VITA YZ® SOLUTIONS
The system solution for precise, efficient and true-to-shade ZrO₂ reconstructions.

Date of issue: 09.19
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.
**VITA YZ® SOLUTIONS**

**What?**
- VITA YZ SOLUTIONS includes zirconia blanks in four degrees of translucency with matched system components for reliable shade reproduction

**What for?**
- 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

**With what?**
- VITA YZ blanks are available in several versions:
  - T (Translucent), HT (High Translucent), ST (Super Translucent), XT (Extra Translucent)
  - VITA YZWhite (unstained), VITA YZColor (monochromatic, tooth shades), VITA YZMulticolor (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

- **VITA YZ® ST**
  - Super translucent ZrO₂ blanks for the fabrication of monolithic and partially veneered posterior tooth restorations

- **VITA YZ® T**
  - Translucent and highly translucent ZrO₂ blanks for natural, individual, fully veneered substructures

- **VITA YZ® HT**

- **VITA YZ® XT**
  - Extra translucent ZrO₂ blanks for the production of monolithic and partially veneered anterior tooth restorations
  - Super translucent ZrO₂ blanks for the fabrication of monolithic and partially veneered posterior tooth restorations

- **VITA YZ® T/HT**
  - Translucent and highly translucent ZrO₂ blanks for natural, individual, fully veneered substructures
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.

VITA YZ® SOLUTIONS

- 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**
  - Create highly accurate restorations using material blanks with edge stability, homogeneous microstructures and tested sintering properties

- **Reliable**
  - Reliably reproduce tooth shades using a material system with ideally matched components

- **Efficient**
  - 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®
• 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.

Ideal milling strategies, high edge stability and proven sintering behavior ensure accurate, custom-fit reconstructions.
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!
Using coordinated system components such as liquids and stains, to reliably reproduce natural tooth shades.
RESTORATION CONCEPTS – ESSENTIAL STEPS

FULLY VENEERED RESTORATION CONCEPT

1. CAM process
2. Coloring (optional)*
3. Sintering
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

*) Optional process step: Coloring is not necessary for precolored blanks.
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.
THREE REASONS FOR THE RELIABLE REPRODUCTION OF SHADES

1. Ideally matched components for reliable shade reproduction

VITA YZ® SOLUTIONS

- 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
VITA ZY® 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 YZ® SOLUTIONS

- 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

VITA YZ® SOLUTIONS

1. Precise milling results for an exact marginal fit

- 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
2. Accurate fitting results, thanks to tested sintering parameters

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)

VITA YZ® SOLUTIONS

• 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

• 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

Source: Internal study, VITA R&D, SEM image analysis of the structure of densely sintered ZrO2 samples after polishing and thermal etching. (Gödiker, 11/2014, [2] see back of brochure)
3. High resilience for good durability

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)

VITA YZ® SOLUTIONS

- 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.
VITA YZ® SOLUTIONS

Overview of system components

- Coloring with VITA YZ LIQUIDs
- Sintering with VITA ZYRCOMAT 6000 MS / 6100 MS
- Veneering with VITA VM 9
- Characterizing with VITA AKZENT Plus
- VITA Support & Service
**VITA YZ® SOLUTIONS**

Overview of versions, geometries and shades

<table>
<thead>
<tr>
<th>VITA YZ® T</th>
<th>VITA YZ® HT</th>
<th>VITA YZ® ST</th>
<th>VITA YZ® XT</th>
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<tbody>
<tr>
<td>For fully veneered reconstructions</td>
<td>For fully veneered reconstructions</td>
<td>For posterior bridges</td>
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**Degree of translucency**
- Translucent (T)
- High Translucent (HT)
- Super Translucent (ST)
- Extra Translucent (XT)

