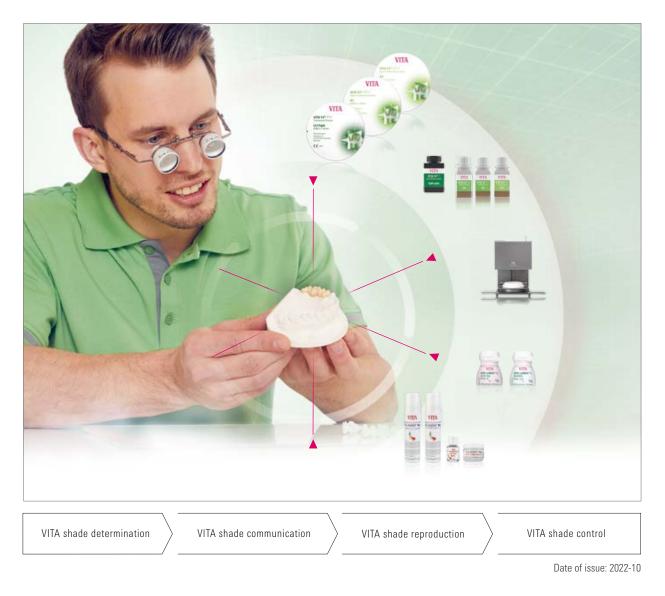
The system solution for precise, efficient and true-to-shade ZrO_2 reconstructions.





VITA – perfect match.



CONCEPT AND BENEFITS

VITA YZ[®] SOLUTIONS is a coordinated material system made of ZrO₂ blanks and the accompanying system components. This enables the precise and accurate shade production of fully / partially veneered and monolithic restorations. Discover the advantages!

Precise and accurate shade match and efficient reconstructions with VITA YZ SOLUTIONS.

What?

What for?

With what?

- VITA YZ SOLUTIONS includes zirconia blanks in four degrees of translucency with matched system components for reliable shade reproduction
- VITA YZ blanks can be used for the production of fully/partially veneered reconstructions and monolithic bridge restorations in the anterior and posterior tooth regions

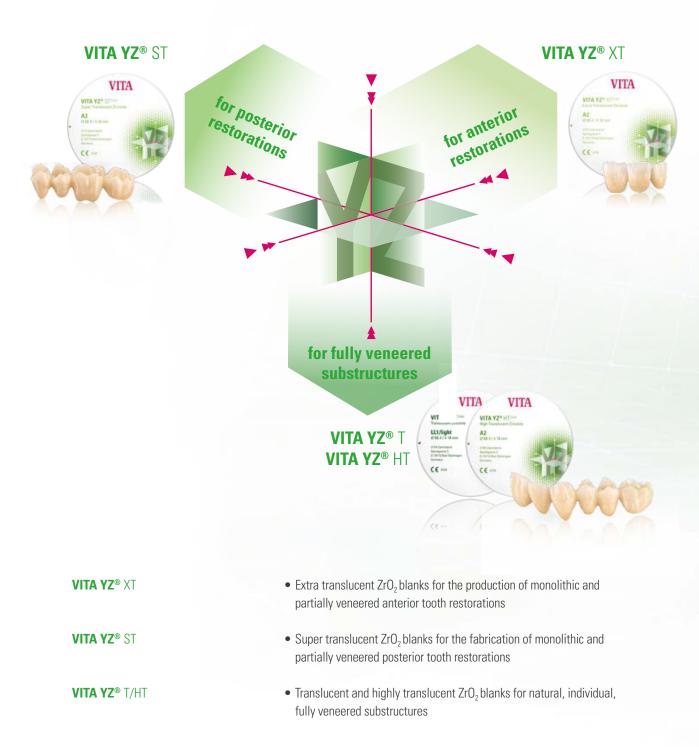
VITA YZ blanks are available in several versions:

- T (Translucent), HT (High Translucent), ST (Super Translucent), XT (Extra Translucent)
- VITA YZ^{White} (unstained), VITA YZ^{Color} (monochromatic, tooth shades), VITA YZ^{Multicolor} (polychromatic, tooth shades)



*) Optional process steps: Coloring is not necessary for pre-colored blanks. Veneering is not necessary in the monolithic restoration design.

