Ivotion Tooth Selection Guide

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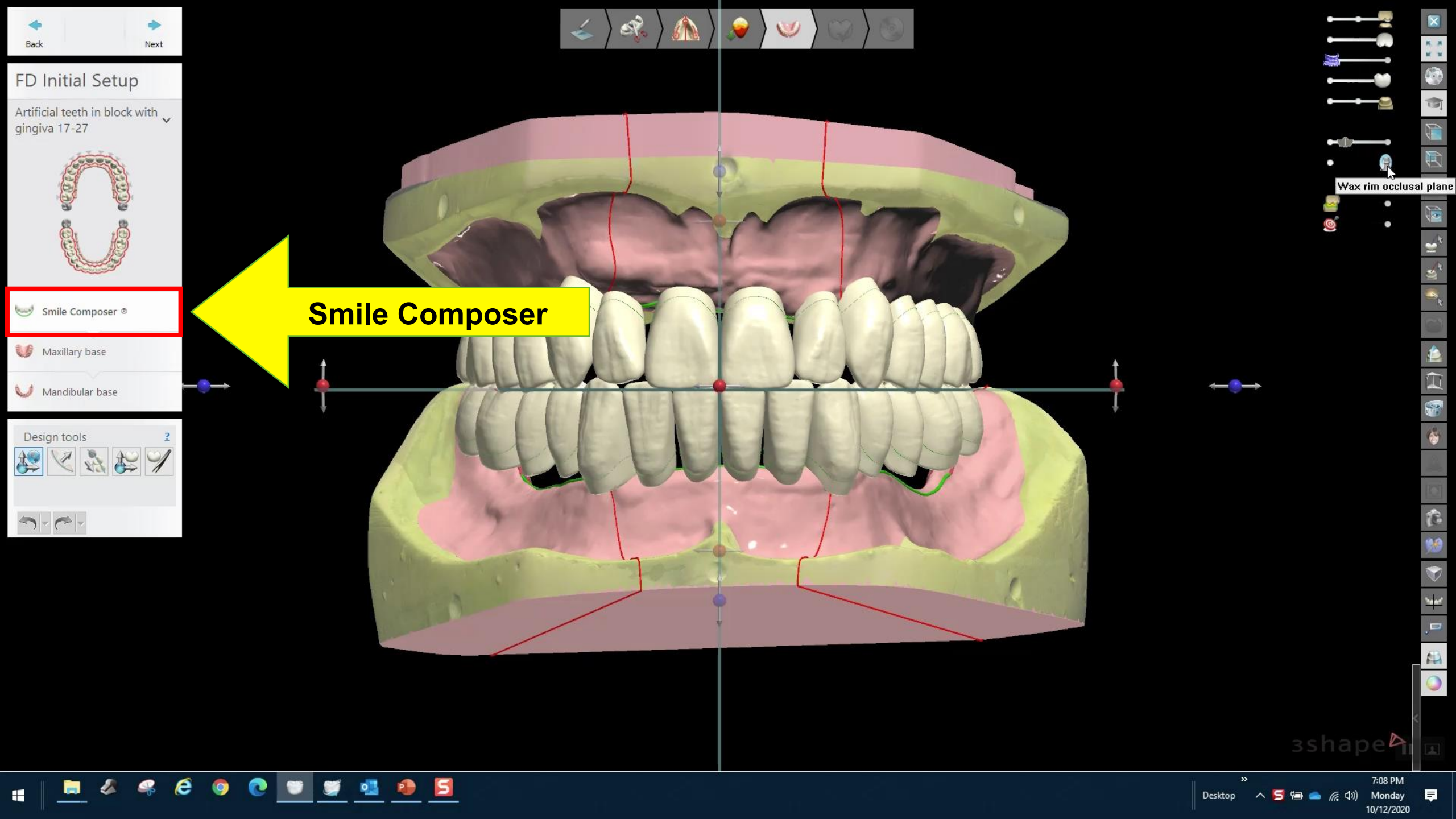
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10/12/2020

Tooth Mould Selection

Traditional tooth mould selection has certainly been one of the most challenging and frustrating processes for removable prosthodontics. The traditional viewing of tooth moulds in a mould guide or illustrated in a manual does give some information regarding the shape and size of the moulds, however it only provides a limited perspective of viewing anterior six teeth set typically in a flat arrangement on a tooth card.

Tooth Mould Selection

Of course there have been numerous attempts to help with maxillary anterior tooth selection using facial form, nasal width, zygomatic width, etc. as empirical guides. More recent classifications of tooth moulds in categories of size, soft/bold, and age have given the clinician a much better understanding of the mould forms and their intent. However, still lacking in the traditional selection is having the ability to view the tooth form when fully set with all the maxillary and mandibular teeth.

Tooth Mould Selection

Digital technology provides a unique opportunity to view tooth moulds in a more comprehensive and more visual manner than traditional tooth mould guides and mould charts. Having the ability to view the selected maxillary anterior tooth mould in a complete set-up and in its relationship to the ridges gives an enhanced visual of the tooth mould. Also the ease of changing tooth selection is greatly facilitated with the digital system.

The following tutorial highlights three toothline choices. Each toothline is organized in slightly different tooth form patterns which will be individually discussed and illustrated.

Tooth Mould Selection

Tooth Mould Selection

Phonares II

The Phonares II toothline was one of the first tooth mould systems to break from the traditional square/tapering/ovoid systems. Instead it uses the characteristics of size, soft/bold and age. It is an easy system to understand and to visualize. The Phonares II inter-proximal tooth contours are minimally tapered making them ideal for esthetic digital design.

- The **traditional** Phonares II mould chart will illustrate the tooth mould organization
- The **digital** presentation of the tooth moulds will follow.
- Each size category (small, medium, large) will be digitally illustrated as a group and as individual moulds.
- An icon with tooth mould information is conveniently attached to each illustration for quick reference.

When selecting the **Ivotion disc monolithic process** the only denture teeth at this time in that process are referred to as the Ivotion tooth moulds. These tooth forms & labels are identical to the Phonares II moulds. The only difference is the cervical architecture.

Anterior Tooth Selection

Phonares II

Vivodent DCL

Vivodent S DCL

Traditional carded denture tooth moulds pre-set

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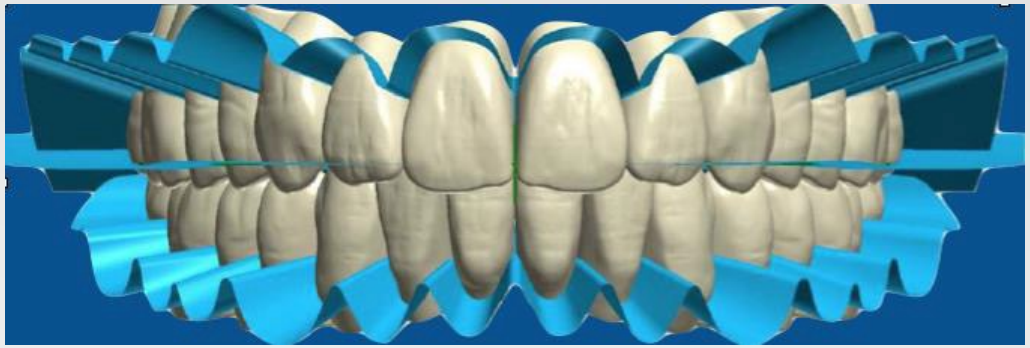
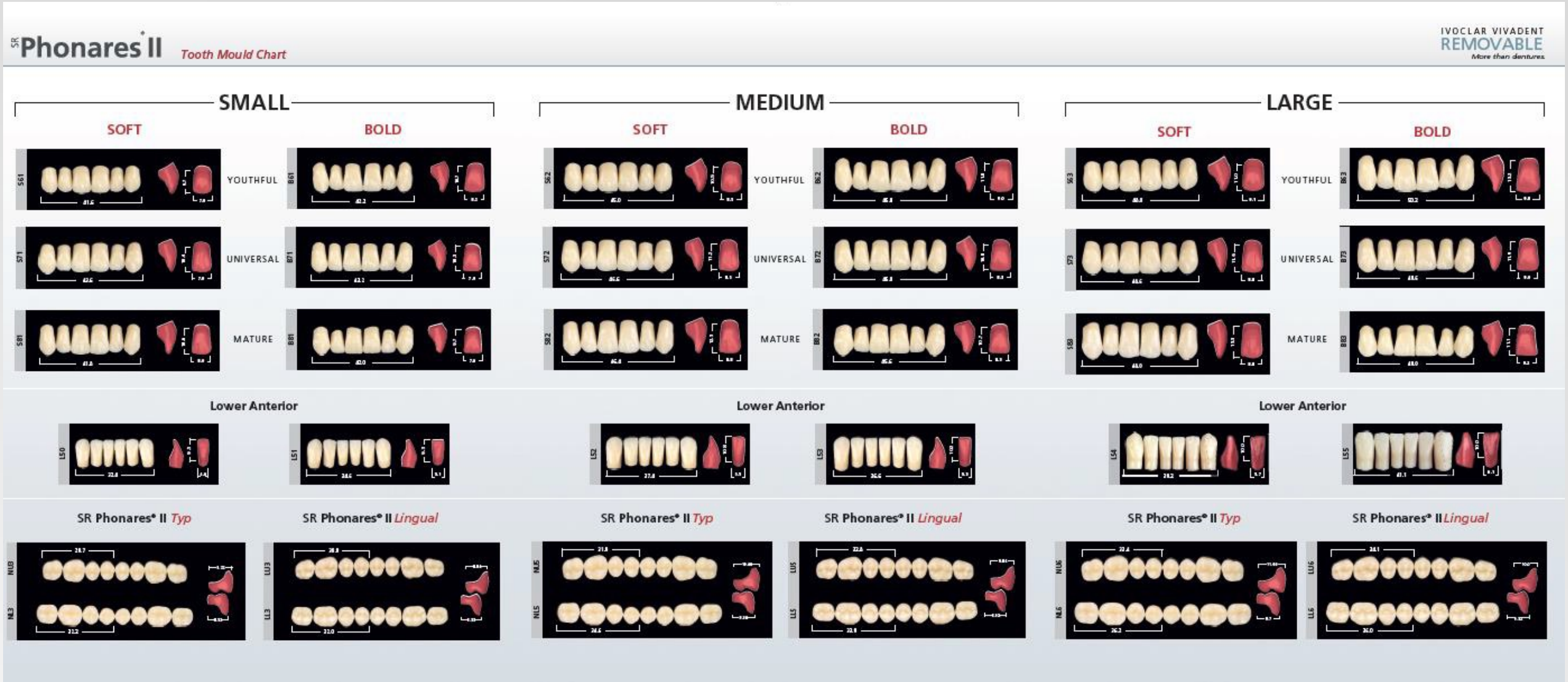
Anterior Tooth Selection

Phonares II

Specialized Ivotion Phonares II



Anterior Tooth Selection



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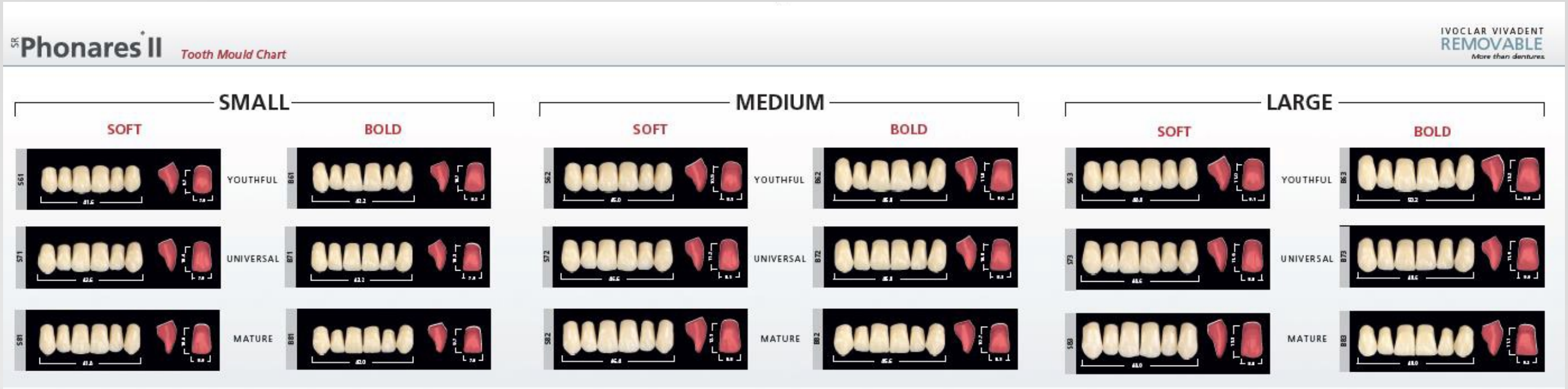

