BSM | Aconia®

ariston dental
better answers

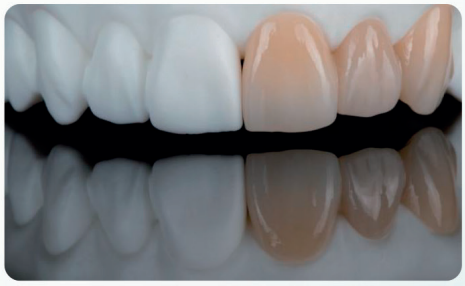
3D Master

Mastering Aesthetics and Function in Perfect Balance

Why Choose 3D Master

Aconia 3D Master, the next generation of Aconia 3D Multilayer, redefines multilayer zirconia with superior performance in aesthetics, function, and stability. It is ideal for the efficient fabrication of monolithic aesthetic crowns to wide-span bridges, including implant-supported long bridges.

Mastering Aesthetics and Function in Perfect Balance



Durability Redefined:
With flexural strength of 800 - 1200 MPa and fracture toughness ≥ 5.8 MPa·m$^{1/2}$, 3D Master ensures reliability for high-load restorations, minimizing fractures and rework.

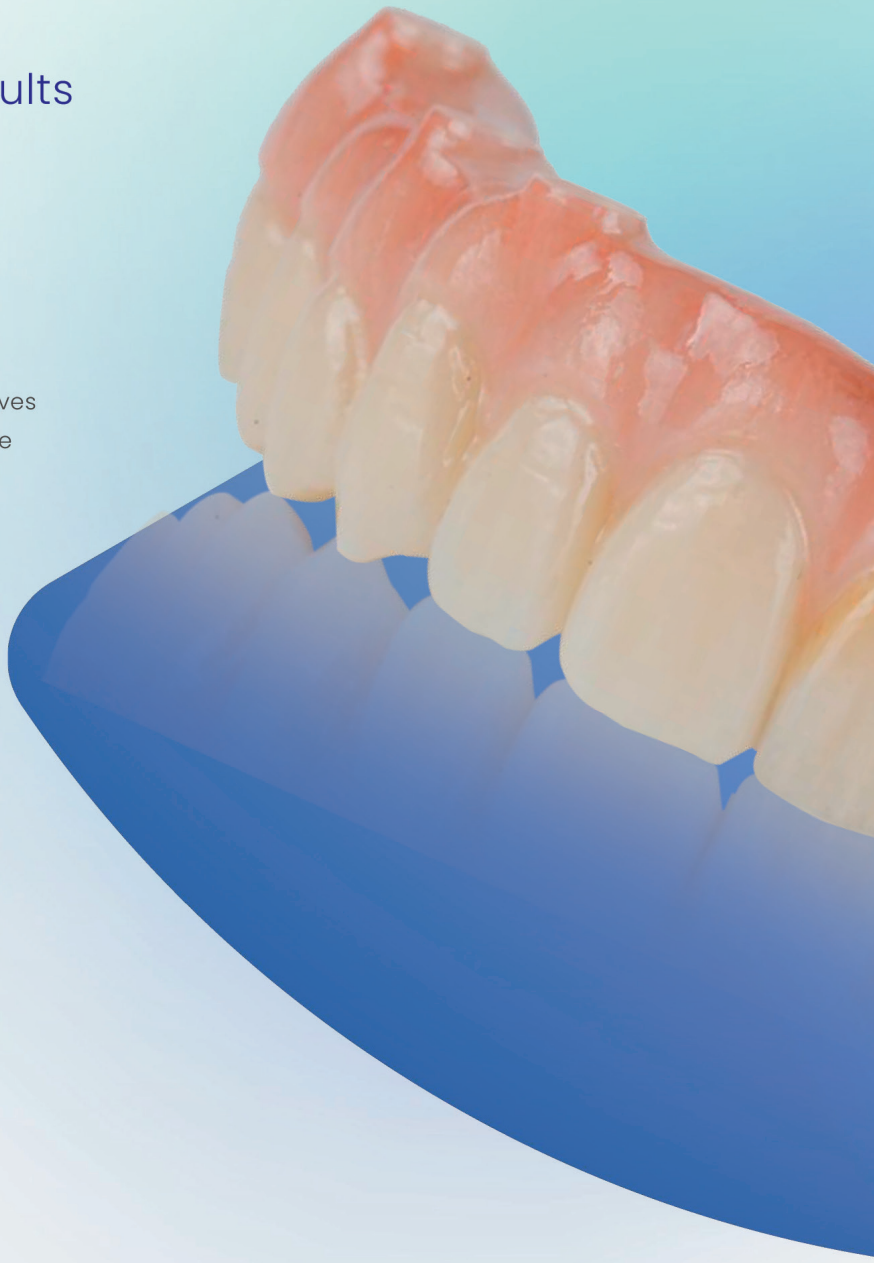
Lifelike Aesthetics:
A seamless gradient in translucency (51%- 43%) replicates the natural beauty of teeth.

