

# Digital Dentures: Your Premium Level



## VITA VIONIC® SOLUTIONS

### Your Next Level

Fabricate digital dentures without compromising on natural-looking esthetics, quality and abrasion resistance.



# VITA VIONIC® SOLUTIONS

Your Premium Level.



Are you following the exciting journey of digital dentures? **No matter where you start, VITA VIONIC SOLUTIONS will help you take your milled dentures to the next level – in terms of natural esthetics, impressive material quality and flexible options.**

Natural-looking esthetics and impressive material quality: VITA denture components rank among the highest quality on the market. VITA VIONIC BASE DISC HI boasts an impact-resistant material in four different gingiva shades. VITA VIONIC VIGO denture teeth and VITA VIONIC DENT DISC multiColor allow you to choose from different materials for full and partial dentures that meet the highest standards, in terms of esthetics, functionality and material properties.

Flexible options: The VITA VIONIC Solutions portfolio includes well thought-out solutions for the entire workflow: from digital setup with VITA tooth moulds, to production of partial elements, assembly and finalization. Discover the practical applications for full and partial dentures, such as metal-cast, bar or combined dentures. Benefit from over 100 years of VITA expertise – we will support you on your way to the next level.

[Go to case reports](#)



### Natural-looking esthetics

Thanks to esthetically impressive tooth elements and natural gingiva shades for denture bases.

### Impressive material quality

Proven VITA quality with outstanding functional properties.

### Flexible possibilities

VITA VIONIC materials are suitable for full dentures, as well as removable partial dentures, such as metal-cast and combined dentures.



**“**VITA VIONIC SOLUTIONS materials perfectly complement our workflow, and the quality of digital dentures is equal to that of analog dentures.**”**

**Lukas Wichnalek**  
HIGHFIELD.DESIGN – Zahntechnik Wichnalek  
Germany

# Perfectly matched.

The fit, esthetics and process reliability are perfectly coordinated: milled denture bases and tooth elements in the highest VITA quality.

## VITA VIONIC VIGO

VITA VIONIC VIGO is your specialist when it comes to full digital dentures. Its natural shape and fascinating play of colors make it esthetically pleasing. The dentures are ready when you are: adapted on the base and including preconditioned bonding surfaces.

### Your requirements

- Fabricating full dentures
- Esthetic shade, shape and brilliance of light
- Material that is tailored to the digital workflow
- One method that saves time and is process-reliable without sacrificing any of the quality

## VITA VIONIC DENT DISC

VITA VIONIC DENT DISC multiColor is flexible in its use for partial and full dentures, efficient processing and enjoys impressive material qualities. The integrated shade guide with PERFECT MATCH to the VITA shade guide is also compelling.

### Your requirements

- Fabricating full and partial dentures
- The same impressive material properties as with analog denture teeth
- Efficient workflow for milling denture teeth
- Flexibility for customizing the tooth design to individual patient cases



### 1. CAD process



VITA VIONIC® DIGITAL VIGO  
VITA VIONIC VIGO® Denture Tooth Library

### 2. Milled try-in



VITA VIONIC® WAX

### 3. Milling the final denture base



VITA VIONIC® BASE DISC HI

### 4. Preparing denture teeth



VITA VIONIC VIGO®

OR

### 4. Fabricating tooth elements



VITA VIONIC® DENT DISC  
multiColor

### 5. Bonding teeth in the base



VITA VIONIC® BOND

### 6. Individualizing



VITA AKZENT® LC  
VITAVM®LC flow

1. CAD process

# VITA VIONIC® Denture Tooth Libraries

Time-saving denture setups with seven presets.

**VITA VIONIC VIGO denture tooth libraries:** seven predefined setup concepts are available for designing full dentures using VITA VIONIC VIGO denture teeth. That means that monoblock try-ins and denture bases can be fabricated quickly and easily using conventional open milling and 3D printing systems. The VITA VIONIC VIGO denture tooth can then be inserted easily and accurately. Make the most of the VITA tooth design expertise and the largest selection of setup concepts.

**VITA VIONIC DIGITAL VIGO denture tooth libraries:** the extended version of the VITA Denture Tooth Library also includes an STL data export function for complete denture setups (try-in dentures) or for separate tooth elements and base designs. Depending on preference, dentures fabricated using the multifunctional tooth geometries can be milled from discs or fabricated using a 3D printer. In this way, VITA VIONIC DIGITAL VIGO provides new, flexible options for digital workflows.