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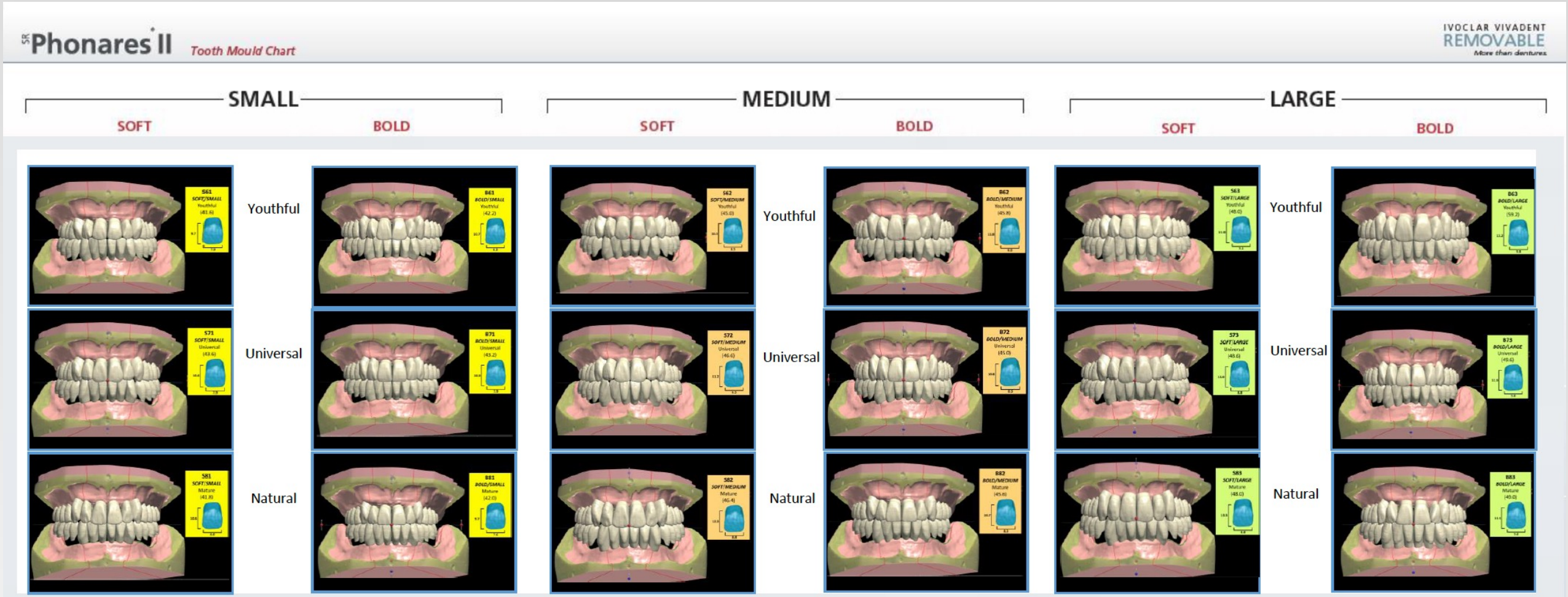

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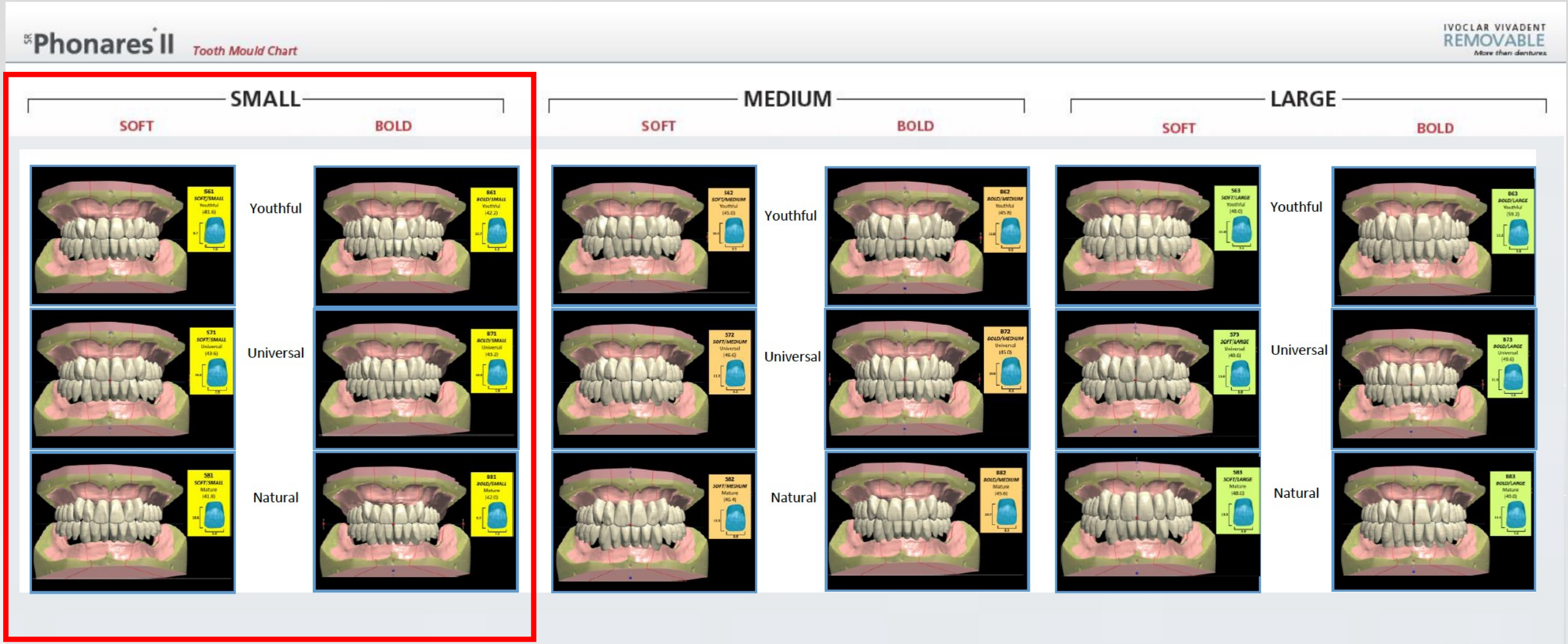

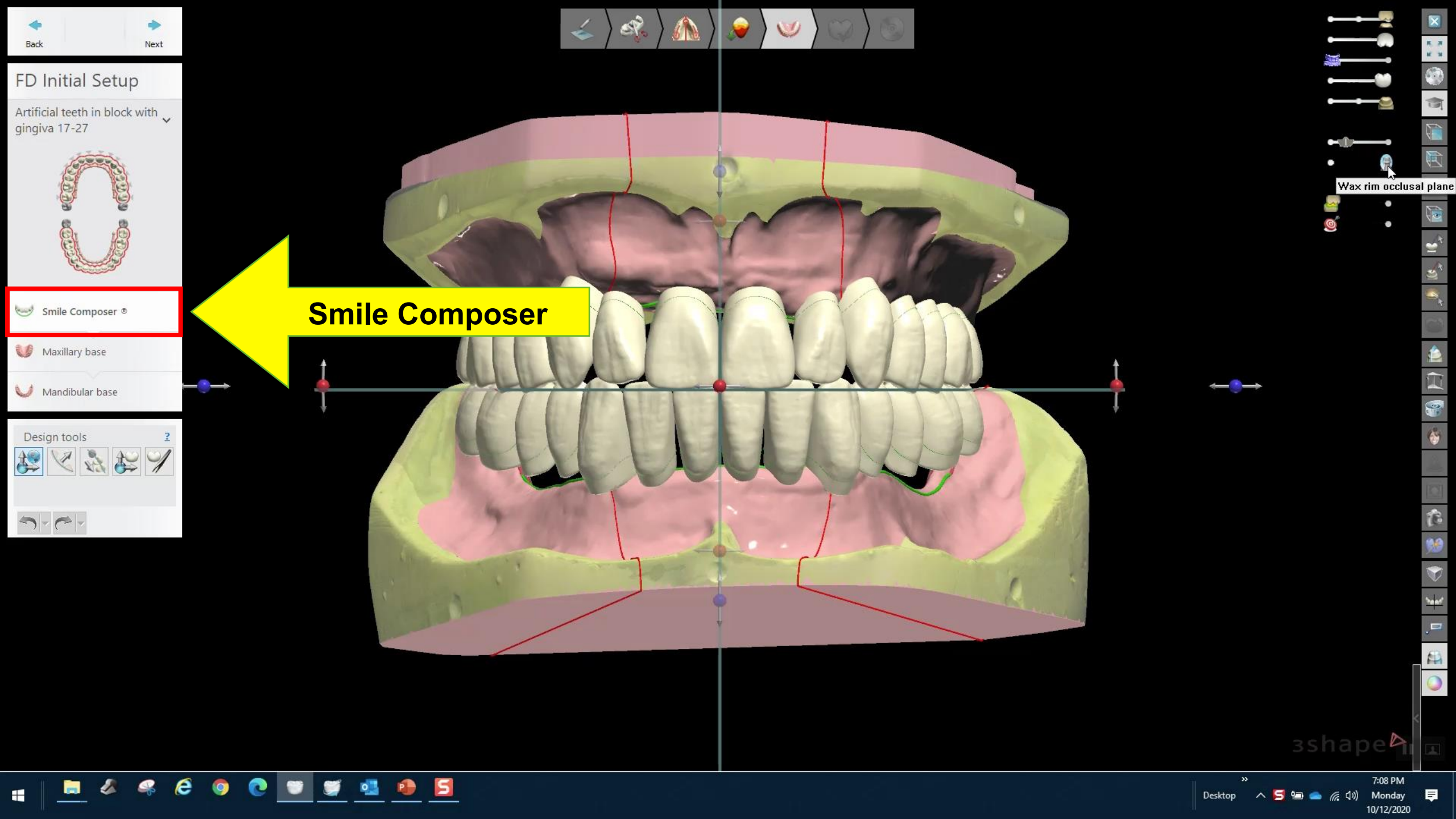
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7:08 PM
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10/12/2020

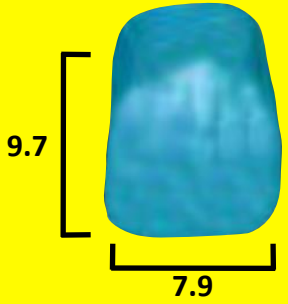
SMALL

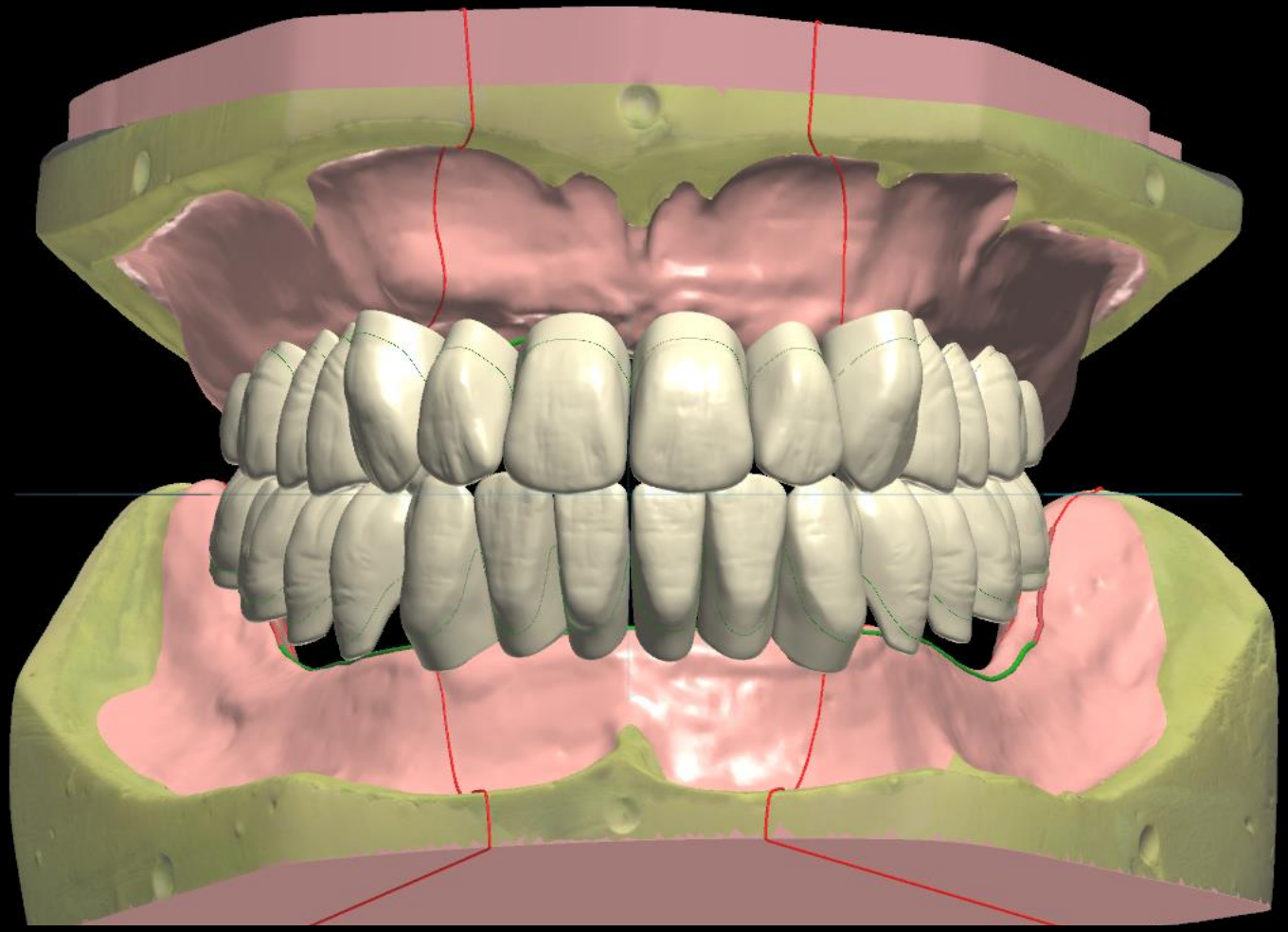
SOFT

S61

Youthful

(41.6)





