

DD Shade Guide – the **practice-oriented and individual solution** for optimized color determination with the zirconia restoration material of **your choice!** You can carry out the milling and processing steps on the zirconium oxide teeth in your lab and keep the result under control by your laboratory conditions and working method.

#### SET CONTENTS



DD Shade Guide holder (8 or 16)



Sticks and fixation clips  
(number according to colors)



STL data record on USB stick

#### STEP 1: USB STICK

The USB stick contains the STL data record of the color matching tooth.  
Copy the file and import it manually into your CAM software job directory.

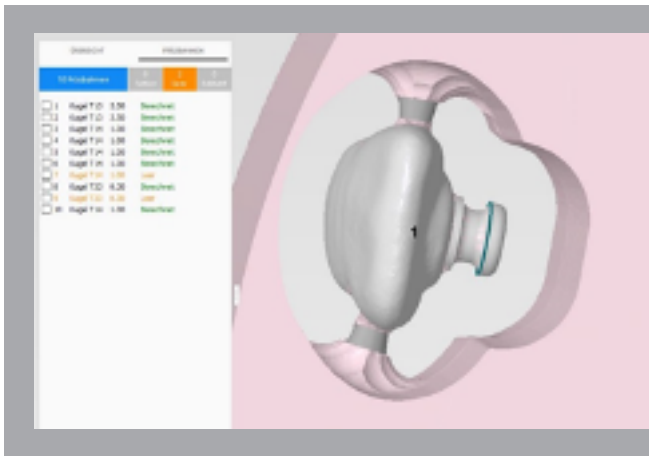
## STEP 2: CAM SOFTWARE PROGRAM

Create the blank including enlargement (or sinter shrinkage) as usual in your CAM software.

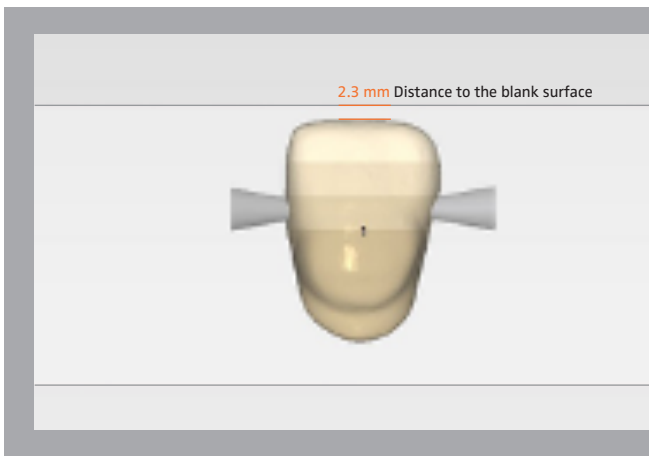
Position the zirconium oxide tooth in the virtual blank.

Use white or monochrome color blanks with a height of 14 mm. For DD multilayer blanks we recommend 18 mm height for an ideal result.

**Example:** Nesting the zirconium oxide tooth in a virtual multilayer blank with color gradient display in DD smart CAM 2.0 by workNC Dental.



Approximal attachment of two holding bars at medium height. Holding bar  $\varnothing$  2.0 mm on the object. Conicity  $10^\circ$  to the blank (enlargement). Vertical nesting at  $90^\circ$  from the vestibular surface. This allows the milling tool to freely approach the „fixing drop“.



Create a DD Shade Guide with our DD Multilayer zirconium oxides, if you pay special attention to the nesting height positioning in your CAM Software.

A good value is a distance of approx. 2.3 mm from the blank surface. Please note that a high positioning leads to a greater brightening. With the highly translucent DD cubeX<sup>2</sup>® and DD cube ONE®, this can also lead to whitening in the body of the tooth.



**Notice:** More information can be found in our nesting recommendation document, which we have provided for you in our download center.

[www.dentaldirekt.de/en/downloads](http://www.dentaldirekt.de/en/downloads)

### STEP 3: FABRICATION OF THE ZIRCONIUM OXIDE TEETH

#### VIDEO

#### Elaboration

Separate the finished milled zirconium oxide teeth from the blank and grind/smooth the holding bars as usual.

The milling tool cannot mill 90° edges and thus leaving a small margin. The ring on the tooth/ the border on the fixing drop must be manually postprocessed and deepened a little.

> click on the picture to play the video



#### Sintering

The crowns are placed on the incisal surface (incisal edge) and the fixation drop (stable stand).

This prevents the crown from falling over during the sintering process (the falling/tilting over can possibly lead to cracks).



**Notice:** Make sure to carry out the sintering process of the zirconium oxide teeth according to our manufacturer's instructions. Please refer to our separate sintering instructions for this.

[www.dentaldirekt.de/en/downloads](http://www.dentaldirekt.de/en/downloads)



#### Coloring

If no precolored blank was used, the teeth must be colored with the liquids from our DD shade concept®.

**Our TIP:** You can set special accents with DD Art Elements effect liquids – not only for white constructions, but also in combination with constructions from DD multilayer blanks.

For example, the use of DD Art Elements blue and/or purple provides a high degree of naturalness in the incisal area of zirconium oxide teeth.



**Notice:** Please refer to our separate instructions for use and the liquid recommendation.

[www.dentaldirekt.de/en/downloads](http://www.dentaldirekt.de/en/downloads)

**STEP 4: FINISHING**

In order to be able to guarantee an optimal shade selection, it is necessary to finalize the zirconium oxide teeth with a glaze firing.

Optionally, you can individualize the zirconium oxide teeth with our DD contrast® stains and textures according to your requirements.



**Note:** Please refer to our separate instructions for use.

[www.dentaldirekt.de/en/downloads](http://www.dentaldirekt.de/en/downloads)

**STEP 5: ASSEMBLING THE DD SHADE GUIDE**

To do this, place the zirconium oxide teeth on the vestibular surface and the sticks on their engraved side.

Then connect the zirconium oxide teeth to the sticks using the fixation clips. Please note the opening of the sticks is placed over the fixing drops on the zirconium oxide teeth.



In order to firmly connect the two parts, the fixation clip is pushed over the fixing drop on the zirconium oxide tooth. In this way, the zirconium oxide tooth can still be rotated in order to be flexible when selecting the shade.