IDEAL SOLUTIONS FOR NUMEROUS TYPES OF RESTORATIONS



1. Blanks for numerous indications

2. Blanks for every quality standard



- With the White, Color and Multicolor blank versions, as well as coordinated system components, there is an ideal solution for every esthetic performance class
- With pre-stained tooth shaded blanks (Color, Multicolor), a solid esthetic standard can be efficiently achieved, while reducing the production effort at the same time

THE ADVANTAGES



Highly accurate

Reliable

Efficient

- Create highly accurate restorations using material blanks with edge stability, homogeneous microstructures and tested sintering properties
- Reliably reproduce tooth shades using a material system with ideally matched components
- Achieve efficient, solid and esthetic results, thanks to tooth-shaded, (multi)color blanks with excellent shade matching to the VITA classical shade scale A1–D4[®]

SYSTEMS AND COMPONENTS



- For precise CAM processing of VITA YZ, we work with our CAD/CAM system partners to develop ideally matched milling parameters.
- For the high edge stability of VITA YZ, an optimized pre-sintering process is used in the production of blanks
- For an excellent fit, the sintering behavior of VITA YZ blanks is precisely determined and tested in all three dimensions (X, Y, Z), using measuring technology

RESTORATION CONCEPTS

With **VITA YZ**[®] SOLUTIONS, a broad spectrum of restoration concepts can be implemented. From the highly individual reconstruction to the solid standard restoration, this system offers many esthetic options. Learn more now!

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RESTORATION CONCEPTS – ESSENTIAL STEPS

FULLY VENEERED RESTORATION CONCEPT



1. CAM process



2. Coloring (optional)*





4. Full veneering

PARTIALLY VENEERED RESTORATION CONCEPT



1. CAM process



2. Coloring (optional)*



3. Sintering



4. Partial veneering

MONOLITHIC RESTORATION CONCEPT



1. CAM process



2. Coloring (optional)*



3. Sintering





5. Staining/Glazing



6. Final result



5. Staining/Glazing



6. Final result



4. Staining/Glazing





FACTS AND EVIDENCE

VITA YZ[®]SOLUTIONS is the system for consistent, accurate, true-to-shade reconstructions of excellent quality. Discover the most important facts below.

Create reconstructions with ideal shade matching, fit and durability with VITA YZ SOLUTIONS.

13

THREE REASONS FOR THE RELIABLE REPRODUCTION OF SHADES

1. Ideally matched components for reliable shade reproduction



- is an integrated material system with perfectly coordinated components for the reliable reproduction of the natural play of shade
- includes liquids for coloring, stains and glaze materials for individualizing, veneering ceramics and firing units for stain/sintering firings

2. True-to-shade (Multi)Color blanks for efficient tooth-shaded restoration



VITA YZ® SOLUTIONS

 enables efficient, tooth-shaded restorations, thanks to precolored (Multi)Color blanks with excellent shade matching to the VITA classical shade scale A1–D4[®]

THREE REASONS FOR THE RELIABLE REPRODUCTION OF SHADES

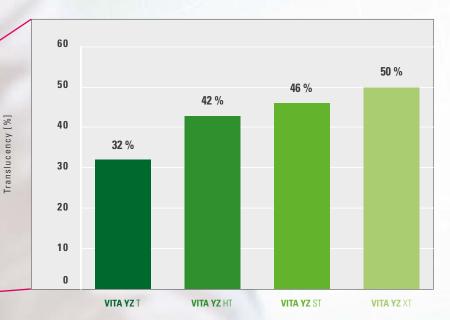
3. Carefully graduated translucencies for a vivid play of light

VITA KZ HIT

TI AT ST

VITA YZ T

VITA YZ XT



Translucency of the different VITA YZ materials

Source: External study, Measuring translucency using a spectrophotometer, Tosoh Corporation, (Technical Report, 08/2017, [1] see back of brochure)