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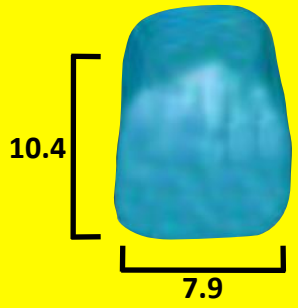

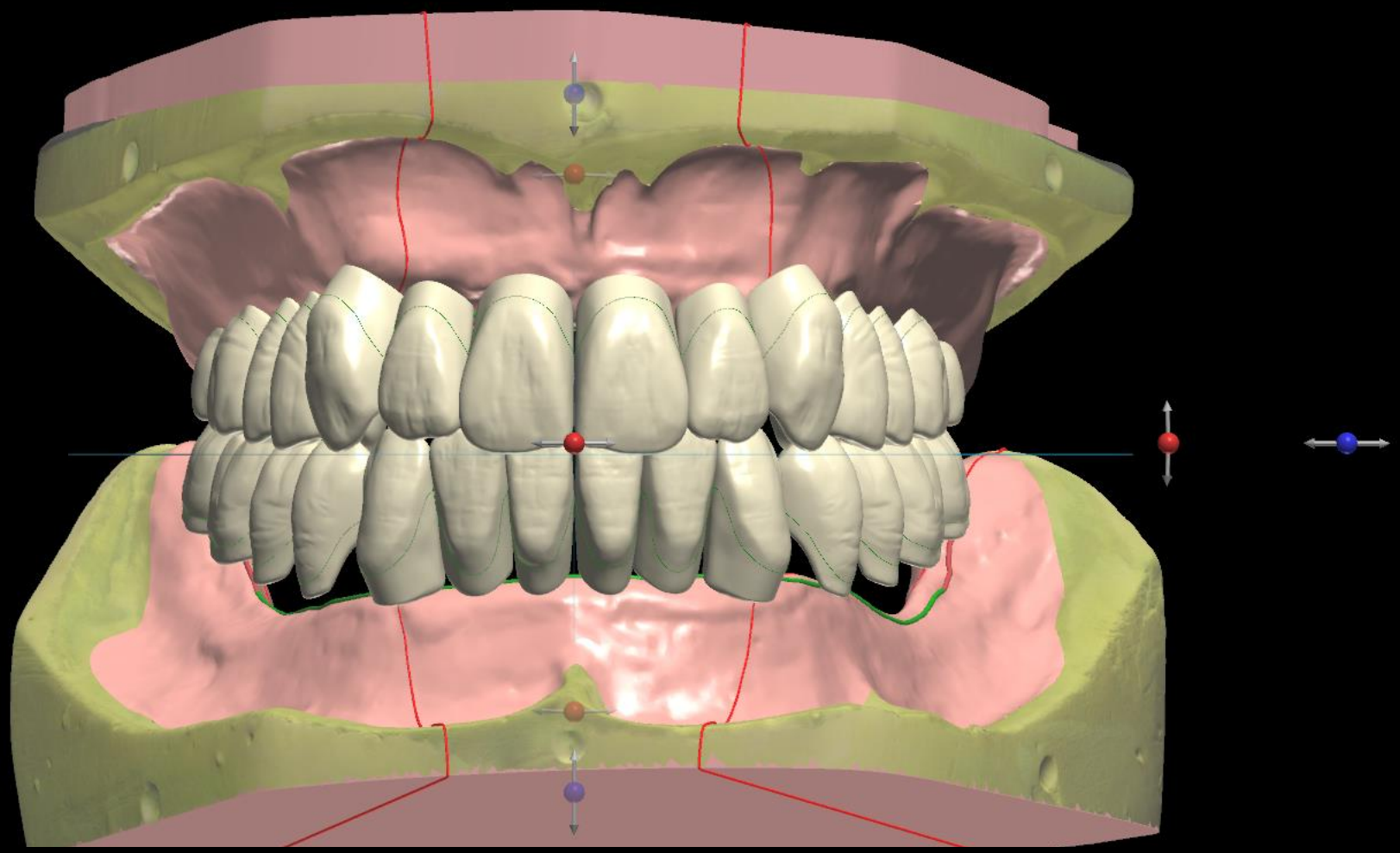

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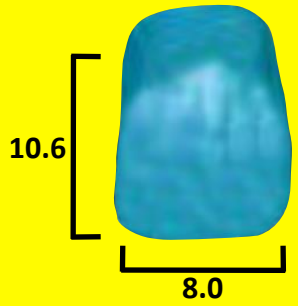

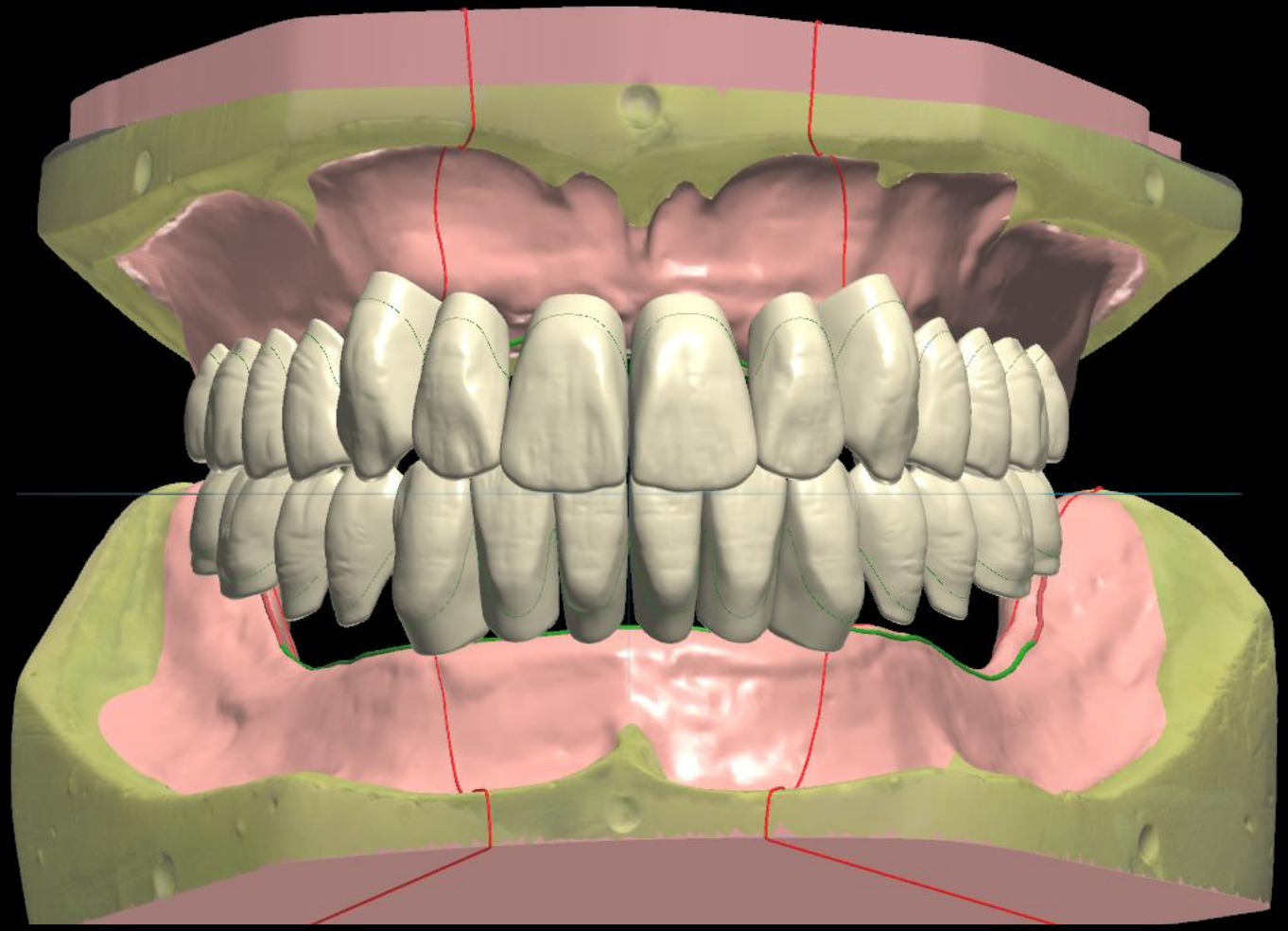

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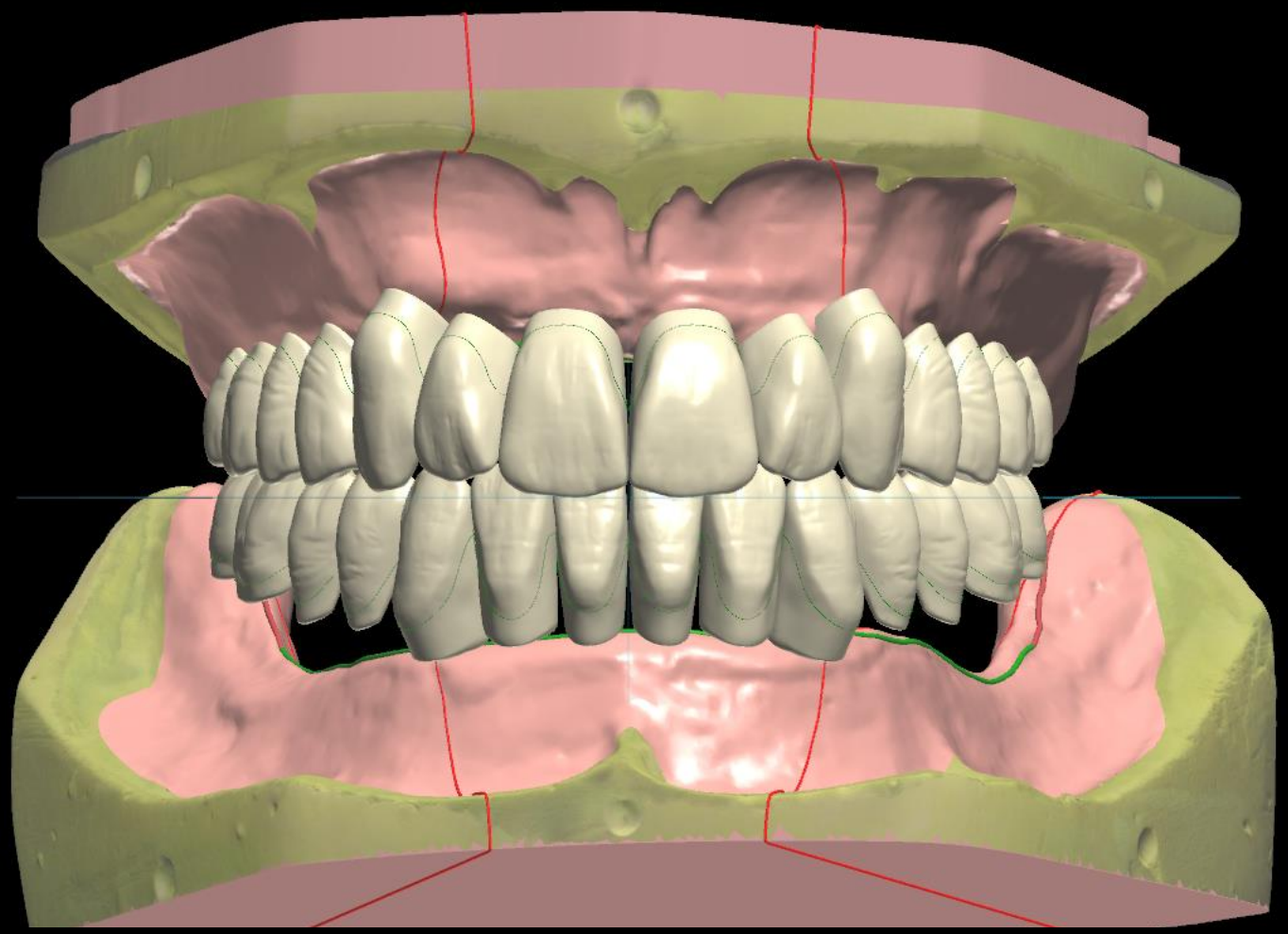

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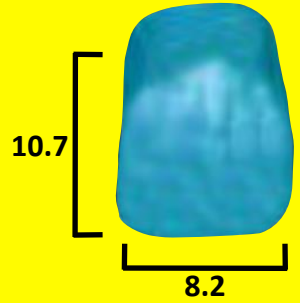