// VITA VIONIC tooth databases are the only ones worldwide that include four different occlusion concepts. In addition to the curved variants, there are two straight setup variants. Here I have the unique opportunity to digitally plan and produce well over 80% of my patient cases."

**Urban Christen,**  
Dental prosthetics practice  
Switzerland



## Flexible

Supports the digital setup of partial and full dentures with seven concepts for all bite classes. Can be used with both the VITA VIONIC VIGO denture tooth and with milled or printed restorations.

## Easy

Preset initial suggestions minimize the need for manual reworking.

## Fast

Dentures can be quickly and easily fabricated using a variety of conventional open milling and 3D printing systems.








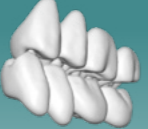



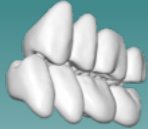



# One database. Endless possibilities.


“ The VITA VIONIC DIGITAL VIGO denture tooth library is fantastic. It saves us about 15 minutes of design time, and that’s a lot! With the design, we establish the foundation for a predictable and smooth workflow. Our recommendation: Everybody should use the VITA library to design digital dentures.”

**Frans Delfos**  
Cordent Group  
the Netherlands

## Your options for denture design

Multifunctional tooth data: seven denture concepts and four bite classes combined in a single library

Occlusal concepts		Occlusal position	Skeletal class
 Bukkal Curved Set up	 Lingual Curved Set up	 Crossbite	 Bite class I
 Bukkal Straight Set up	 Lingual Straight Set up	 Normal bite	 Bite class II/1
 Crossbite	 Dutch Lingualized Occlusion		 Bite class II/2
	 Prof. Dr. A. Gerber		 Bite class III

 New concepts





3. Milling the final denture base

# VITA VIONIC® BASE DISC HI

Impact-resistant PMMA disc for fabricating final denture bases.

**Stable**

The impact-resistant material ensures high stability. This has a positive impact on the durability of the denture base.

**Highly accurate**

The material can be precisely milled in the CAM machine, resulting in an excellent fit to the alveolar ridge, without polymerization shrinkage.

**Pink esthetic**

Available in the four gingiva shades classic pink, classic pink translucent, soft pink and dark pink.



All product data and additional information



2. Milled try-in

# VITA VIONIC® WAX

Dimensionally-stable, temperature-resistant synthetic wax blanks.

**Convenient**

Comfortable wax try-in, thanks to full-format CAD/CAM denture fabrication in wax.

**Precise**

Precise wax setup, thanks to precisely milled moulds based on the digital construction.

**Easy**

Easy opportunity for correction, since the wax setup can be modified during the try-in.



VITA VIONIC® WAX



#### 4. Preparing denture teeth

# VITA VIONIC VIGO®

The specialist for full digital dentures.

**VITA VIONIC VIGO** is the highly esthetic “digital” tooth for full dentures. Thanks to VITA quality, a digitally manufactured denture can meet the same high standards as an analog version. This requires a tooth that supports the digital fabrication process in the best way possible, while meeting high esthetic expectations at the same time.

#### Perfect tooth design and reliable function

- ready for immediate use without preconditioning, wax removal or steaming
- time-saving workflow for higher productivity
- automatic occlusion and guided maximum intercuspation

#### Natural esthetics

- impressive translucency, opalescence and fluorescence
- natural play of light, due to the multifaceted surface structure
- natural, three-dimensional shade gradient

#### Available shades and moulds

- Seven VITA classical A1–D4 including a Bleach shade: 0M1, A1, A2, A3, A3.5, B3, D3
- Eight anterior tooth moulds for the upper jaw, four for the lower jaw
- Four posterior tooth moulds

#### Esthetic

The three-dimensional layered structure of the VITA VIONIC VIGO denture tooth combines translucency, fluorescence and opalescence to create a convincing esthetic appearance.

#### Material quality

The mechanical characteristics of the tooth material distinguish VITA VIONIC VIGO as a VITA premium tooth.

#### Process reliability

Thanks to a tooth design which has been optimized for the digital workflow, VITA VIONIC VIGO helps you save time and work more efficiently.