- enables vivid, natural results, thanks to blanks in four carefully graduated translucencies (T, HT, ST, XT)
- achieves a translucency level (50%) with VITA YZ XT blanks that is comparable to traditional glass ceramics, according to measuring technology

TWO REASONS FOR ACCURATELY FITTING RESULTS

1. Precise milling results for an exact marginal fit



VITA YZ T^{Color} (precolored material)



Competitor's zirconia (precolored material)

Source: Internal study VITA R&D; Comparison of edge stability in restorations after CAM processing, (Gödiker, 01/2014, [2] see back of brochure)

- thanks to the high edge stability of the blanks, very precise and accurate fitting restorations are possible, especially in regions with thinly tapering edges
- in the test, exhibits a very good edge precision after CAM processing (crown substructure made of VITA YZ T); however, in the competitor's material, marginal fractures are visible

CONCEPT AND BENEFIT

2. Accurate fitting results, thanks to tested sintering parameters



VITA YZ T



Competitor's ZrO₂

Source: Internal testing, VITA R&D, Visual fitting control following the sintering process using a fitting model for VITA YZ T/competitor, (Gödiker, 10/2014, [2] see back of brochure)

- Enables very accurate results with multi-layered constructions, since the magnification factor is precisely determined using measuring technology
- in the test, exhibits a very good fit after the sintering process; however, the competitor's material, exhibits a poor fit

THREE REASONS FOR OUTSTANDING QUALITY AND DURABILITY

1. 100% German Dental Engineering for VITA ZrO₂ blanks





1. Outstanding material quality

• VITA works exclusively with materials of outstanding purity and quality. For blanks of the best material quality, each new batch of source material is comprehensively tested



2. Tested material parameters

• For an exact fit, the sintering behavior for each new batch of material is precisely determined using measuring technology and is continuously checked



3. Proven production procedure

• To ensure homogeneous sintering behavior, the blanks are made into their basic shape in a uniaxial pressing process and then isostatically compacted



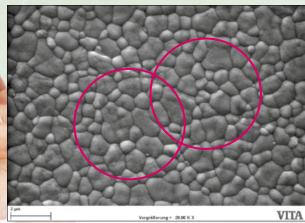
4. Greatest reliability

• Experienced specialists monitor ongoing compliance with the high production and quality standards for mechanical and optical properties

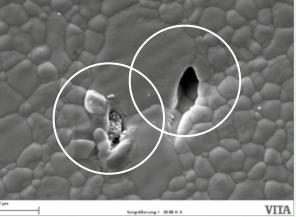
THREE REASONS FOR OUTSTANDING QUALITY AND DURABILITY

2. VITA quality blanks with homogeneous microstructure





VITA YZ at 20,000x magnification

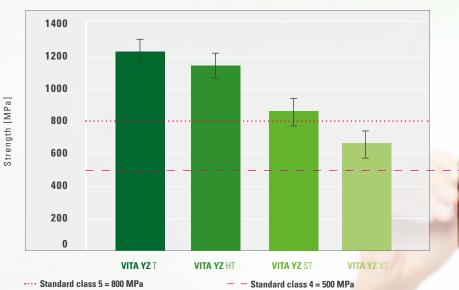


Competitor's zirconia at 20,000x magnification

Source: Internal studay, VITA R&D, SEM image analysis of the structure of densely sintered ZrO_2 samples after polishing and thermal etching, (Gödiker, 11/2014, [2] see back of brochure)

- Thanks to high manufacturing standards, VITA YZ blanks have a homogeneous microstructure without pores or defects, for reliable mechanical properties
- In SEM images, zirconium dioxides with lower quality standards sometimes show impurities, different grain sizes and microstructural defects

3. High resilience for good durability



3-point flexural strength of the different VITA YZ materials

Source: Internal study, VITA R&D, 3-point flexural strength of the different VITA YZ materials according to DIN EN ISO 6872:2015, (Gödiker, 08/2017, [2] see back of brochure)

- thanks to the excellent mechanical strength of the sintered workpieces, good clinical stability can be expected
- In the test series, workpieces show strength values which are sometimes far above the respective standard requirements

SYSTEMS AND COMPONENTS

VITA YZ[®] SOLUTIONS blanks are available in several versions, degrees of translucency and shades. There are matched system components for the blanks. Learn about all the different versions.