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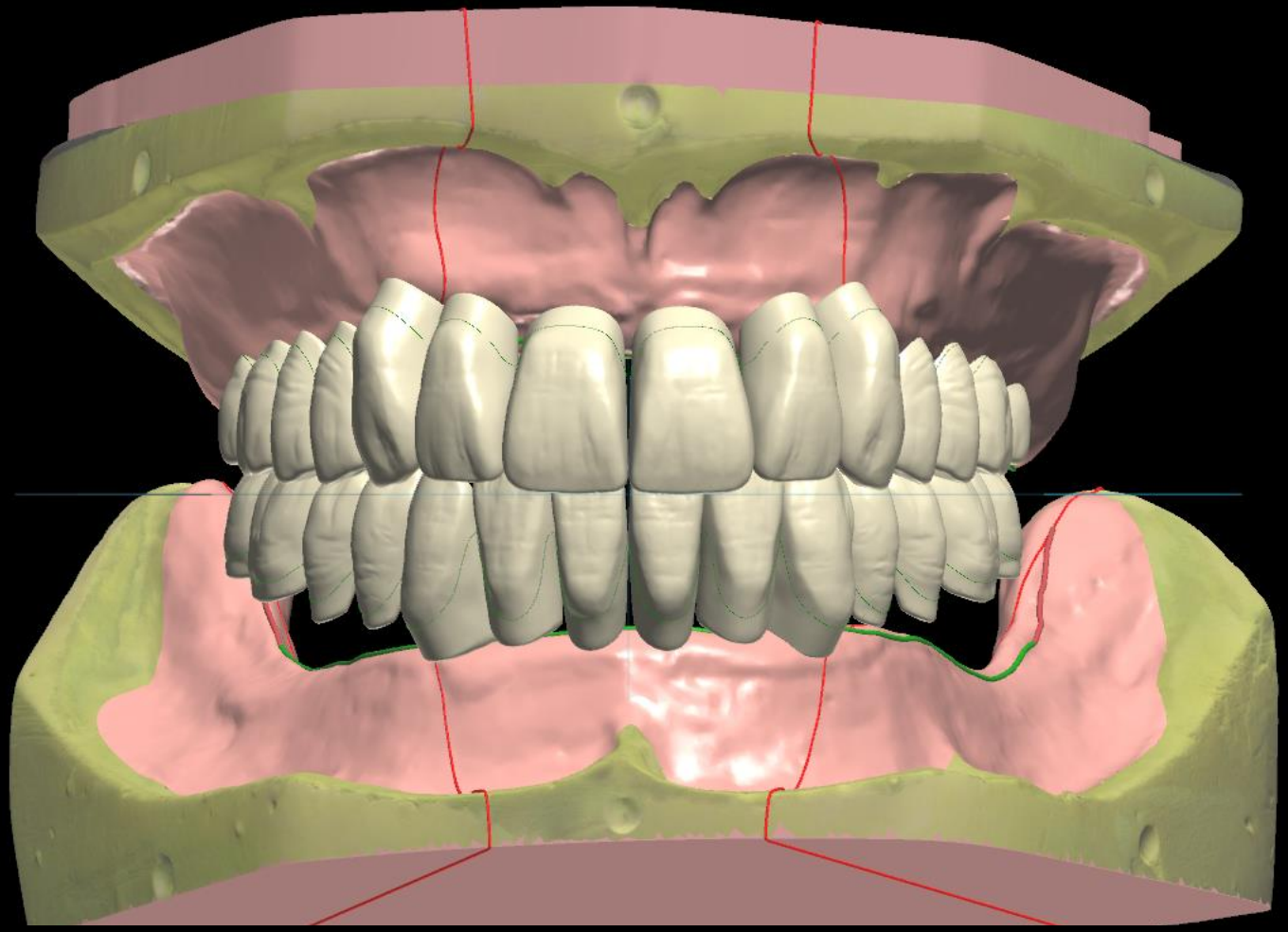

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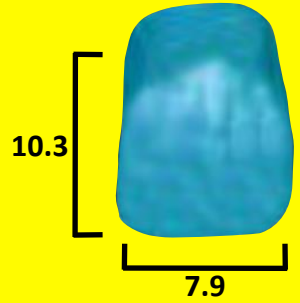

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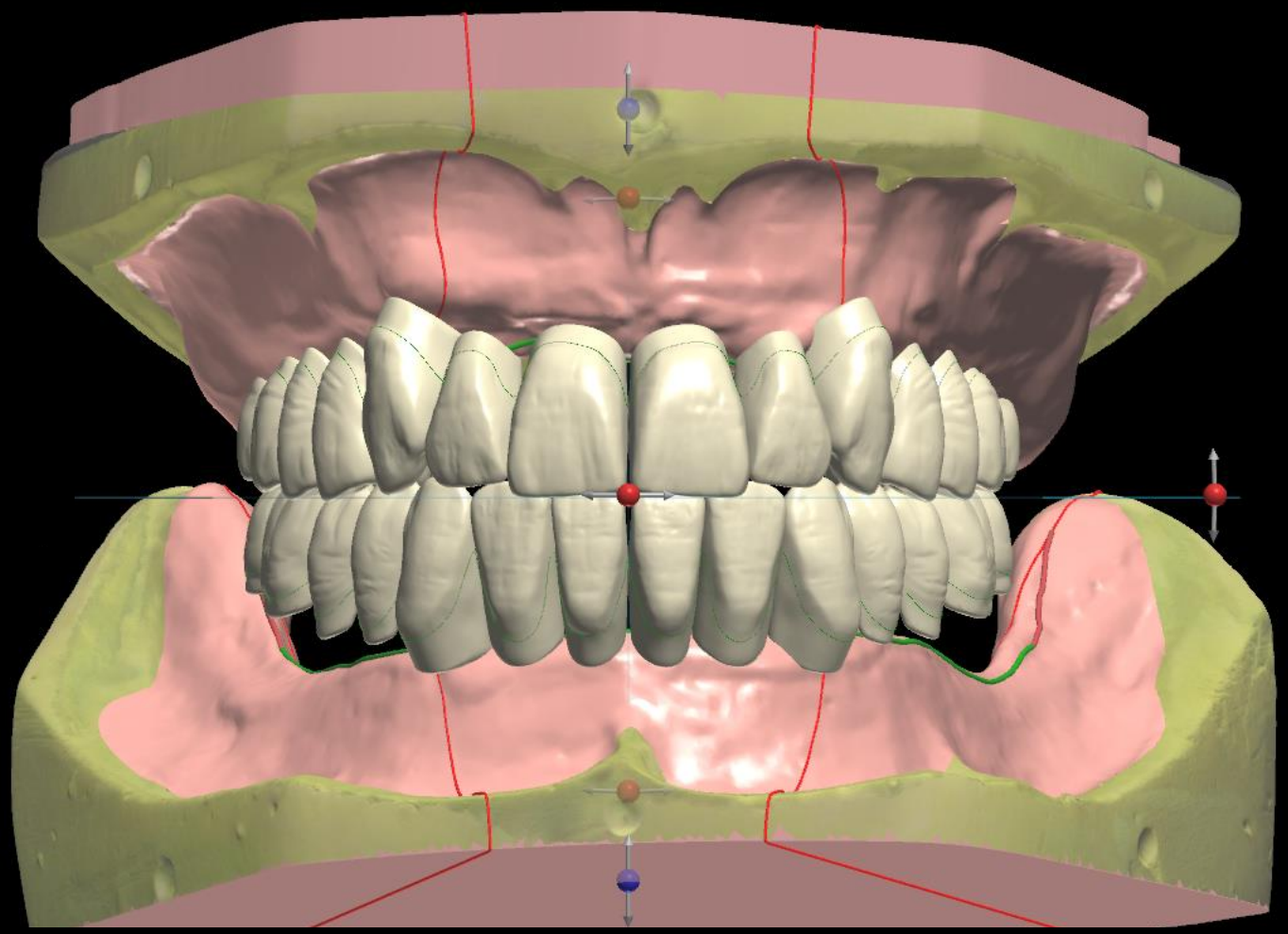

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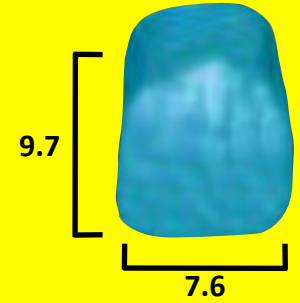
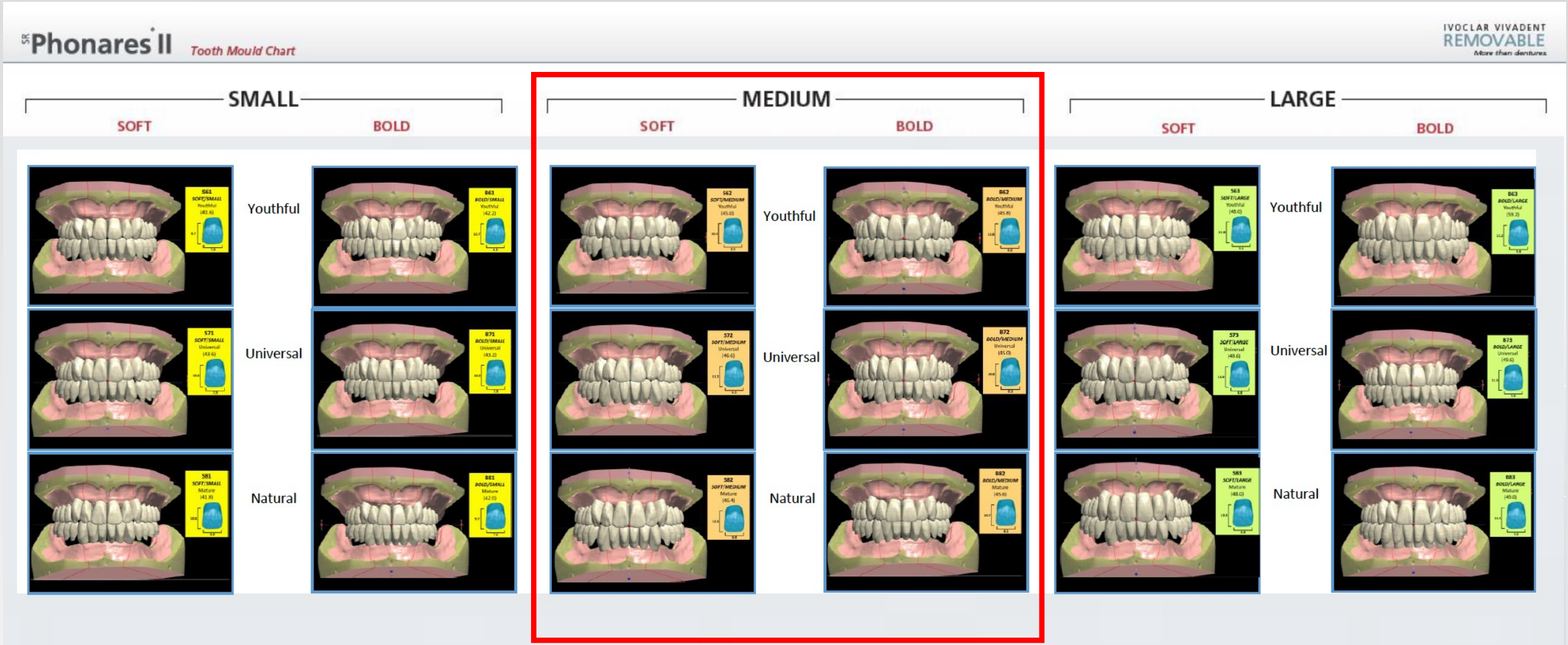


Anterior Tooth Selection



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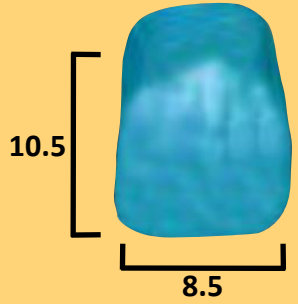

