



Technology Creates the Best Smile.



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3D Master

Mastering Aesthetics and Function in Perfect Balance

The new generation of Aconia 3D Multilayer

The new generation of Aconia 3D Multilayer perfectly meets all your zirconia needs with innovative raw materials, unique Aconia 3D Multilayer technology, integrated with over 10 years of zirconia R&D and advanced manufacturing. Aconia's proprietary 3D Multilayer technology features a **distinctive interleaved layer structure** with seamless gradients in shade, strength and translucency for a **natural 3D effect**.

✓ Consistent aesthetic results

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



✓ Glaze n' Go!

No stain needed, accurate shading and seamless 3D effect guarantee natural-looking restorations.



2 HOURS

✓ Efficient sintering

High-speed sintering (2 hours) with shorter delivery time



✓ Peace of mind

Low deformation and high fracture toughness ($\geq 5\text{MPa}\cdot\text{m}^{1/2}$) ensure accurate, durable bridges, minimizing fractures and reducing case rework.



Interleaved Layer Structure

Layer-less structure, 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 part ① 10%

Layer-free transition part ② 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 part ③ 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

Aconia 3D Master

Mastering Aesthetics and Function in Perfect Balance

Aconia 3D Master, the next generation of Aconia 3D Multilayer, redefines multilayer zirconia with its superior performance in esthetics, function and stability, making it ideal for the efficient fabrication of monolithic esthetic crowns to wide-span bridges, especially implant-supported long bridges.

51% Translucency

Incisal

800 MPa

43% Translucency

Cervical

1200 MPa



Master level:

Represents the pinnacle of 3D multilayer technology, combining both aesthetic appeal, functional applications and stable performance.



Versatile applications:

Offers a wide range of applications from monolithic esthetic crowns to wide-span bridges, especially ideal for implant-supported long bridges.



High value:

Provides advanced zirconia solutions with superior performance, exceptional aesthetics, and simple processing, creating excellent value for the users.



Digital Workflow

-Unparalleled Efficiency, Unimaginable Ease



Scanning

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



Designing

The Smile Cloud design platform will provide the design service at your needs with fascinating design results.



Material

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 5 µm milling accuracy.



Sintering

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



Finishing

Artamic Stain/Glaze, with its wide range of shade systems, is designed to achieve the desired customization and characterization results for high-quality, esthetic restorations.

Indications



Inlays/Onlays



Veneers



Copings



Full contour crowns



Implant-supported restorations



Full contour bridges (≤14 units)

Technical Parameters

System	98.5mm, 95mm (customized) etc.
Shade	A1,A2,A3,A3.5,A4,B1,B2,B3,B4,C1,C2,C3,C4,D2,D3,D4,OM1,OM2,OM3
Disc thickness (Ø 98.5 mm)	12/14/16/18/20/22/25
Flexural strength (3-point)	800-1200 MPa
Translucency	43-51%
Vickers-hardness HV10	1250-1350
Sintered density	>6.02(g/cm ³)
Fracture toughness	>5.2(MPa.m ^{1/2})

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