Create restorations simply, reliably and efficiently with the components of the VITA YZ SOLUTIONS kit.

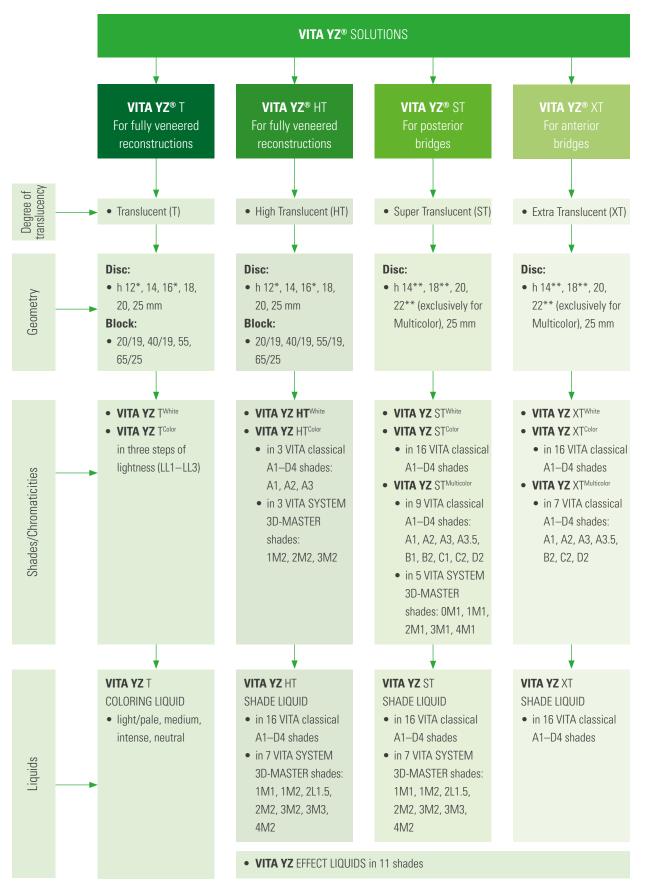
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Overview of system components



Overview of versions, geometries and shades

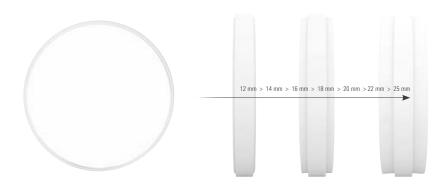


Note: The available range of geometries may differ with individual White and (Multi)Color variants.

*) These geometries are only available as uncolored VITA YZ^{White} versions.

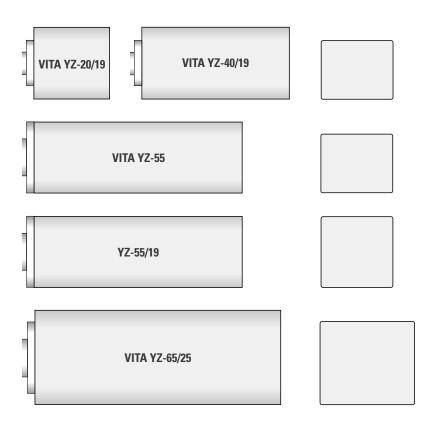
**) VITA YZ^{Multicolor} is only available in: 14, 18, 22 mm

Available blank geometries



Discs (Ø 98.4 mm):

- **VITA YZ** T: h 12*, 14, 16*, 18, 20, 25
- VITA YZ HT: h 12*, 14, 16*, 18, 20, 25
- VITA YZ ST: h 14**, 18**, 20, 22** (exclusively for Multicolor), 25 mm
- VITA YZ XT: h 14**, 18**, 20, 22** (exclusively for Multicolor), 25 mm



Block:

• VITA YZ T: 20/19: 20 x 19 x 15.5 mm; 40/19: 39 x 19 x 15.5 mm; 55: 55 x 15.5 x 19 mm; 65/25: 65 x 25 x 22 mm VITA YZ HT: 20/19: 20 x 19 x 15.5 mm; 40/19: 39 x 19 x 15.5 mm; 55/19: 55 x 19 x 19 mm; 65/25: 65 x 25 x 22 mm

The geometry offering may differ for individual White and (Multi)Color versions.