Consistent Aesthetic Results

A flexible sintering range of 1520°C to 1560°C gives you the freedom to achieve stable and reliable outcomes every time.

Glaze & Go

No staining needed—accurate shading and a seamless 3D effect guarantee natural-looking restorations.



Peace of Mind

Low deformation and high fracture toughness (≥ 5.8 MPa·m$^{1/2}$) ensure accurate, durable bridges—minimizing fractures and reducing case rework.

Efficient Sintering

It achieves high-speed sintering with the BSM-FC30 and its specific sintering curve—enhancing efficiency and reducing delivery time.

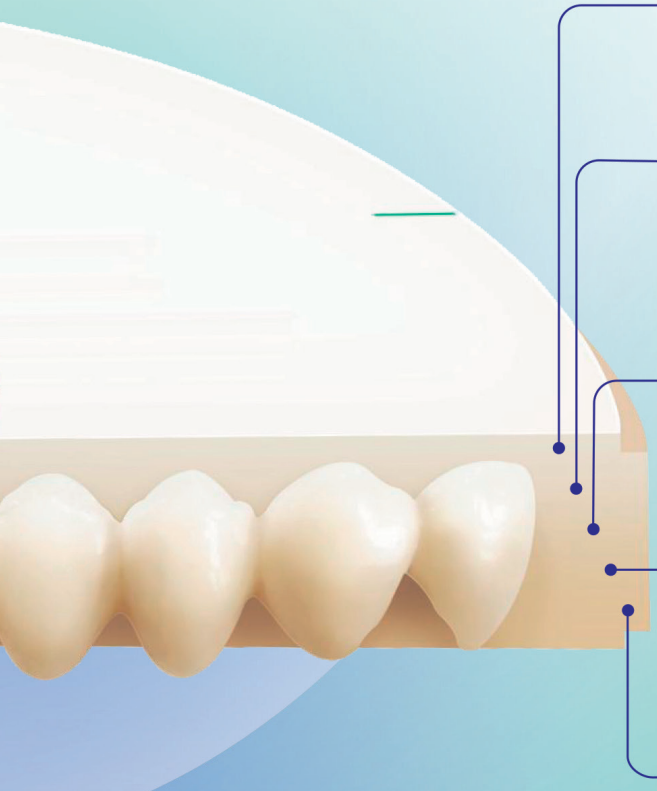
Perfectly Matched Masking Solution

Pair with Aconia VI Opaque Liquid for customized shading solutions that seamlessly mask implant abutments while delivering natural aesthetics.

Aconia 3D Multilayer Technology

Interleaved Layer Structure

Layerless structure with homogeneous inter-layer bond strength.
Seamless gradients in shade, strength, and translucency.



Highly-translucent incisal part 20%

Progressively increased translucency with lifelike aesthetics
Harmonious with the natural tooth

Layer-free transition part① 10%
Layer-free transition part② 10%

Seamless transition from dentin to incisal
Natural shading and translucency towards the incisal area

CAM-friendly dentin part 40%

Easy to nest, free from worries of varying tooth lengths
Perfectly coordinated shade, strength, and translucency

Layer-free transition part③ 10%

Seamless transition from cervical to dentin
Flexural strength gradient towards the cervical area

High-strength cervical part 10%

Ideal stability in the cervical area
Reduced translucency for desired masking effect

Indications

Implant-supported restorations

Veneers

Copings

Full contour crowns

Inlays/Onlays

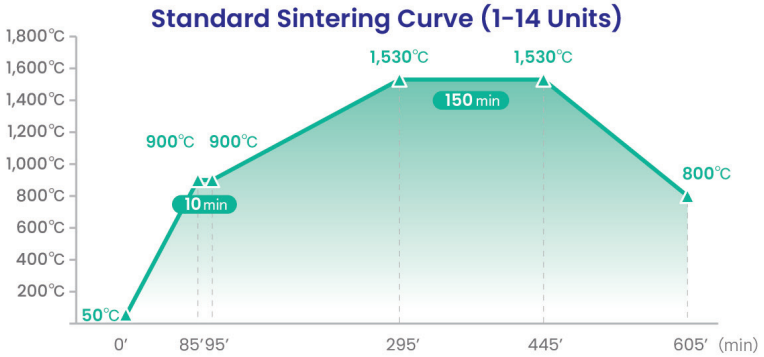
Full contour bridges (⩽14 units)