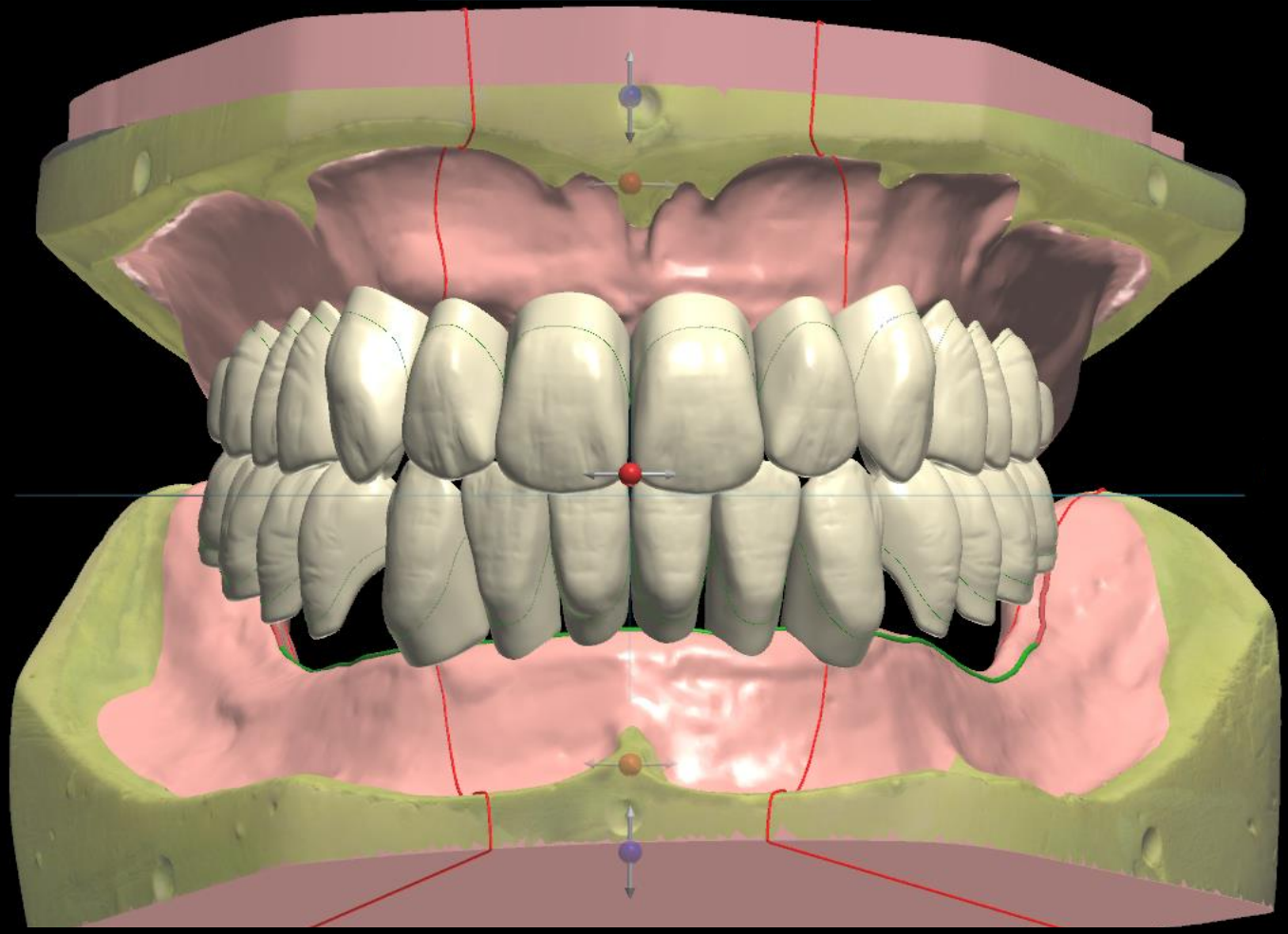

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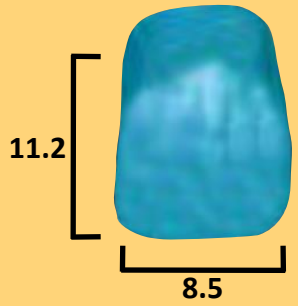

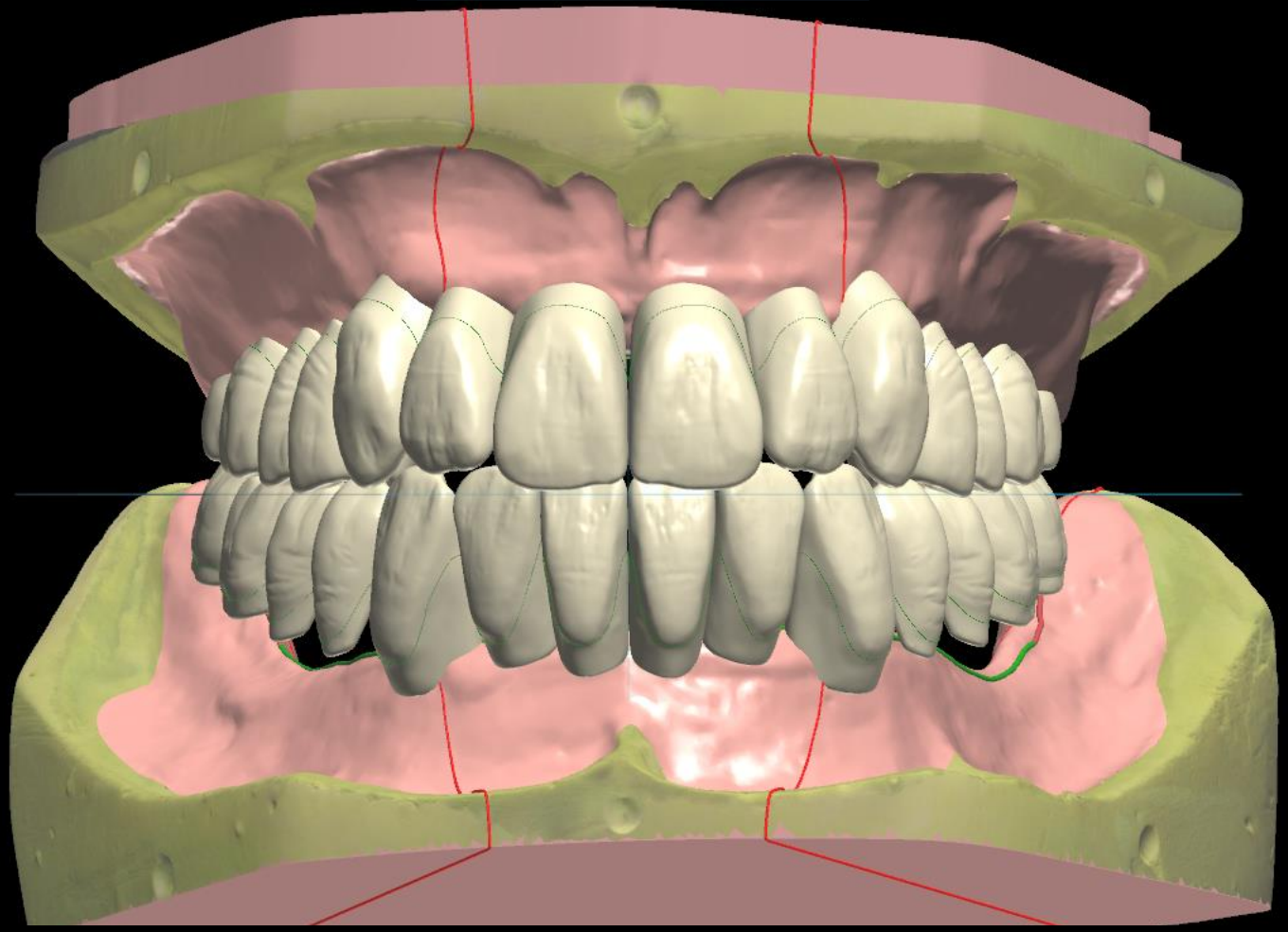

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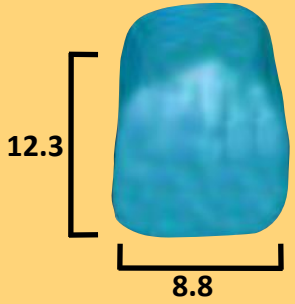

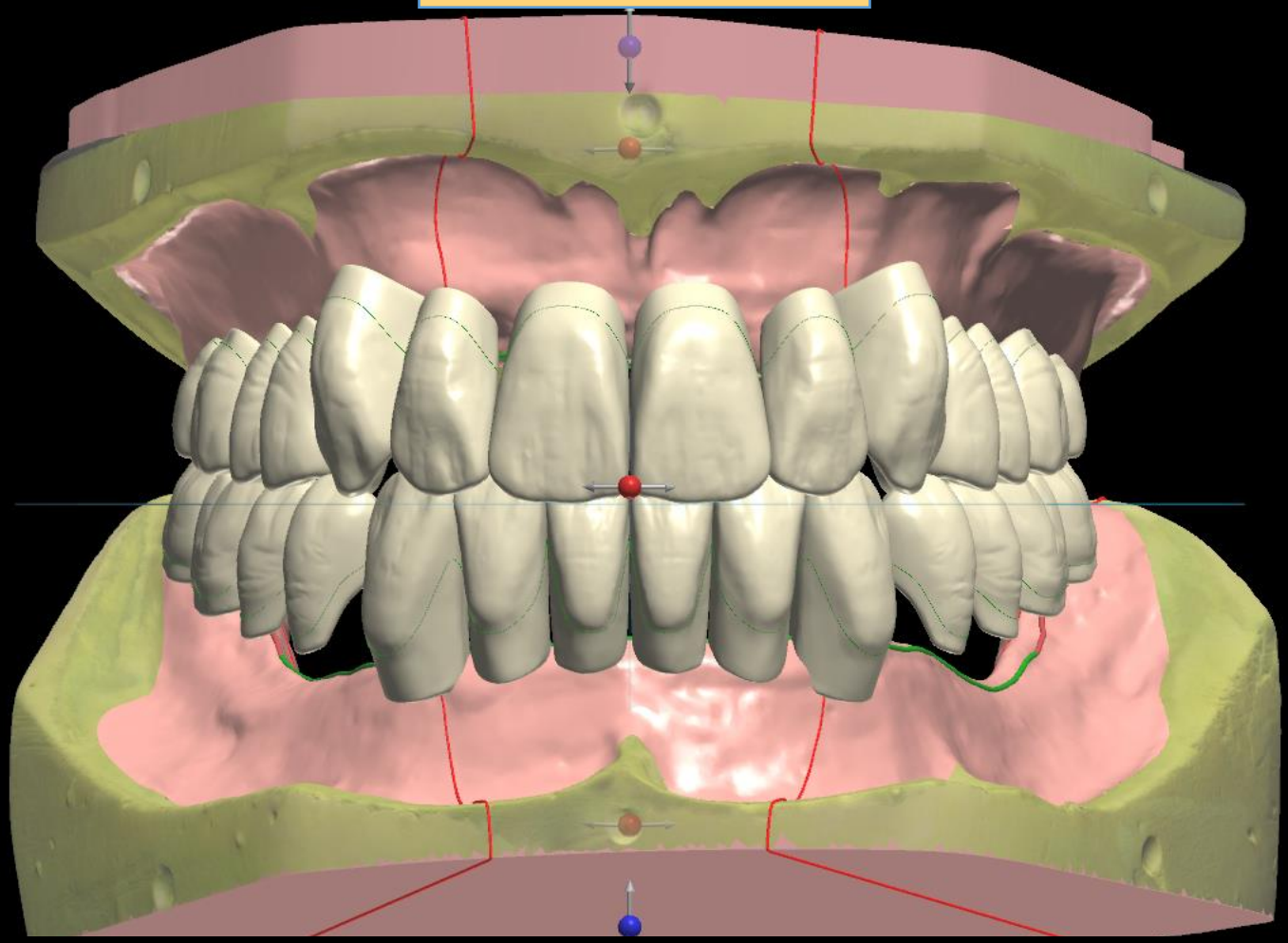

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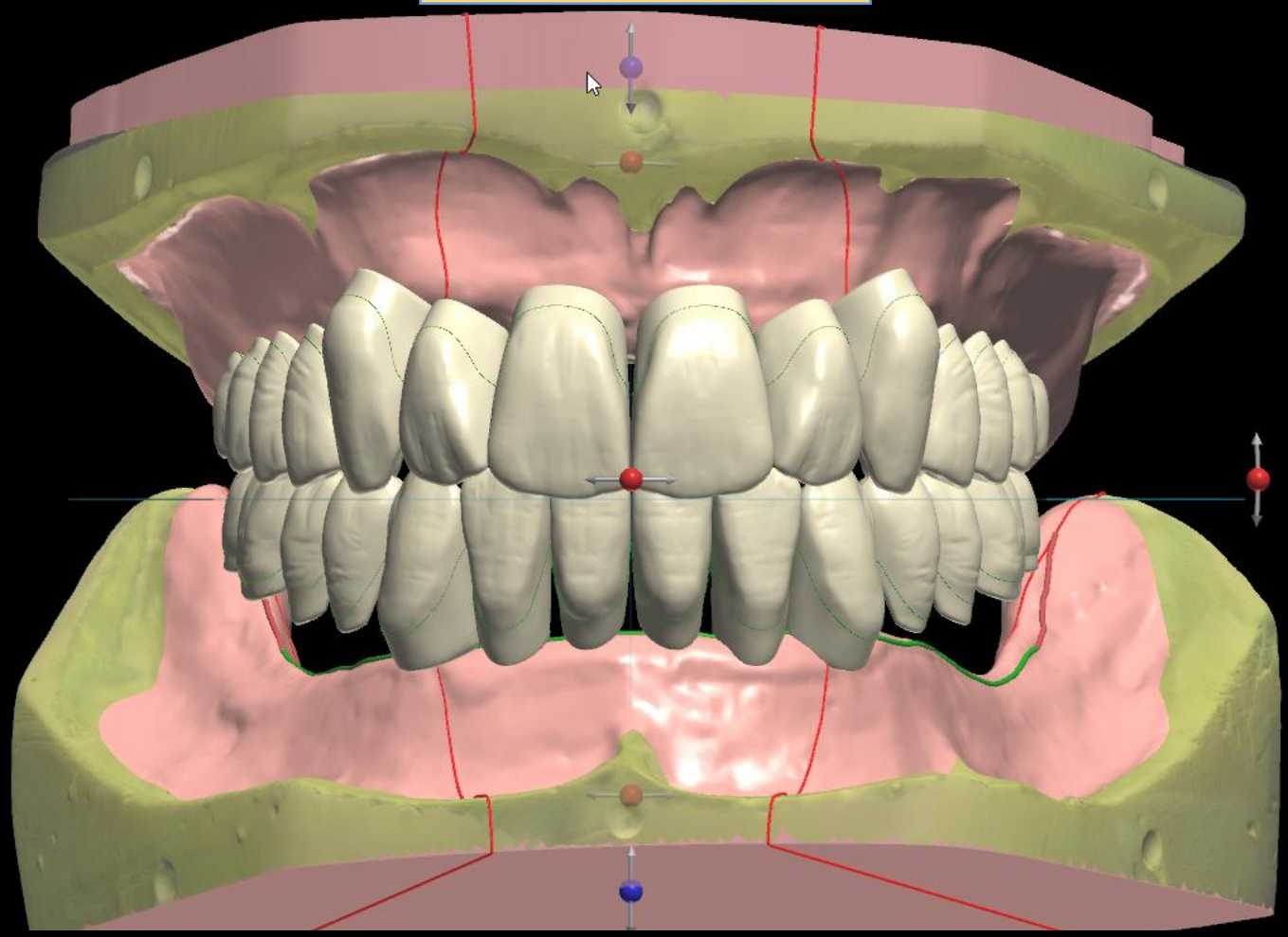