VITA VIONIC® VIGO



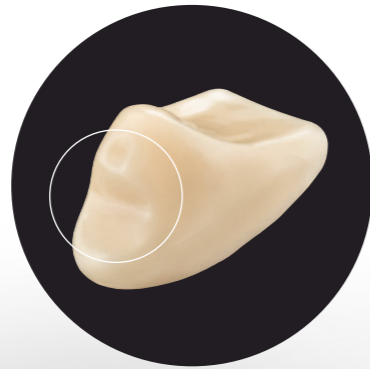
# Simply a perfect fit.

## Perfected tooth design

Reduced tooth dimensions,  
sanded-down cervical area



Cut-back free  
base design

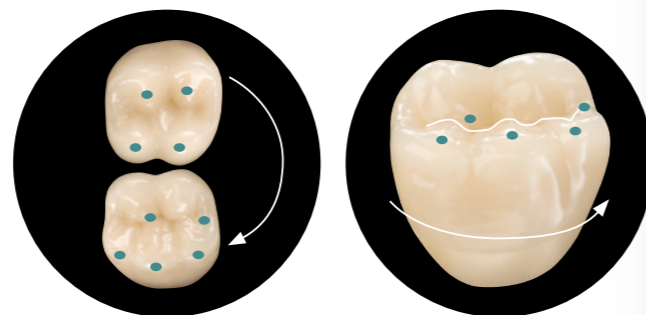


Conical-oval tooth neck shape  
with rotation protection



## Reliable function

- VITA Easy Centric principle so you can work quickly and simply: glides into occlusion automatically, establishing the desired contact relationship
- Covers a variety of setup concepts





# Shape. Shade. Light.

## Natural shape. Fascinating play of colors.

### Shape and texture

Multi-faceted texture



Natural shape

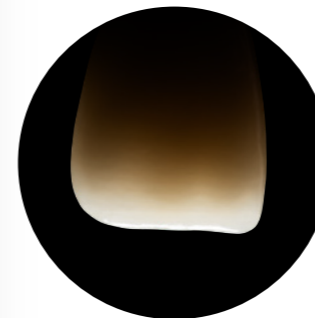


Pronounced palatal ridges

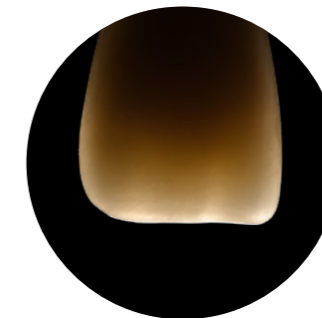


### Dynamics of light

Impressive translucency



Opalescent play of colors



Natural fluorescence



## Mould overview

<b>VITA VIONIC® VIGO</b> Anterior	OK/Nr. mm	<b>R47</b> 47,0	<b>R49</b> 49,0	<b>O45</b> 44,5	<b>T50</b> 49,9	<b>T46</b> 46,2	<b>O43</b> 43,3	<b>T44</b> 44,0	<b>T48</b> 48,3
	UK/Nr. mm	<b>L37</b> 37,2	<b>L39</b> 39,2	<b>L35</b> 35,2	<b>L39</b> 39,2	<b>L37</b> 37,2	<b>L33</b> 33,2	<b>L33</b> 33,2	<b>L37</b> 37,2
<b>VITA VIONIC® VIGO</b> Posterior	OK/Nr. mm	<b>22L</b> 31,8	<b>23L</b> 34,3	<b>22L</b> 31,8	<b>24L</b> 35,9	<b>22L</b> 31,8	<b>21L</b> 30,3	<b>21L</b> 30,3	<b>22L</b> 31,8
	UK/Nr. mm	<b>22L</b> 32,6	<b>23L</b> 35	<b>22L</b> 32,6	<b>24L</b> 36,9	<b>22L</b> 32,6	<b>21L</b> 31	<b>21L</b> 31	<b>22L</b> 32,6



4. Fabricating tooth elements

# VITA VIONIC® DENT DISC multiColor

Composite milling blanks for partial and full dentures.

Flexible use for partial and full dentures, efficient processing and esthetics without compromise: **VITA VIONIC DENT DISC multiColor** offers a natural shade gradient with PERFECT MATCH to the VITA shade guide. Tooth elements from the composite disc feature high abrasion stability.

