VITA MFT®
Easy to set up, reliable in function and esthetics

VITA shade determination  VITA shade communication  VITA shade reproduction  VITA shade control

Date of issue: 02.20

VITA – perfect match.
CONCEPT AND BENEFITS

**VITA MFT®** provides solid standard prosthetics that help you reproduce natural esthetics and function easily and efficiently.
intuitive and simple
optimized for function
natural appearance
time-efficient
VITA MFT are denture teeth made of HC polymer for solid, standard prosthetics that enable efficient and reliable reproduction of shape, shade and function. Recommended especially for full and partial dentures.

What?
- VITA MFT are denture teeth made of HC polymer for solid, standard prosthetics that enable efficient and reliable reproduction of shape, shade and function.

What for?
- For routine laboratory processes and predictable prosthetic results. Recommended especially for full and partial dentures.
THE ADVANTAGES

Simple setup
- Setup is easy and intuitive, according to the cogwheel principle through function-optimized occlusal surface design

Solid esthetics
- Achieve secure, solid, esthetic results thanks to natural appearance and shape

Reliable shade reproduction
- Reproduce tooth shades reliably thanks to good shade accuracy with VITA shade standards
THE VITA MFT®-COGWHEEL PRINCIPLE FOR ALMOST AUTOMATIC OCCLUSION

The VITA MFT cogwheel principle

- simplifies the setup of dentures by predefining contact points for almost automatic occlusion
- provides a high degree of setup reliability through function-optimized occlusal surfaces for a controlled centric occlusion
- enables a high degree of standardization thanks to consistently reproducible contact relationships
KONZEPT UND VORTEILE

1. simple tooth positioning
2. self-finding occlusion principle
3. almost automatic occlusion

functionally optimized
VITA MFT enables

- **the reliable production of solid, esthetic prosthetics**
  thanks to natural incisal edge characteristics and angle features

- **simple replication of a natural play of light**
  thanks to a balanced enamel-dentine relationship, integrated mamelons and texture

- **reliable shade reproduction**
  through good shade accuracy with the VITA shade standards
natural appearance
TIME-SAVING PROSTHETIC MANUFACTURING

VITA MFT

- for simple, rapid tooth selection thanks to a compact, clearly arranged tooth assortment
- can be used for all current prosthetic concepts thanks to multifunctional occlusal surface design
- for reduced grinding work thanks to optimized basal design
simple wax setup

time-efficient
CLINICAL EXAMPLES

With VITA MFT®, dental laboratories can achieve reliable prosthetic results with esthetics and function for high patient satisfaction. See for yourself!
CASE STUDY 1: FULL PROSTHETIC RESTORATION *

1. Initial situation: Insufficient restoration.

2. Reproduction of the initial situation in resin for new setup.

3. New tooth setup on resin base of the initial situation.

Image source: Darius Northey, Dental Technician, Buderim, Australia

CASE HISTORY 2: FULL PROSTHETIC RESTORATION *

1. Initial situation: Insufficient restoration.

2. Esthetic and function templates articulated according to average values.

3. Setup of the anterior teeth in relation to the esthetic template of the lower jaw.

Image source: Vladimir Madyudya, Dental Technician / Dr. Vladimir Orlovskyi, Vinnytsia, Ukraine (Images 1 – 4, 6), Marita Heeren, Oldenburg, Germany (Image 5)

*) You can find the complete patient case study at www.vita-zahnfabrik.com/MFT
1. Initial situation: Insufficient restoration.

3. Setup of the anterior teeth in relation to the esthetic template of the lower jaw.

4. Setup on center of the jaw ridge in the lower jaw (green points = lingual margin).

5. Finalized and polished prosthetic restoration.

6. Final, integrated restoration in the patient’s mouth.

4. Final setup in the articulator.

5. Finalized and polished full denture.

6. Final, integrated, full prosthetic restorations.

4. Setup on center of the jaw ridge in the lower jaw (green points = lingual margin).

5. Finalized and polished prosthetic restoration.

6. Final, integrated restoration in the patient’s mouth.
FACTS AND FEATURES

Solid material quality and tested fabrication procedures characterize VITA MFT® denture teeth. In testing, VITA MFT® displays good shade accuracy and good mechanical resistance. Learn more now!
1. Solid material quality
For good durability

The proven VITA HC polymer material (Highly Cross-Linked Polymer) has a highly cross-linked matrix of MMA and cross-linked monomers. Thanks to its high cross-linking, this polymer material demonstrates good mechanical stability and surface resistance.