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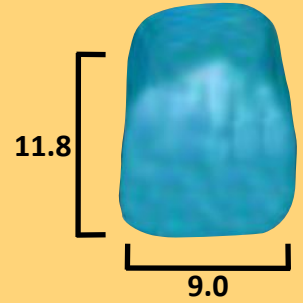

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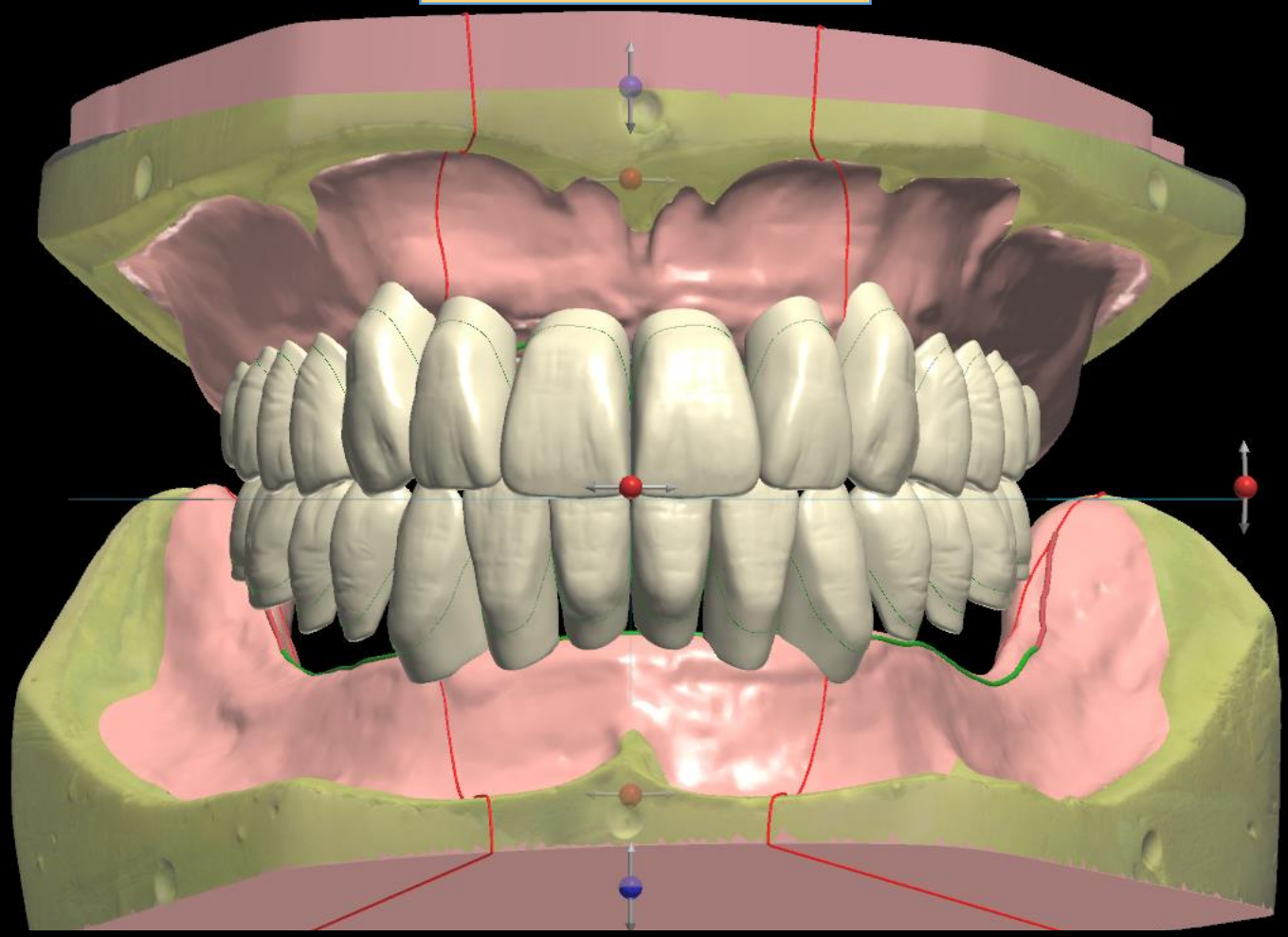

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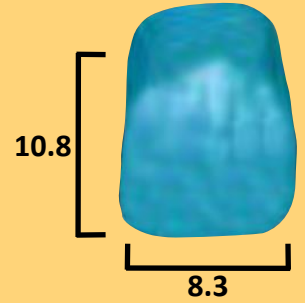

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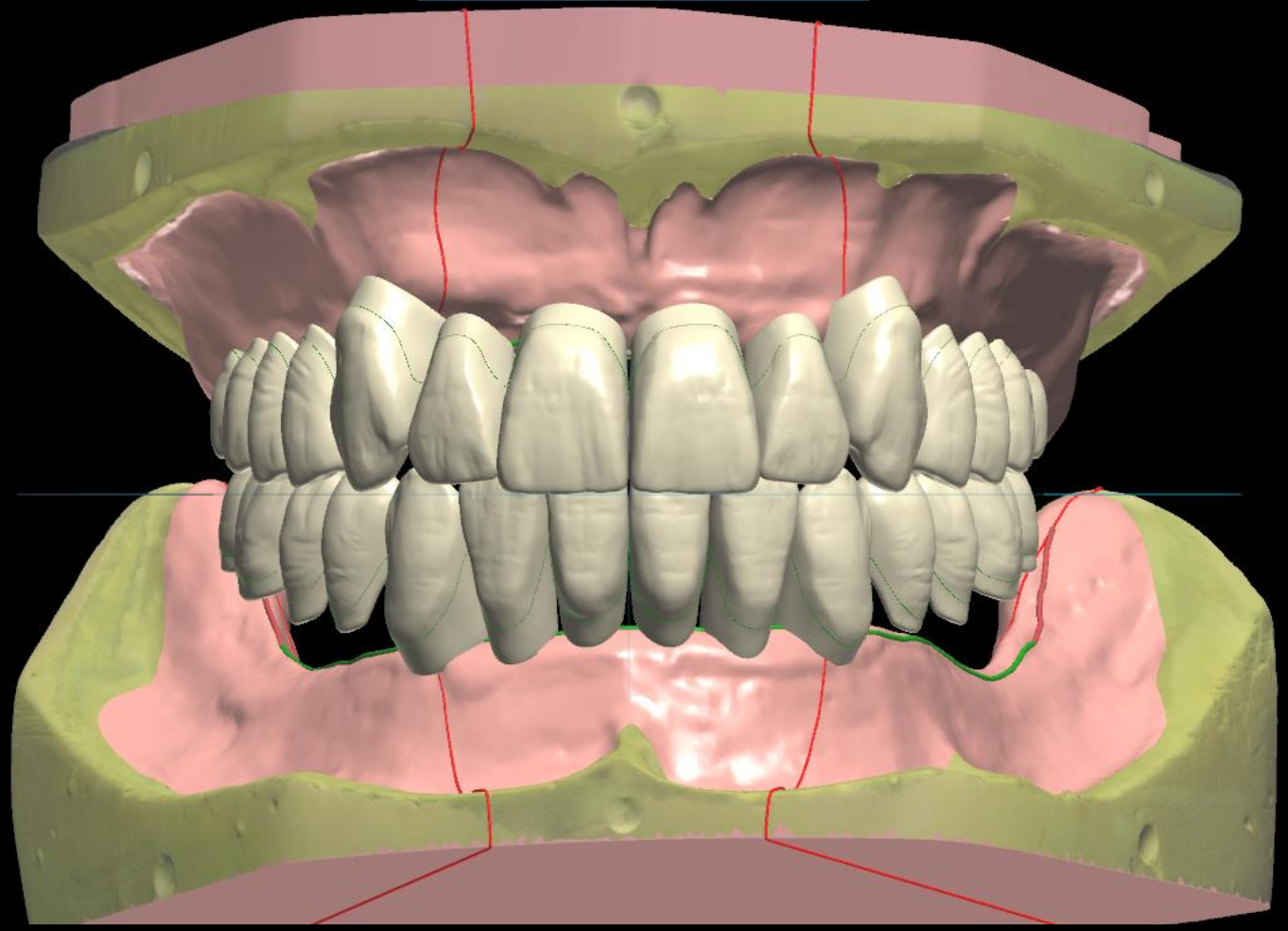

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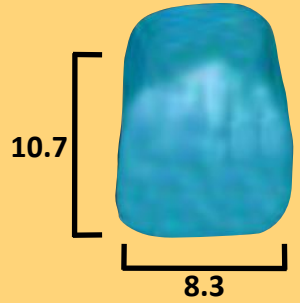
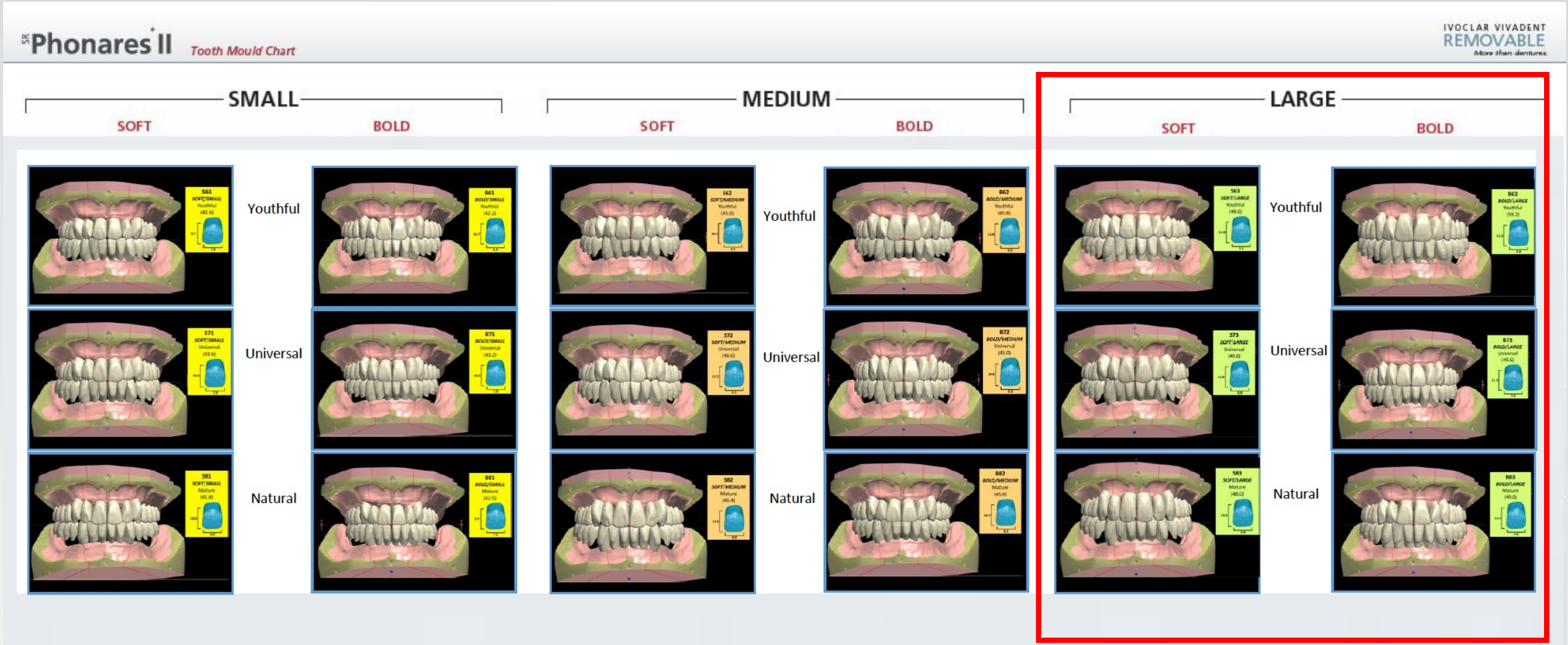