**Available shades**

- 16 VITA classical A1–D4 and two Bleach shades:  
0M1, 0M3, A1, A2, A3, A3.5, A4, B1, B2, B3, B4, C1, C2, C3, C4, D2, D3, D4

**Available geometries**

- Ø 98.4 mm / h 20 mm

Technology partner  
and validated  
milling machines



VITA VIONIC® DENT DISC



**Material quality**

Abrasion resistant for durable denture teeth.

**Esthetic**

Integrated shade gradient for a more natural effect. Impressive and fast results, thanks to good polishing characteristics.

**Flexibility**

Simple, safe processing. Compatible with all conventional milling systems.






“Milling is currently the best approach to digital denture fabrication. With VITA VIONIC DENT DISC multiColor, impressive esthetics are possible. The transitions between the shade layers are incredibly seamless. Now you can fabricate premium quality, esthetically milled dentures that are just as good as their analog counterparts.”

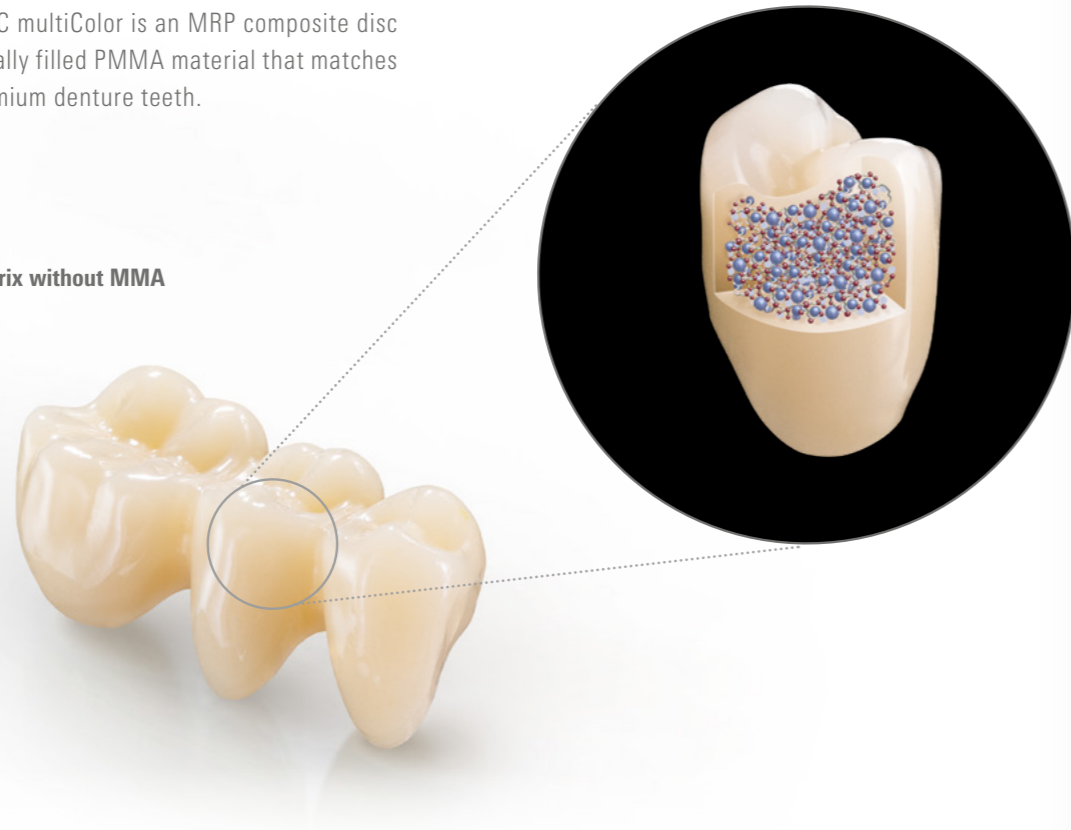
Eelco van Wort  
Dental Design Centrum  
the Netherlands