^{*)} These geometries are only available as uncolored VITA YZ^{white} versions. **) VITA YZ^{Multicolor} is only available in: 14, 18, 22 mm

VITA YZ [®] SOLUTIONS				
Degree of translucency	T Translucent	HT High Translucent	ST** Super Translucent	XT Extra Translucent
ndication*				
	•	•	×	×
	_	0	•	•
4	_	0	•	•
	_	0	•	•
	-	0	•	•
	-	0	•	×
X	0	•	•	•
***	0	•	•	•
	0	•	•	×
	•	•	0	0
	•	•	0	0
	•	•	0	×
	•	•	0	0
177	•	•	0	0
***	•	•	0	×

Recommended indications and esthetic considerations

recommended O possible

🗙 not possible

- not recommended

monolithic posterior restoration





fully/partially veneered anterior restoration 5 fully/partially veneered posterior restoration

*) VITA YZ T, HT and ST are approved for reconstructions on natural tooth stumps and implants. VITA YZ XT reconstructions are approved only for restorations on natural tooth stumps. The material-specific manufacturer's information on minimal wall thicknesses and connector cross-sections must be observed!

**) VITA YZ ST reconstructions are limited in Canada to a max. of six units with a max. of two connected intermediate pontics.

System compatibility

VITA YZ® SOLUTIONS - SYSTEM SOLUTIONS*

VITA offers VITA YZ blanks with a specific holder system for the CAD/CAM system:

• inLab MC XL family and CEREC MC XL family** (Sirona Dental Systems GmbH)

VITA YZ® SOLUTIONS - UNIVERSAL SOLUTIONS*

VITA offers VITA YZ blanks in a universal disc geometry (Ø 98.4 mm) for the CAD/CAM systems:

- CORiTEC line (imes-icore GmbH)
- DMG ULTRASONIC line (DMG Mori AG)
- Röders RXD line (Röders GmbH)
- S&K Impression Series (vhf camfacture AG)
- inLab MC X5 (Sirona Dental Systems GmbH)

*) The range of VITA CAD/CAM material variants/geometries/shades available may vary for individual CAD/CAM system partners or systems.

**) CEREC MC XL applies only for VITA YZ HT, inLab MC XL family for VITA YZ T and VITA YZ HT

Note: VITA YZ DISCs can be processed with all open CAD/CAM systems, which are suitable to mill discs with a diameter of 98.4 mm (including the circumferential groove).

UTTA

Ideal solutions FOR THE TREATMENT WORKFLOW



*) Optional: Coloring with VITA YZ COLORING LIQUID or VITA YZ SHADE LIQUIDs is an optional process step. This is not necessary with precolored YZ blanks.

**) Optional: Veneering with VITA VM 9 is an optional process step and is not necessary for the monolithic restoration concept.

WE ARE HAPPY TO HELP

> More information about the products and processing is also available at www.vita-zahnfabrik.com



Hotline Sales Support

Mrs. Carmen Holsten and her team (Internal Sales Department) will be glad to assist you with orders or questions about the delivery, product data and marketing materials.