Anterior Tooth Selection



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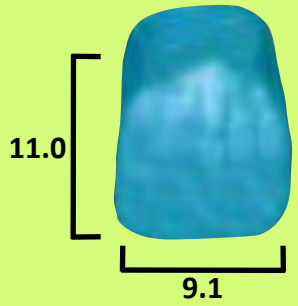

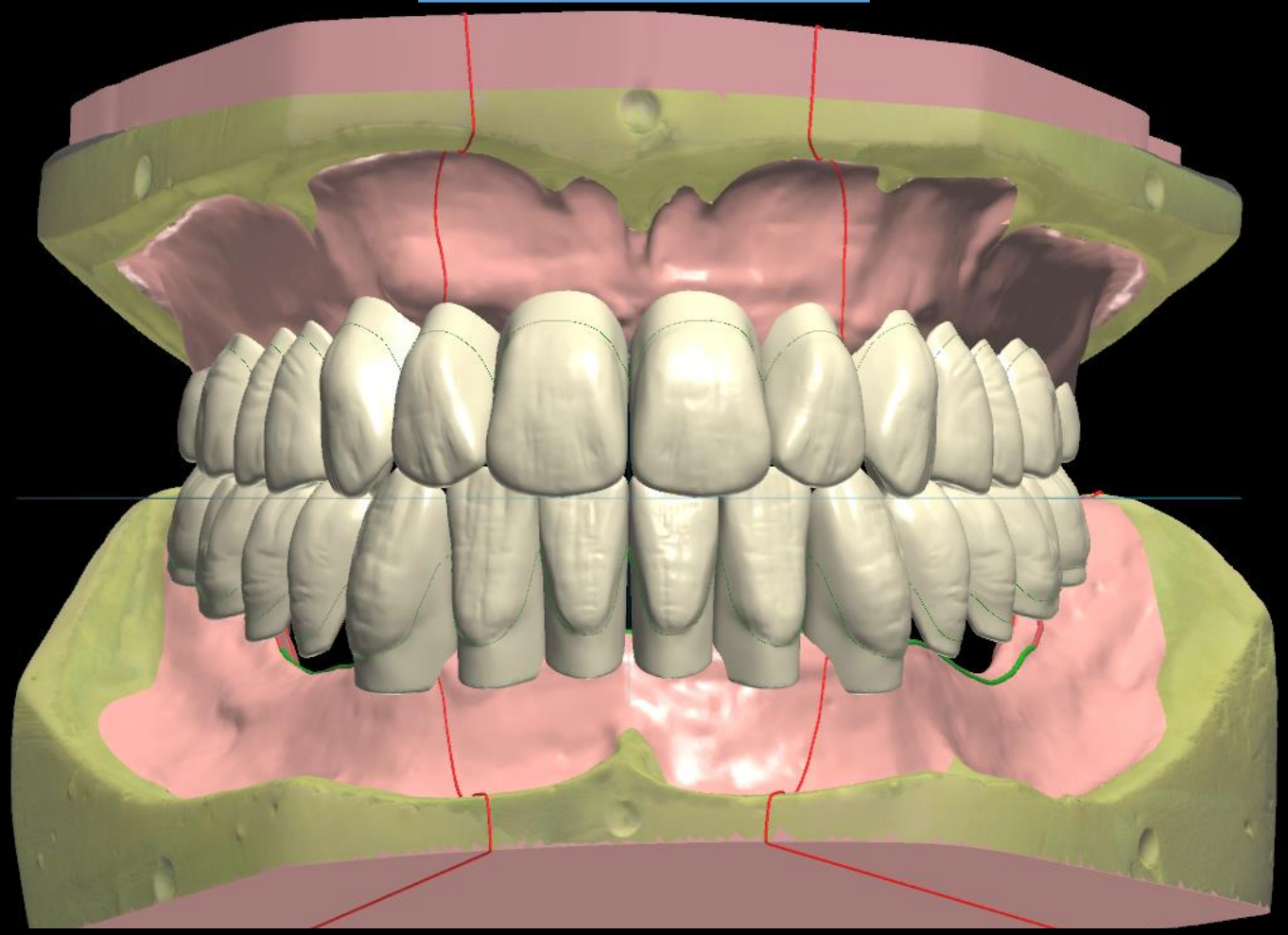

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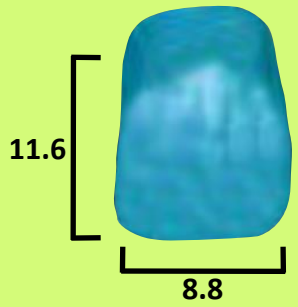

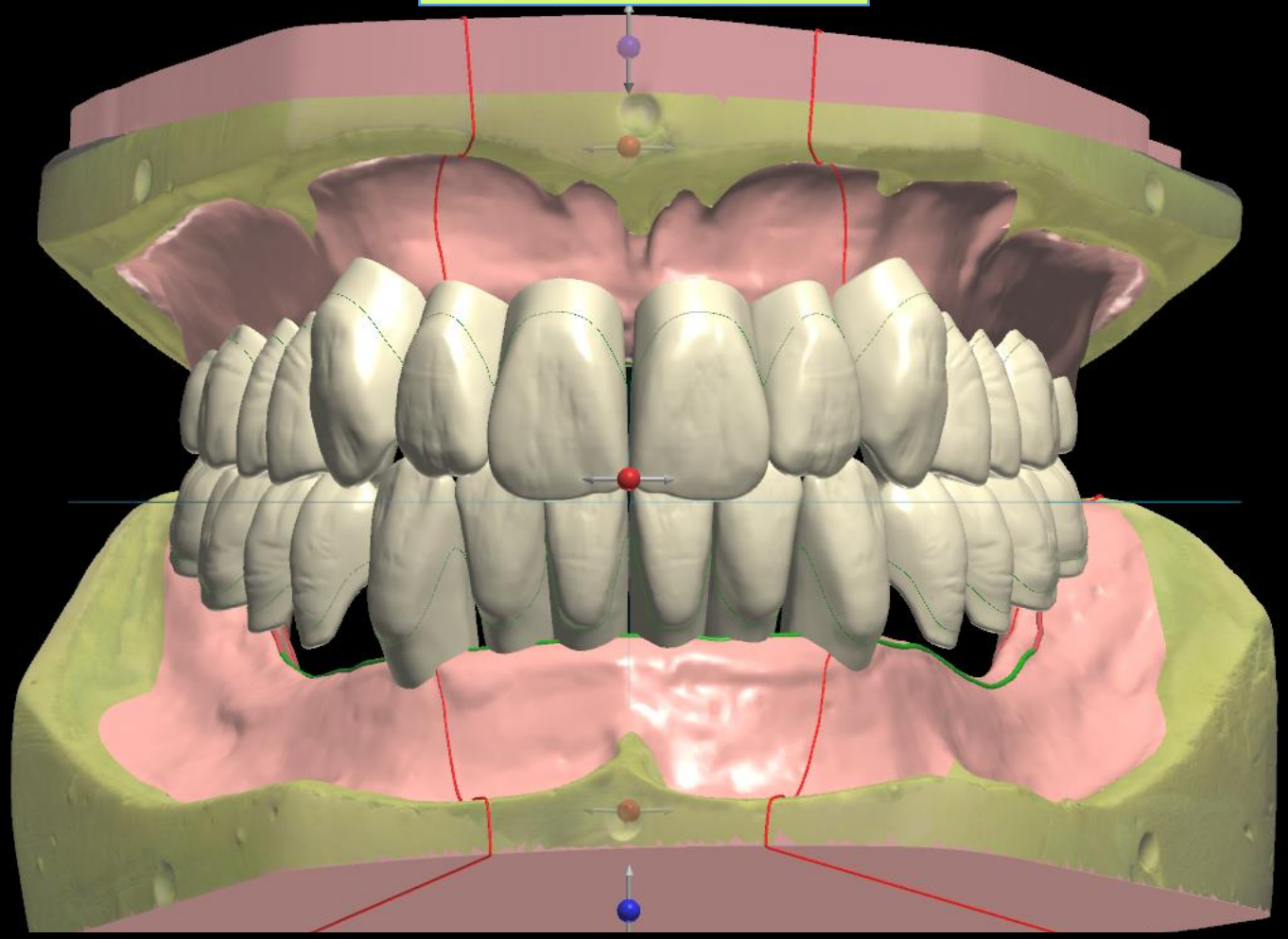

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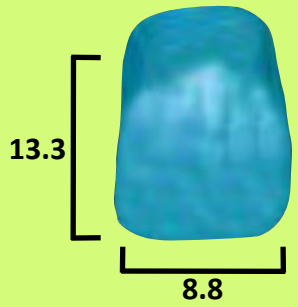