# Consistently impressive quality.

## Perfected design

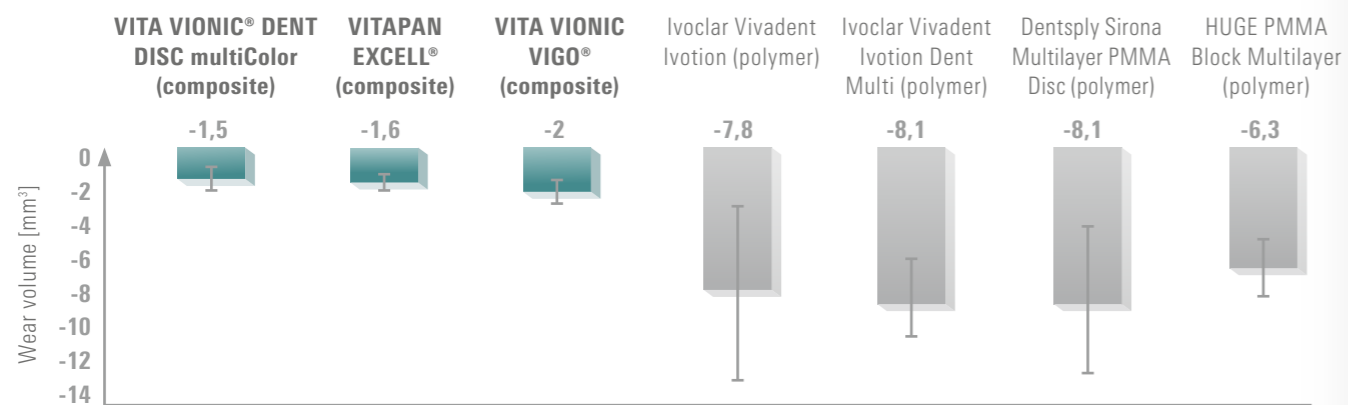
VITA VIONIC DENT DISC multiColor is an MRP composite disc comprised of inorganically filled PMMA material that matches the quality of VITA premium denture teeth.

-  PMMA pearls
-  Silanized fillers
-  Cross-linked matrix without MMA



## Proven quality

Wear volume



Source: Regensburg University Hospital, Polyclinic for Dental Prosthetics, Report No. 2302\_02, 4/2023

# Mimics nature. True-to-shade.

## Integrated shade gradient

VITA VIONIC DENT DISC multiColor replicates natural dentition with a shade gradient covering four levels of chromatic intensity. The impressive esthetics are immediately visible, thanks to the effective polishing characteristics.



“The VITA VIONIC DENT DISC is comparable to the proven VITA premium denture teeth. The polishing result is excellent and the effect is highly individualized, thanks to the shade gradient. As far as I am concerned, the disc is the link that brings the digital and analog approaches in line with one another.”

**Arbnor Saraci**  
HIGHFIELD.DESIGN – Zahntechnik Wichnalek  
Germany





**5.** Bonding teeth in the base

# VITA VIONIC® BOND

Efficient adhesive bonding of denture teeth and tooth elements.

**VITA VIONIC BOND** is a self-curing, two-component bonding system based on MMA, which has a thin consistency for precise application to the bonding surfaces. For a secure bond, VITA VIONIC BOND forms a reactive boundary layer on the adhesive surfaces. The first-class solution for VITA VIONIC dentures.

**The right dosage for your requirements:**

**1. VITA VIONIC BOND KIT**

Sufficient for approx. two applications (bonding 2 x 14 teeth)

- VITA VIONIC BOND I, jar, 2 ml
- VITA VIONIC BOND II, bottle, 1 ml
- Microbrush, three pcs.



**2. VITA VIONIC BOND multiDose COMPLETE KIT**

Sufficient for approx. 25 applications (bonding 25 x 14 teeth)

- VITA VIONIC BOND I multiDose (20 ml)
- VITA VIONIC BOND II multiDose (10 ml)
- 50 pcs. nylon disposable brush tips
- VITA VIONIC BOND multiDose measuring cup, 3 ml; reusable



**Reliable bonding**

The self-curing, two-component system provides for a secure bond.

**Precise, seamless bonding**

A small film thickness in the cavity makes precise, seamless fixation possible.

**Quick and easy**

A fast, clean workflow for a reliable bond.

VITA VIONIC® BOND





6. Individualizing

# VITAVM®LC *flow*

Composite for sealing interdental spaces.