2. German dental development
For solid prosthetic results

VITA MFT is developed by German engineers (Bad Säckingen, Germany) in collaboration with dental technicians worldwide. The tooth design fulfills all key requirements of shape, shade and function. The occlusal surfaces — designed according to the cogwheel principle — enable an almost automatic occlusion for the efficient and reliable fabrication of dentures.
3. Tested fabrication procedures
For consistently reliable quality

To guarantee consistently high quality, the manufacturing procedure for VITA MFT is tested and certified according to EN ISO 13485. The teeth are fabricated by specially trained personnel, according to German quality standards of production and design. In this way, a high level of production and process mastery is ensured and maintained.
**EXCELLENT SHADE ACCURACY TO THE SHADE GUIDE**

**Shade match with VITA classical A1–D4® shade standard***

<table>
<thead>
<tr>
<th>Tooth lines</th>
<th>Acceptance threshold value</th>
</tr>
</thead>
<tbody>
<tr>
<td>TruExpression</td>
<td>2.74</td>
</tr>
<tr>
<td>Basic 6</td>
<td>2.2</td>
</tr>
<tr>
<td>VITA MFT</td>
<td>1.81</td>
</tr>
</tbody>
</table>

**Specification of the investigated tooth lines***:
- TruExpression, Geometry: 42F
- Basic 6, Geometry: A 10
- VITA MFT, Geometry: T46

*) Note: The results only allow an initial statement about the trend, as shades can deviate, depending on the geometry and production batch of the respective tooth line.

**VITA MFT**

- **enables reliable shade reproduction**
  thanks to good shade accuracy with the VITA classical shade scale A1–D4®

- **shows the ideal shade match on average in the test for A1, A3 and C3**
  of all investigated anterior tooth lines

- **ensures patient-focused restoration**
  thanks to natural and appropriate tooth shades
GOOD MECHANICAL RESISTANCE

Vita MFT, TruExpression, Basic 6, Kaijing, ACRY LUX, Ivostar

Vickers hardness (HV)

Graphic: The results graph shows the mean values from the three measurements for each tooth line. In the test machine, three hardness indentations were applied to polished and embedded tooth sections with a test force of 5 Newton (N) for 30 seconds. After measuring the indentation diagonals, the hardness was calculated in megapascals (MPa). This test was carried out in accordance with ISO 6507-1.

Source: Internal study, VITA R&D, Report 04/18 [2], see back of prospectus.

Specification of the tested tooth lines:
- Vita MFT, Geometry: S50; TruExpression, Geometry: 62 G; Basic 6, Geometry: L06; Kaijing, Geometry: C4 M; ACRY LUX, Geometry: L4; Ivostar, Geometry: 34

Vita MFT

- achieves a good value in the Vickers hardness test in a comparison group with a comparable level of hardness overall
- a high level of mechanical resistance can be expected thanks to the cross-linked matrix made from MMA and cross-linked monomers
SYSTEM AND COMPONENTS

**VITA MFT®** is available in a compact and economical assortment. Use the coordinated system components for efficient denture production.
### SHADES AND MOULDS

#### Upper Anteriors

<table>
<thead>
<tr>
<th>Shade</th>
<th>O40</th>
<th>O44</th>
<th>O49</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D</td>
<td>A1</td>
<td>A2</td>
<td>A3</td>
</tr>
<tr>
<td>MFT</td>
<td>10.3</td>
<td>10.3</td>
<td>10.3</td>
</tr>
<tr>
<td>MASTER</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
</tr>
</tbody>
</table>

#### Lower Anteriors

<table>
<thead>
<tr>
<th>Shade</th>
<th>L33</th>
<th>L34</th>
<th>L37</th>
<th>L37LN***</th>
<th>L40</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D</td>
<td>A1</td>
<td>A2</td>
<td>A3</td>
<td>A3,5</td>
<td>A3</td>
</tr>
<tr>
<td>MFT</td>
<td>10.3</td>
<td>10.3</td>
<td>10.3</td>
<td>10.3</td>
<td>10.3</td>
</tr>
<tr>
<td>MASTER</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
</tr>
</tbody>
</table>

#### Posterior

<table>
<thead>
<tr>
<th>Shade</th>
<th>PU29 – PL29</th>
<th>PU31 – PL31</th>
<th>PU33 – PL33</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D</td>
<td>9.0</td>
<td>9.6</td>
<td>10.3</td>
</tr>
<tr>
<td>MFT</td>
<td>10.3</td>
<td>10.3</td>
<td>10.3</td>
</tr>
<tr>
<td>MASTER</td>
<td>11.6</td>
<td>11.6</td>
<td>11.6</td>
</tr>
</tbody>
</table>

#### Available shades

<table>
<thead>
<tr>
<th>VITA 3D-MASTER*</th>
<th>VITA classical A1–D4**</th>
</tr>
</thead>
<tbody>
<tr>
<td>0M1**</td>
<td>–</td>
</tr>
<tr>
<td>0M3</td>
<td>–</td>
</tr>
<tr>
<td>1M1 (~B1)*</td>
<td>2L1.5 (~B2)*</td>
</tr>
<tr>
<td>2M1</td>
<td>A1</td>
</tr>
<tr>
<td>2L1.5 (~B2)*</td>
<td>3L1.5 (~C2/D4)*</td>
</tr>
<tr>
<td>2M2 (~A2)*</td>
<td>3L2.5 (~B3)*</td>
</tr>
<tr>
<td>3L2.5 (~B3)*</td>
<td>3M2 (~A3)</td>
</tr>
<tr>
<td>3M2 (~A3)</td>
<td>3R2.5 (~A3,5)*</td>
</tr>
<tr>
<td>3R2.5 (~A3,5)*</td>
<td>4M2 (~A4)*</td>
</tr>
<tr>
<td>5M1 (~C4)*</td>
<td>D3</td>
</tr>
</tbody>
</table>

