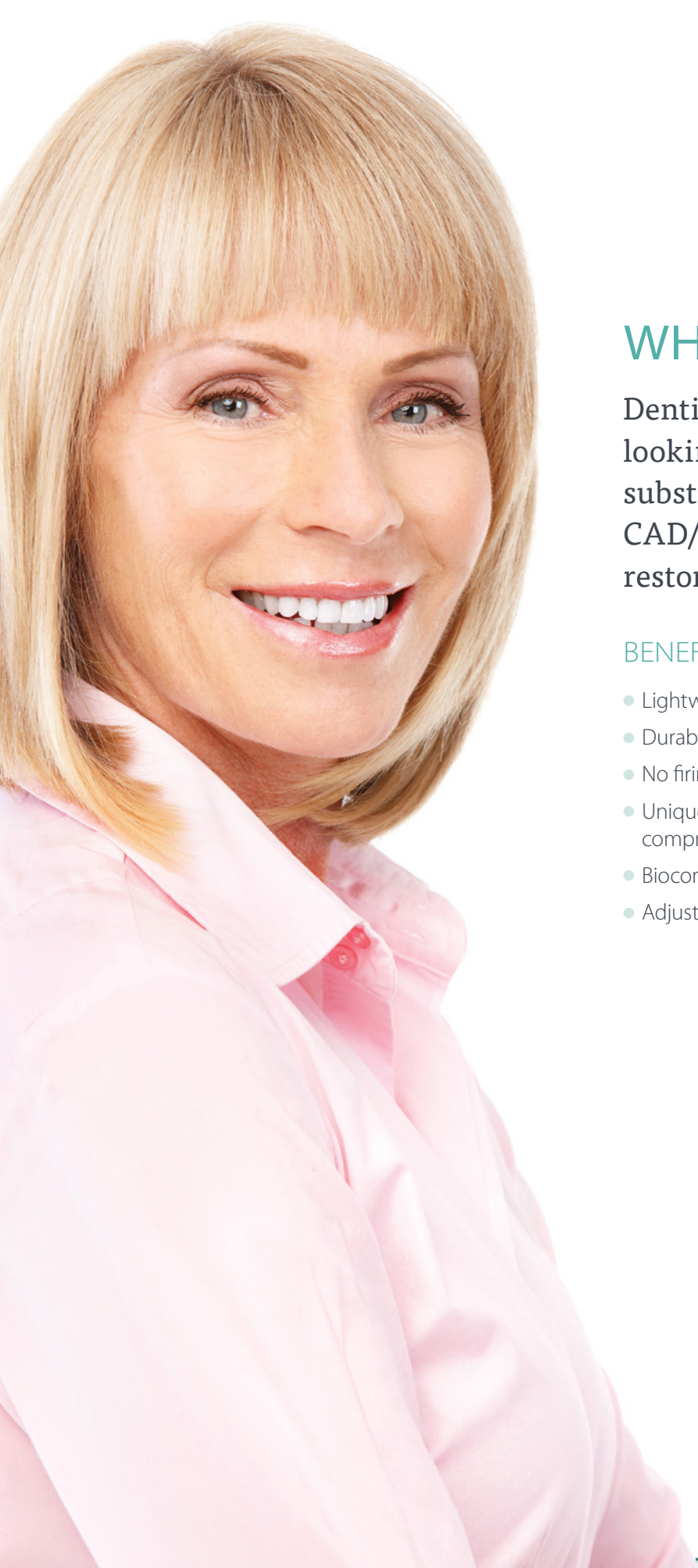
TRINIA™

The ***NEXT GENERATION***
CAD/CAM Material



WHY TRINIA?

Dentists and technicians are looking for alternatives to metal substructures. TRINIA is the CAD/CAM solution for metal free restorations.

BENEFITS INCLUDE

- Lightweight
- Durable and resilient
- No firing required
- Unique mechanical properties with high flexural and compressive characteristics
- Biocompatible
- Adjustable

CLINICAL USE AND APPLICATIONS

TRINIA CAD/CAM discs and blocks are composed of a multi-directional interlacing of fiberglass and resin in several layers. TRINIA is intended to be used by dental technicians and dentists for making copings, substructures or frameworks for permanent and transitional anterior or posterior crowns, bridgework, and substructures that can be either cemented or uncemented restorations, such as telescopic restorations.