**VITA VM LC *flow*** is a low-viscosity, light-curing veneering composite for permanent and removable restorations for extraoral application. The flowable consistency and high stability enable precise modelling of the composite. The special material composition ensures simple polishing and produces homogeneous surfaces with brilliant high gloss.

In the field of digital dentures, VITA VM LC *flow* is used primarily for the reconstruction of gingival areas. The VITA VM LC *flow* GINGIVA materials were developed especially to reproduce the original gingival situation. The shade spectrum for the materials makes it possible to easily and reliably reproduce the patient's individual gum color. The transparent WINDOW material can then be used to mix the VITA VM LC *flow* materials.

To ensure an optimal transition between denture teeth and base material, the use of VITA VM LC *flow* is recommended for the interdental spaces.

### Precise

The balanced combination of stability and flowability makes precise modeling easy and efficient.

### Natural

Natural-looking gum reconstruction, thanks to a selected shade spectrum of the gingiva material.

### Durable

The material is characterized by its high durability and surface resistance.



VITA VM®LC *flow*



6. Individualizing

# VITA AKZENT® LC

Stain/Glaze system for optional characterization.

**VITA AKZENT LC** are light-curing composite stains for reproducing individual shade effects and applying shade corrections. In addition to offering a variety of nuances, the stain system impresses with precise shade application and good shade and gloss retention.

**VITA AKZENT LC GINGIVA KIT** is ideal for individualizing dental materials that contain polyacrylics. This kit is particularly suitable for denture bases, printed bases made of 3D printing materials and milled bases.

VITA AKZENT LC allows you to customize your prosthesis in detail.

**Reliable:** The numerous brilliant effect shades of the product line make it possible to reproduce all the shade nuances of natural dentition and gingival areas. A wide range of 14 EFFECT STAINS and eight CHROMA STAINS are available, as well as a glaze. The material also has an impressive gloss and resistance to wear and discoloration.

**Simple:** The stains can be precisely applied with brushes. Necessary shade adjustments and natural gingival esthetics can be easily achieved.

**Efficient:** All VITA AKZENT LC line shades have finely tuned viscosities that simplify the workflow. The material can be dosed quickly and safely – whether it is applied as a flat shade or a precise shade effect.

## Reliable

Reliably true-to-life reproduction of shade facets of natural dentition, thanks to a wide range of brilliant effect stains and intuitive processing.

## Easy

Extremely simple shade modification with a brush stroke, thanks to chroma shades for plannable, systematic control of chromaticity and ideal gingiva esthetics.

## Efficient

Efficient processing, thanks to shade effects with pinpoint precision or highly efficient shades applied across a large surface area with ideally matched viscosities.



VITA AKZENT® LC



# Suitable solutions for processes.

## 1. CAD process

VITA VIONIC VIGO and VITA VIONIC DIGITAL VIGO Denture Tooth Library



## 2. Finishing the try-in

VITA VIONIC WAX



## 3. Finishing the final denture base

VITA VIONIC BASE DISC HI



## 4. Preparing denture teeth

VITA VIONIC VIGO



OR

## 4. Fabricating tooth elements

VITA VIONIC DENT DISC multiColor



## 5. Bonding

VITA VIONIC BOND



## 6. Individualizing

VITA AKZENT LC, VITA VM LC flow



# We are happy to help.

## Hotline Sales Support

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VITA Zahnfabrik has been certified, and the following products bear the CE mark

**CE0124**

VITA VIONIC VIGO®, VITA VIONIC® DENT DISC multiColor, VITA VIONIC® BOND, VITAVM®LC flow, VITA AKZENT® LC

gebdi DENTAL-PRODUCTS GmbH has been certified in accordance with the Medical Devices Directive, and the following product bears the CE mark

**CE**

VITA VIONIC® WAX

Dental Direkt GmbH has been certified in accordance with the Medical Device Directive and the following products bear the CE mark

**CE0482**

VITA VIONIC® BASE DISC HI

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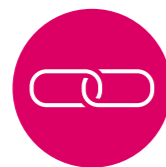
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## References

Regensburg University Hospital,  
 Polyclinic for Dental Prosthetics,  
 Report No. 2302\_02, 4/2023



Additional information at  
 VITA VIONIC SOLUTIONS  
<https://hs.vita-zahnfabrik.com/en/vita-vionic-solutions>



More  
 workflow  
 solutions  
 found here





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