**Geometry**
- Disc:
  - h 12*, 14, 16*, 18, 20, 25 mm
- Block:
  - 20/19, 40/19, 55, 65/25

**Shades/Chromaticities**
- VITA YZ® T
  - VITA YZ® TWhite
  - VITA YZ® TColor
    - in three steps of lightness (LL1–LL3)
- VITA YZ® HT
  - VITA YZ® HTWhite
  - VITA YZ® HTColor
    - in 3 VITA classical A1–D4 shades: A1, A2, A3
    - in 3 VITA SYSTEM 3D-MASTER shades: 1M2, 2M2, 3M2
- VITA YZ® ST
  - VITA YZ® STWhite
  - VITA YZ® STColor
    - in 16 VITA classical A1–D4 shades
    - in 7 VITA SYSTEM 3D-MASTER shades:
      - A1, A2, A3, A3.5, B2, C2, D2
- VITA YZ® XT
  - VITA YZ® XTWhite
  - VITA YZ® XTColor
    - in 16 VITA classical A1–D4 shades
    - in 7 VITA SYSTEM 3D-MASTER shades:
      - A1, A2, A3, A3.5, B2, C2, D2

**Liquids**
- VITA YZ® T
  - COLORING LIQUID
    - light/pale, medium, intense, neutral
- VITA YZ® HT
  - SHADE LIQUID
    - in 16 VITA classical A1–D4 shades
    - in 7 VITA SYSTEM 3D-MASTER shades:
      - 1M1, 1M2, 21.5, 2M2, 3M2, 3M3, 4M2
- VITA YZ® ST
  - SHADE LIQUID
    - in 16 VITA classical A1–D4 shades
- VITA YZ® XT
  - SHADE LIQUID
    - in 16 VITA classical A1–D4 shades

**VITA YZ® EFFECT LIQUIDS in 11 shades**

Note: The available range of geometries may differ with individual White and (Multi)Color variants.
*) These geometries are only available as uncolored VITA YZWhite versions.
**) VITA YZSTWhite 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 22.5 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 22.5 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 YZWhite versions.
**) VITA YZMulticolor is only available in: 14, 18, 22 mm
### Recommended indications and esthetic considerations

<table>
<thead>
<tr>
<th>Degree of translucency</th>
<th>T Translucent</th>
<th>HT High Translucent</th>
<th>ST** Super Translucent</th>
<th>XT Extra Translucent</th>
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- ● recommended
- ○ possible
- × not possible
- — not recommended

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1. VITA YZ T, HT and ST are approved for reconstructions on natural tooth stumps and implants.
2. 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!
3. 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).
VITA YZ® SOLUTIONS

Ideal solutions FOR THE TREATMENT WORKFLOW

• For digital shade determination, use VITA Easyshade V, and for traditional shade determination, the VITA Linearguide 3D-MASTER, for example.

• Various geometries, translucency and chroma levels of VITA YZ blanks are available for CAD/CAM fabrication.

• For manual coloring of the milling results, use the VITA YZ COLORING LIQUID (T) or the respective VITA YZ SHADE LIQUIDS (HT/ST/XT).

• Sinter the restoration made of VITA YZ with the VITA ZYRCOMAT 6000 MS/6100 MS sintering furnaces.

• For particularly esthetic results, use the VITA veneering ceramic VITA VM 9, which is adapted to zirconia.

• To characterize VITA YZ, use the VITA AKZENT Plus stains/glazing materials.

• Fire the restoration made from VITA YZ with the VITA VACUMAT 6000 M firing furnace.

• Use the recommended polishing set for VITA YZ.

• Secure the zirconia restoration with full adhesive or self-adhesive using VITA ADIVA LUTING SOLUTIONS.

*) 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
Mr. Udo Wolfner and his team (Internal Sales Department) will be glad to assist you with orders or questions about the delivery, product data and marketing materials.

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8:00 a.m. to 5 p.m. CET
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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 temporary restorations/auxiliaries

Ideal solutions for single-tooth restorations

Ideal solutions for implant-supported restorations

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.
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: 09.19

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 € 0124:

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

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.