Technical Parameters

System	98mm , 95mm (customized) etc.
Shade	A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4, 0M1, 0M2, 0M3
Disc thickness(ϕ98.5mm)	12/14/16/18/20/22/25
Flexural strength(3-point)	800-1200MPa
Translucency	43-51%
Vickers-hardness HV10	1250-1350
Sintered density	>6.02 (g/cm³)
Fracture toughness	⩾5.8(MPa.m$^{1/2}$)

Sintering Curve

Standard Sintering Curve (1-14 Units)

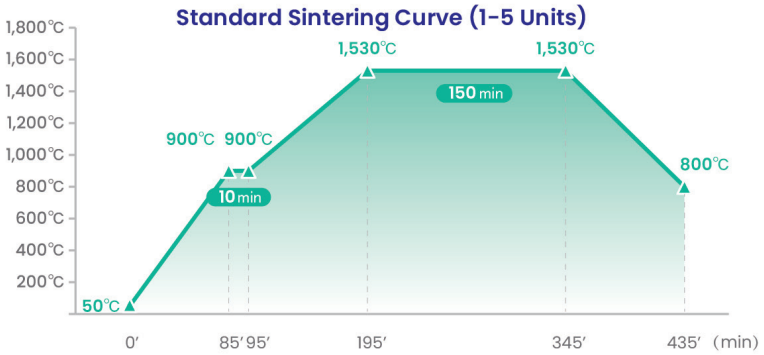


Standard Sintering Parameters (1-14 Units)

Step	Initial temperature(℃)	Final temperature(℃)	Time(min)	Heating rate(℃/min)
1	50	900	85	10
2	900	900	10	Holding
3	900	1530	200	3.15
4	1530	1530	150	Holding
5	1530	800	160	-4.56
6	800	Natural cooling		

*It's recommended to use BSM sintering furnaces in Standard mode.

Standard Sintering Curve (1-5 Units)

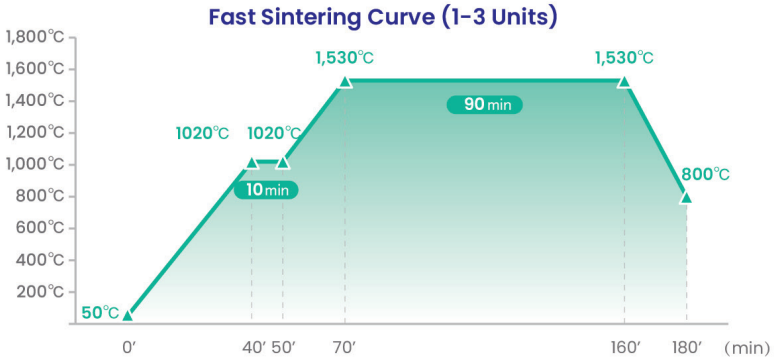


Standard Sintering Parameters (1-5 Units)

Step	Initial temperature(℃)	Final temperature(℃)	Time(min)	Heating rate(℃/min)
1	50	900	85	10
2	900	900	10	Holding
3	900	1530	100	6.3
4	1530	1530	150	Holding
5	1530	800	90	-8.1
6	800	Natural cooling		

*It's recommended to use BSM sintering furnaces in Standard mode.

Fast Sintering Curve (1-3 Units)



Fast Sintering Parameters (1-3 Units)

Step	Initial temperature(℃)	Final temperature(℃)	Time(min)	Heating rate(℃/min)
1	50	1020	40	24.3
2	1020	1020	10	Holding
3	1020	1530	20	25
4	1530	1530	90	Holding
5	1530	800	20	-36
6	800	Natural cooling		

*It's recommended to use BSM sintering furnaces in Standard mode.

Digital Workflow

Unparalleled Efficiency,Unimaginable Ease

Scanning

The BSM intraoral scanner M3 and M5 collects visualized and simultaneous information from the patients within 10 minutes.

Designing

The Smile Cloud design platform (https://www.bsmsmilecloud.com/) will provide the design service you need with fascinating design results.

Selecting Materials

Aconia 3D Master delivers superior performance with excellence in aesthetics and function.

Milling

The BSM-500D is a 5-axis dry milling machine that produces high-precision zirconia restorations with 5μm milling accuracy.

Sintering

The BSM-FC40 zirconia sintering furnace offers fast sintering with a capacity of up to 80 crowns sintered at once.

Finishing

Artamic Stain/Glaze offers a wide range of shades for customization and characterization, delivering aesthetics and quality in restorations.

About Besmile

Besmile is a global digital solutions provider for restorative and implant dentistry.

We offer integrated systems—premium CAD/CAM materials, advanced equipment, and precision implant systems—designed to streamline workflows and ensure reliable results.

All core products are developed and manufactured in-house, ensuring consistent quality and continuous innovation.

Trusted by over 1,000 partners in more than 100 countries, we empower dental professionals to create confident, lasting smiles.

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