproduce rare and special colors
- · Create esthetic art effect
- · Enable individualized customization
- · Start coloring process without preparing and mixing
- Deliver ideal results when applied on Aconia blanks



## **Special colors**

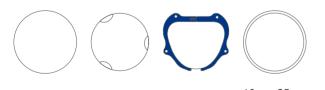




## Wax



- High melting point
- · Burn out completely without residue
- · Compatible for making all male molds of oral tissue



Technical data					
Material	Polymer				
Color	Blue/White				
Density	0.89-0.93g/m <sup>3</sup>				
Drop melting point	106°C				
Shore hardness	50-60 ShoreD				

## **PMMA**



- · Excellent abrasion resistance
- Excellent finishing bright surface & polishing performance
- Excellent long-term shade stability and esthetics
- To fabricate fully and partially long-term temporary crown and bridge



Technical data					
Material	PMMA 100%				
Color	A0 A1 A2 A3 Pink Transparent				
Density	1.19g/m³				
Flexural strength	>125Mpa				
Ash	<0.29%				
Rate of contraction	<0.5%				



## Milling burs

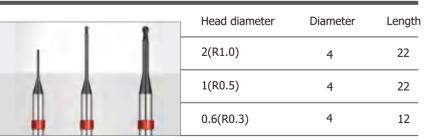




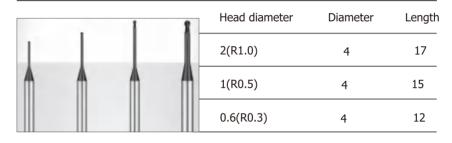
## CAD/CAM BURS: Uncoated & Diamond

- Excellent durability for the milling cutters
- Economical working- cost benefit ratio
- With diamond coating for precise milling results and smooth surfaces.

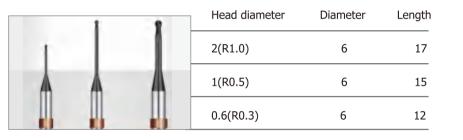
## **BSM** BM-430D/BM-520D



### Roland



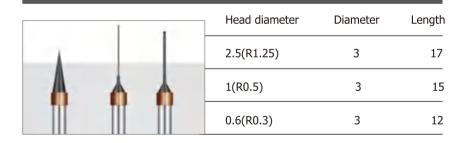
### **Imes-icore** 350i



## VHF K4/K5

1		9	Head diameter	Diameter	Lengt
			2(R1.0)	3	17
A	A	A	1(R0.5)	3	15
-	-	=	0.6(R0.3)	3	12

### Imes-icore 240i/250i





## **BM-430D**



### 4 Axis milling machine

Besmile has ungraded 4 Axis BM-430D dental milling machine with a high-performance open system, which can meet the diverse needs of customers and ensure the long-term stability and accuracy.

- High speed data processing and analyzing NC system
- Compatible processing system
- Max.40,000rpm of the precise motorized spindle
- High-resolution digital servo-control system
- Automatic changing and calibrating of the 4 milling burs
- Visualized processing

### **Technical data**

L*W*H	600mm*470mm*650mm	Weight	70kg
Built-in burs	3 (2mm; 1mm; 0.6mm)	Linkage axis	4
Working Condition			
Voltage / power	220V//850W	Air pressure	>0.5MPa
Temp.	5°C~40°C	Motor type	Step-motor
<b>Processing Category</b>			
Millable material	Zirconium, PMMA, Wax, PEEK etc.	Millable Prosthesis	single crown, long bridge, inlay, onlay, veneering etc.
Milling accuracy	±0.01mm	Automatic tool-length measurement	Positive / √
Cooling system	Air-cooled spindle	Vacuuming system	Mute vacuuming*
Remote assistance	Positive / $\sqrt{}$	Dry milling	Positive / √
Touch-screen control	8" LED touch screen	Wet milling	Negative / X

<sup>\*</sup>match according to customer demand.



## **BM-520D**

## 5 Axis milling machine

The 5 Axis dental milling machine is developed independently by Besmile, which possesses high-precision mechanical structure and high-resolution control system, providing a brand new operation experience for users.

- Stable and reliable performance
- An extensive service-life
- Automatic 4 burs changing system
- Integrative positioning module
- Accuracy up to 5µm of servo-control system
- Real-time monitoring by the sound-sensing alarm
- Remote control & service system

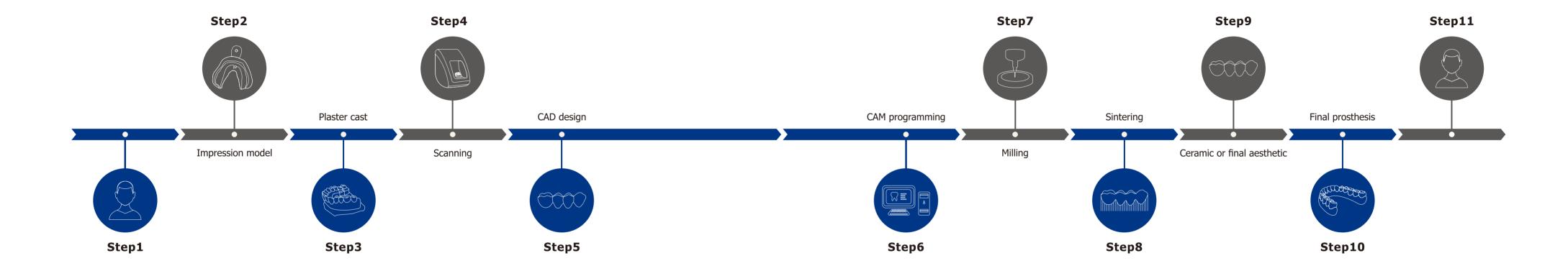


### **Technical data**

L*W*H	680mm*570mm*780mm	Weight	150kg				
Built-in burs	4 (2mm; 1mm; 0.6mm)	Linkage axis	5				
Working Condition							
Voltage / power	220V/3.9Kw	Air pressure	>0.65MPa				
Temp.	5°C~40°C	Motor type	Servo-motor				
<b>Processing Category</b>	Processing Category						
Millable material	Zirconium, PMMA, Wax, PEEK etc.	Millable Prosthesis	Full denture, crowns, bridges, inlays, onlays, veneerings, etc.				
Characteristic parameter							
Milling accuracy	±0.005mm	Automatic tool-length measurement	Positive / √				
Cooling system	Full automatic circulating water-cooled spindle	Vacuuming system	Mute vacuuming*				
Dry milling	Positive / √	Remote assistance	Positive / √				
Wet milling	Negative / X	Touch-screen control	9.7" LED touch screen				

<sup>\*</sup>match according to customer demand.

## **CAD/CAM solution**



Besmile, dedicated in the dental zirconium blanks for dental **CAD/CAM solution**, is committed to delivering the beautiful smiles to dental patients worldwide by using its technology and reliable products together with efforts of dental technicians and dentists.



# Aconia®



**Technology creates the best smile** 