Phone +49 (0) 7761 / 56 28 84 Fax +49 (0) 7761 / 56 22 99 8:00 a.m. to 5 p.m. CET E-mail: info@vita-zahnfabrik.com



Technical Hotline

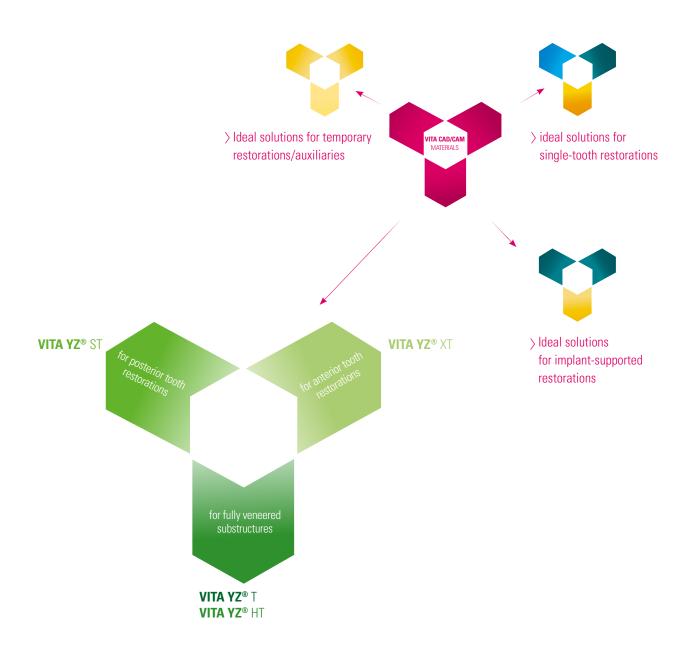
If you have technical questions concerning VITA product solutions, you can contact Dr. Tholey and his Technical Service team.

Phone +49 (0) 7761 / 56 22 22 Fax +49 (0) 7761 / 56 24 46 8:00 a.m. to 5 p.m. CET E-mail: info@vita-zahnfabrik.com

> Additional international contact information can be found at www.vita-zahnfabrik.com/contacts



VITA CAD/CAM MATERIALS - for ideal solutions. Proven a million times over.



> Ideal solutions for monolithic, partially and fully veneered bridges

Practices and laboratories have been relying on VITA CAD/CAM materials for substructure fabrication for more than 15 years. In addition to the proven VITA YZ T/HT zirconias for fully veneered restorations, the range of materials also includes the particularly translucent VITA YZ ST/XT variants for fully anatomical and partially veneered reconstructions. Coloring liquids, stains and veneering ceramics are available for all material solutions – for maximum individuality, matched perfectly and from a single source.

More information about VITA YZ SOLUTIONS

is available at www.vita-zahnfabrik.com/cadcam

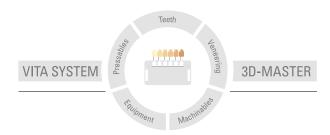
Bibliography:

- 1. Tosoh Corporation, Japan, Technical Report, 2017
- 2. Internal studies, VITA R&D:
- VITA Zahnfabrik H. Rauter GmbH & Co. KG Research and Development Division Spitalgasse 3 79713 Bad Säckingen

Michael Gödiker, engineer, R&D division director, Bad Säckingen Eva Kolb MSc., R&D project manager, Bad Säckingen

For detailed test data, see the technical and scientific documentation VITA $\rm YZ^{\otimes}$ SOLUTIONS

Download at www.vita-zahnfabrik.com/yz



Please note: Our products must be used in accordance with the instructions for use. We accept no liability for any damage resulting from incorrect handling or usage. The user is furthermore obliged to check the product before use with regard to its suitability for the intended area of applications. We cannot accept any liability if the product is used in conjunction with materials and equipment from other manufacturers that are not compatible or not authorized for use with our product and this results in damage. The VITA Modulbox is not necessarily a component of the product. Date of issue of this information: 2022-10

After the publication of this information for use any previous versions become obsolete. The current version can be found at www.vita-zahnfabrik.com

VITA Zahnfabrik has been certified and the following products bear the CE mark $C \in 0.124$.

VITA YZ® T, VITA YZ® HT, VITA YZ® ST, VITA YZ® XT

MD

Acknowledgements

We would like to thank the companies vhf camfacture AG (Ammerbuch, Germany) and imes-icore[®] GmbH (Eiterfeld, Germany) for providing the CAD/CAM systems.

VITA

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