Bridges

Partial Dentures

Fixed Prostheses

Fixed Prosthesis Bonded to Metal-Free TRINIA Bar

TECHNICAL DATA

In order to meet the broad indications of clinical use, TRINIA was designed with the appropriate mechanical suitability as well as appropriate aesthetic characteristics. The resulting product has high flexural and compressive strength.

TRINIA™

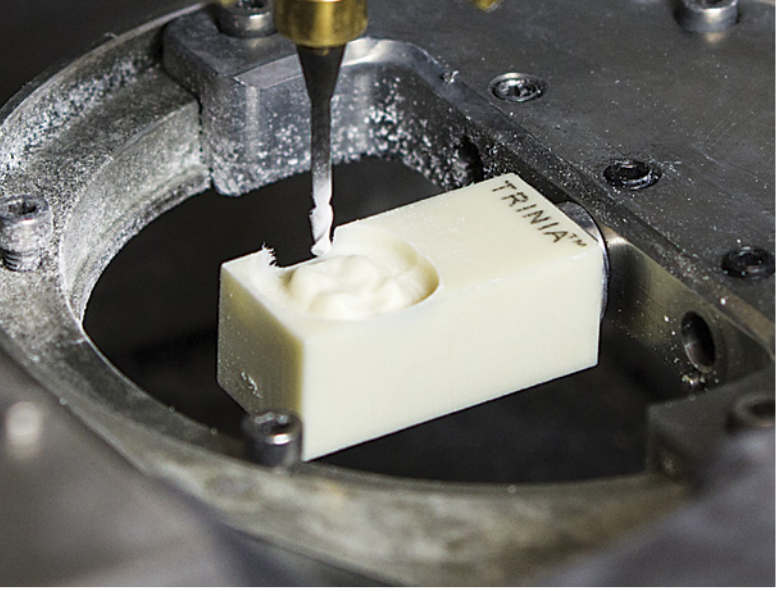
DURABLE AND RESILIENT

Flexural Strength	393 MPa
Flexural Strain at Max Stress	2.7 %
Flexural Modulus of Elasticity	18.8 GPa
Tensile Strength	169 MPa
Compression Strength (Parallel)	347 MPa
Compression Strength (Perpendicular)	339 MPa
Charpy Impact	26 KJ/m^2
Rockwell Hardness (R-Scale)	125 HRR
Barcol Hardness	63
Shore Hardness	92.5
Density / Specific Gravity	1.68 g/cm^3
Water Absorption	.03%
Fracture Toughness	9.7 MPa $m^{1/2}$
Short Beam Shear	49 N/mm^2
Shear Bond Strength to Enamel*	18 MPa
Shear Bond Strength to Dentin*	10 MPa

*With thermocycling using 3M™ RelyX™ Unicem Automix 2.

BIOCOMPATIBLE

ISO 10993-3	Non-mutagenic
ISO 10993-5	Does not induce cytotoxicity
ISO 10993-6	Non-irritant
ISO 10993-10	Non-sensitizer
ISO 10993-11	No adverse physical symptoms after injection



CAD/CAM RECOMMENDATIONS

TRINIA is available in 98mm circular discs, 89mm D-shaped discs, and 40mm and 55mm blocks. TRINIA can be milled on most leading wet or dry milling systems following the appropriate milling strategies. The usage of nano-diamond burs is essential for successful milling.

- Eclipse design for bars
- Minimum 0.7mm wall thickness
- Minimum 7.0mm^2 connector
- Maximum 15mm cantilever

The ***NEXT GENERATION***
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- Metal-Free
- Biocompatible
- Durable
- Lightweight

Part No.	Description	
612-115	TRINIA Disc	98mm x 15mm
612-125	TRINIA Disc	98mm x 25mm
615-115	TRINIA D-Shape	89mm x 71mm x 15mm
613-115	TRINIA Block (2)	55mm x 19mm x 15mm
614-115	TRINIA Block (2)	40mm x 19mm x 15mm

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