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* The specified VITA MFT classical shades represent the best possible approximation to the 13 VITA 3D-MASTER shades

** Tooth shade 0M1 only with VITA MFT Anterior

*** L37LN tooth geometry with longer tooth neck
### RECOMMENDED COMBINATIONS AND INDICATIONS

<table>
<thead>
<tr>
<th>Upper jaw (UJ) / Lower jaw (LJ)</th>
<th>Anterior</th>
<th>Posterior</th>
</tr>
</thead>
<tbody>
<tr>
<td>UJ / No. mm</td>
<td>LJ / No. mm</td>
<td>VITA MFT mm</td>
</tr>
<tr>
<td>O40 40.0</td>
<td>L33 32.6</td>
<td>PU29 28.8</td>
</tr>
<tr>
<td>O44 43.9</td>
<td>L34 34.0</td>
<td>PU29 28.8</td>
</tr>
<tr>
<td>O49 49.2</td>
<td>L40 39.5</td>
<td>PU33 33.0</td>
</tr>
<tr>
<td>T41 40.5</td>
<td>L33 32.6</td>
<td>PU29 28.8</td>
</tr>
<tr>
<td>T43 43.3</td>
<td>L34 34.0</td>
<td>PU31 30.6</td>
</tr>
<tr>
<td>T46 46.1</td>
<td>L37 36.8</td>
<td>PU31 30.6</td>
</tr>
<tr>
<td>T49 48.8</td>
<td>L40 39.5</td>
<td>PU33 33.0</td>
</tr>
</tbody>
</table>

### Recommended Indications

- **Full dentures**
- **Partial dentures**
- **Hybrid dentures**
- **Implant-retained dentures**
- **Gerontoprosthesis**

- **Recommended**
- **Possible**

The information contained in the combination table is only intended as a guide and can vary, depending on the patient’s individual situation.
ASSORTMENTS AND STORAGE

VITA MFT mould chart
Handy metal case with all moulds for tooth selection:
- VITA MFT Anterior and Posterior

VITA MFT tooth storage
2S stock:
- 72 sets / 432 anteriors*
- 48 sets / 384 posteriors*

Available in VITA classical A1–D4® and
VITA SYSTEM 3D-MASTER® shades**

*) Note: You will receive the most frequently used moulds and shades with the packaged tooth storage. We are also happy to put together storage systems according to your individual specifications.

**) see available shades

SYSTEM COMPONENTS

Base materials
Manufacturer recommendations

VITACOLL
Adhesion promoter

VITAVM LC
Individualisation

VITAVM CC
Masking/Fixation
For situational/functional moulding, use appropriate impression trays (e.g., from VITA) and impression materials.

For the shade determination of the remaining dentition, use VITA Easyshade V or a VITA shade guide.

Use the VITA mould chart after the model analysis of the tooth shape(s) to select the appropriate VITA denture teeth.

Use appropriate wax and processing tools for the wax setup and chewing simulation.

For a secure bond of VITA denture teeth to the base materials, use the adhesion promoter VITACOLL.

Use the cold/hot polymerisate recommended by VITA for the fabrication of the base, e.g., using an injection or pressure-packing technique.

For fabrication, use suitable polishing instruments, and for individualization, the veneering composite VITA VM LC flow.

* Visual or technical shade determination only takes place if there is any remaining natural dentition.
WE ARE HAPPY TO HELP

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

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If you have technical questions concerning VITA PROSTHETIC SOLUTIONS, you can contact our technical specialists Mr. Ralf Mehlin or Mr. Daniel Schneider.

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

More information about the products and processing is also available at www.vita-zahnfabrik.com
Solid, standard dentures with excellent cost efficiency.

Solid standard dentures at fair prices
VITA BASIC PROSTHETIC offers you HC polymer teeth for the economical fabrication of solid, standard restorations for full and partial dentures at a fair price.
Additional information on VITA MFT can be found at: www.vita-zahnfabrik.com/prosthetics

1. Bibliography
1. Shade measurements for prosthetic teeth, University of Mainz
   Dr. M.Sc. Christopher Igiel, Research Associate,
   Johannes Gutenberg University of Mainz, Polyclinic for Prosthetics,
   Mainz; Report: 04/2018

2. Internal studies, VITA R&D:
   VITA Zahnfabrik H. Rauter GmbH & Co. KG
   Research and Development Division
   Spitalgasse 3
   79713 Bad Säckingen, Germany
   Dr. Stefan Aechtner, Project Manager for Material Development, Bad Säckingen

   For detailed test data, see technical and scientific documentation
   for VITA denture teeth;
   Download via www.vita-zahnfabrik.com/prosthetics

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CE 0124:

VITA MFT®, VITACOLL®, VITAFOL® H, VITAVM® LC and VITAVM® CC

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