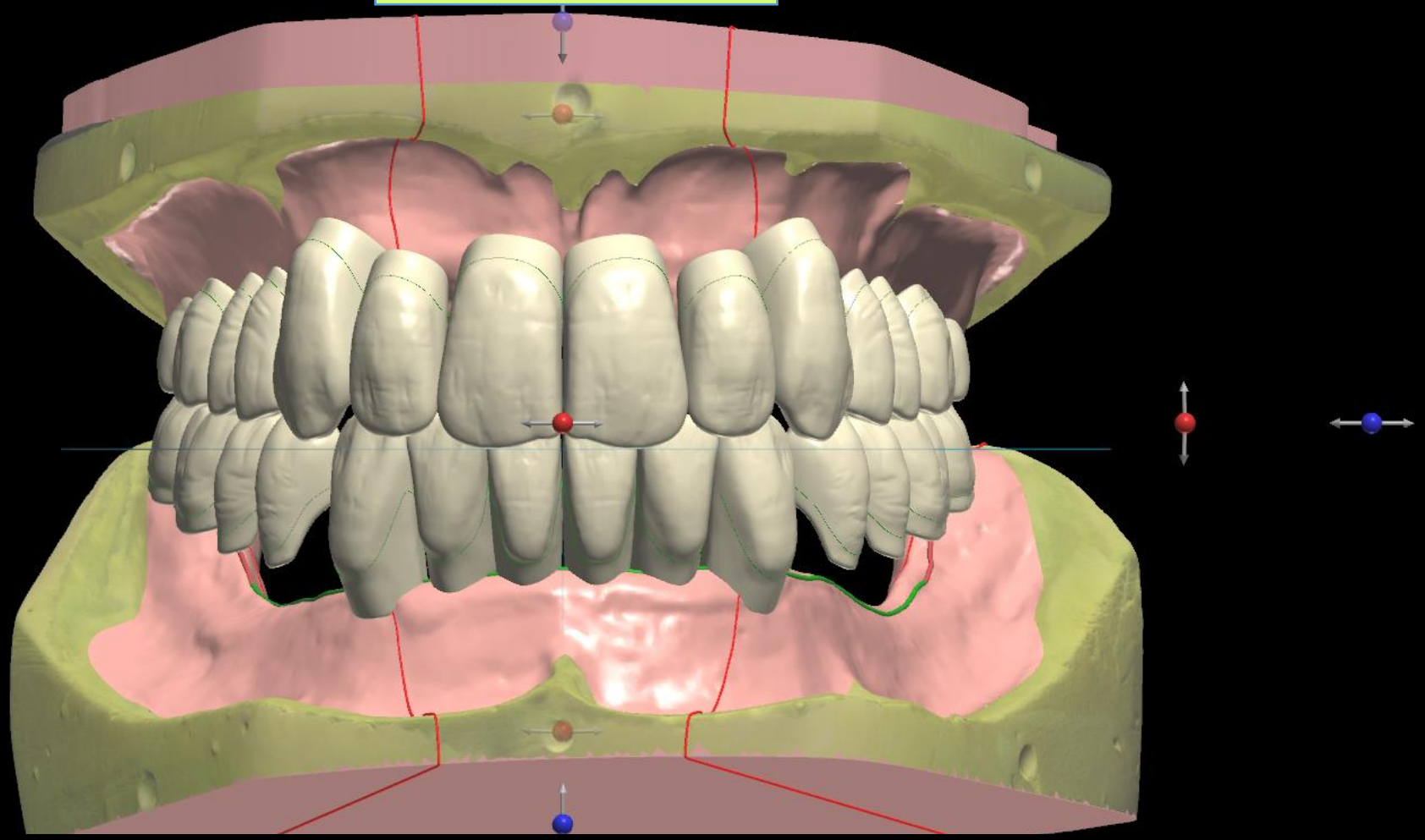

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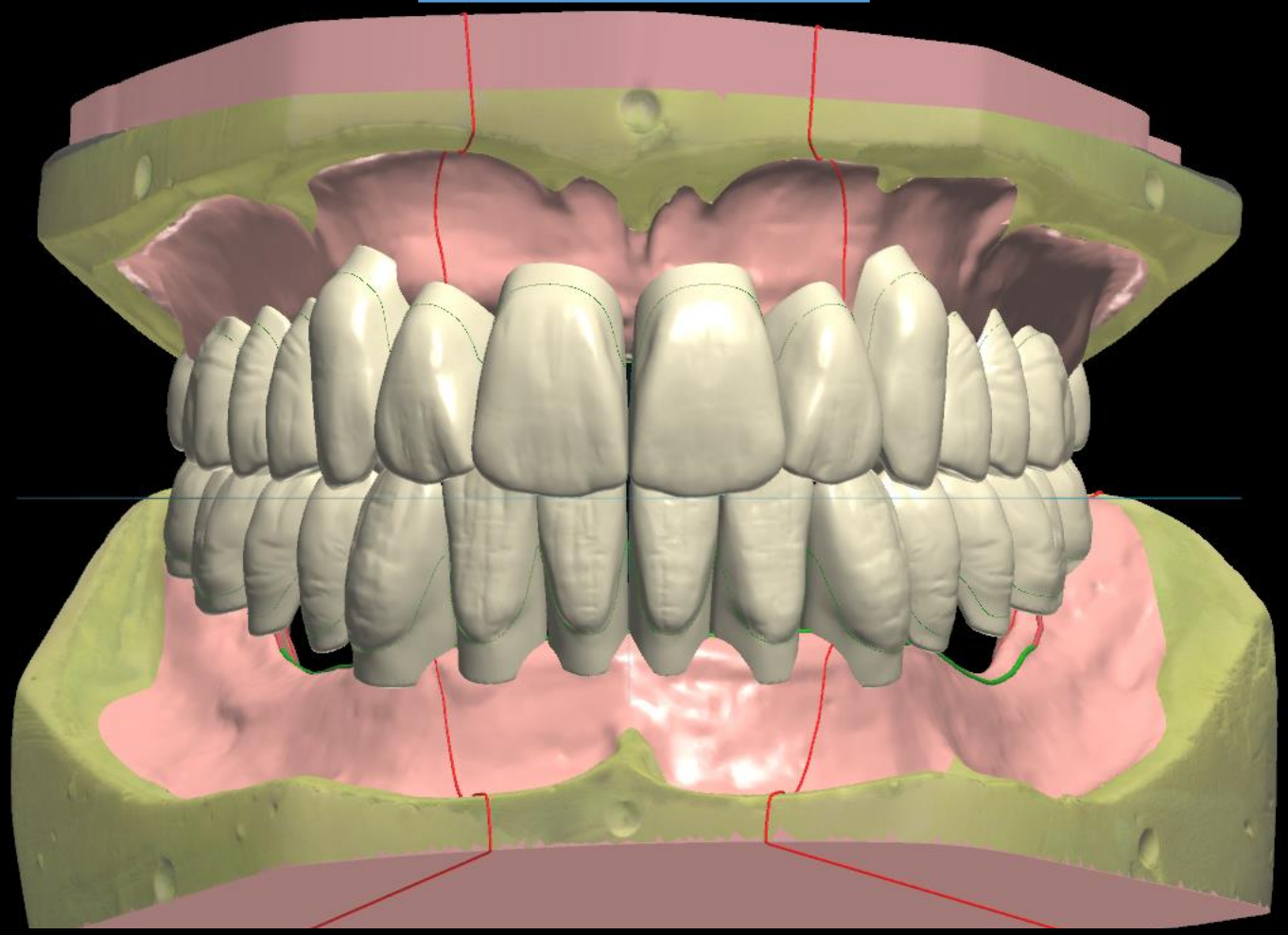

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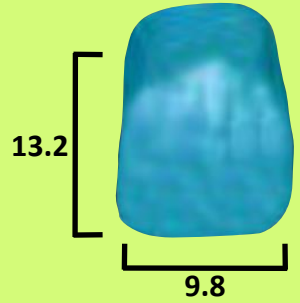

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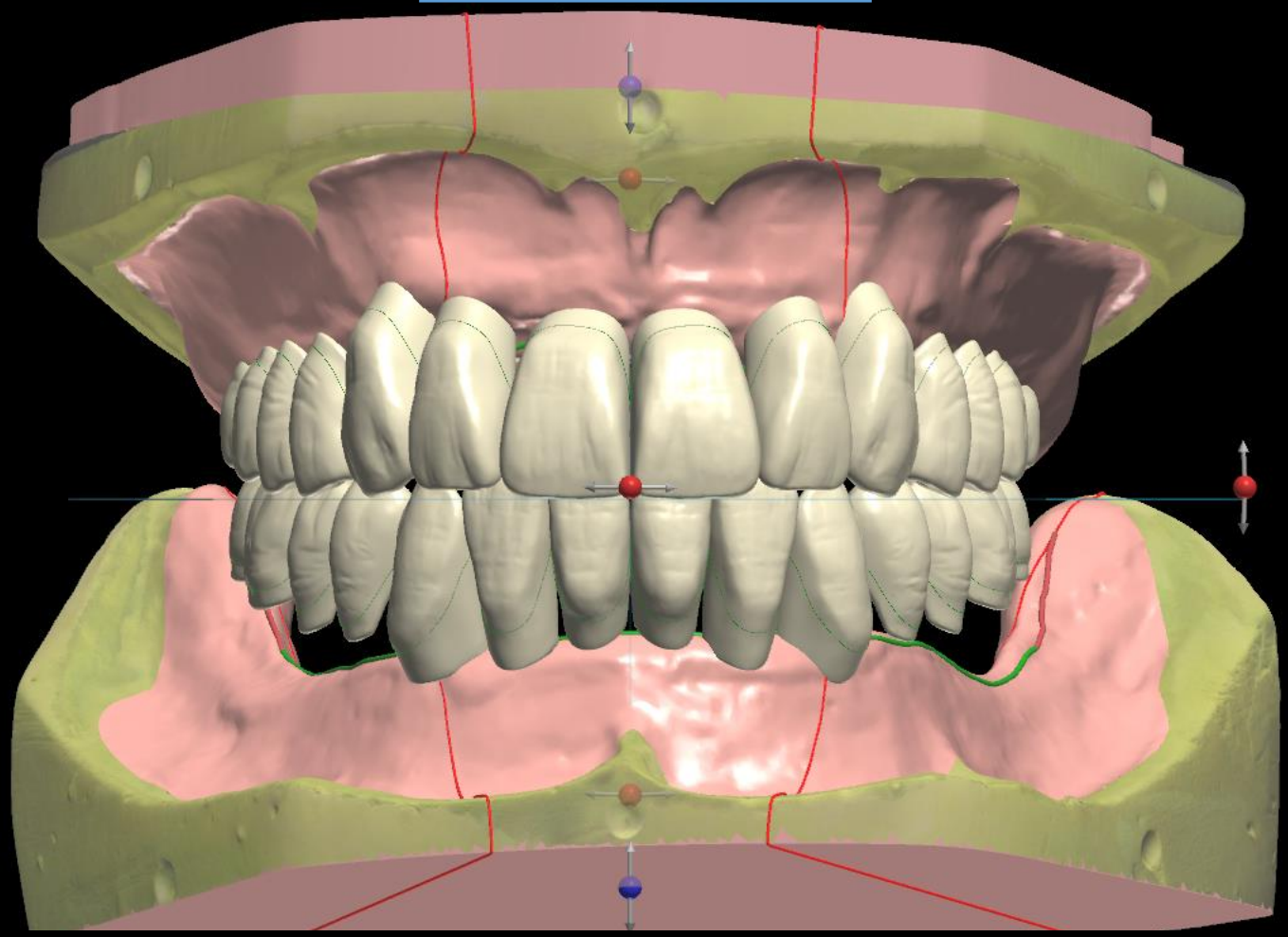

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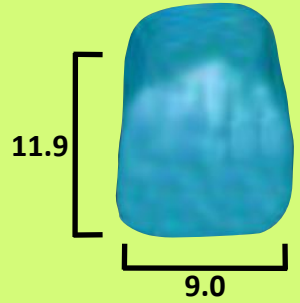

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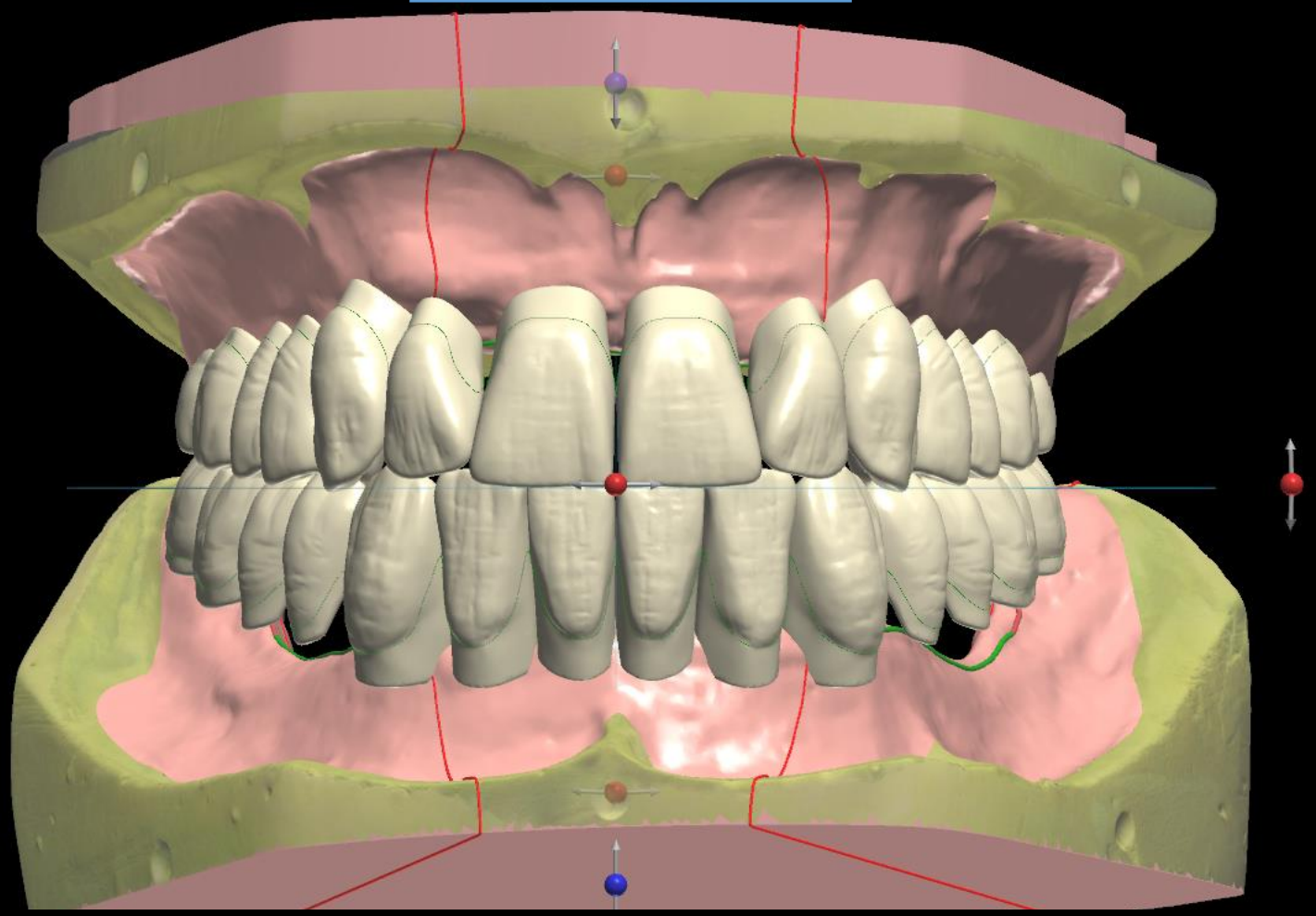

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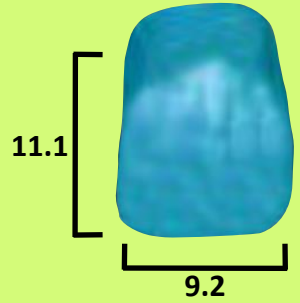


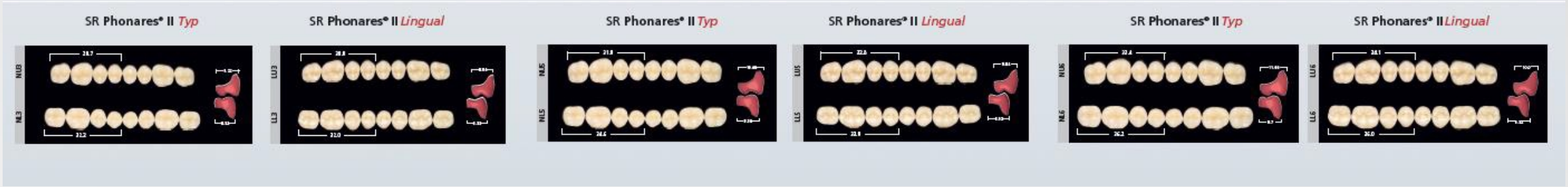
Posterior Tooth Selection

Semi-anatomic occlusion

SR Phonares II Typ

Lingualized

SR Phonares II Lingual

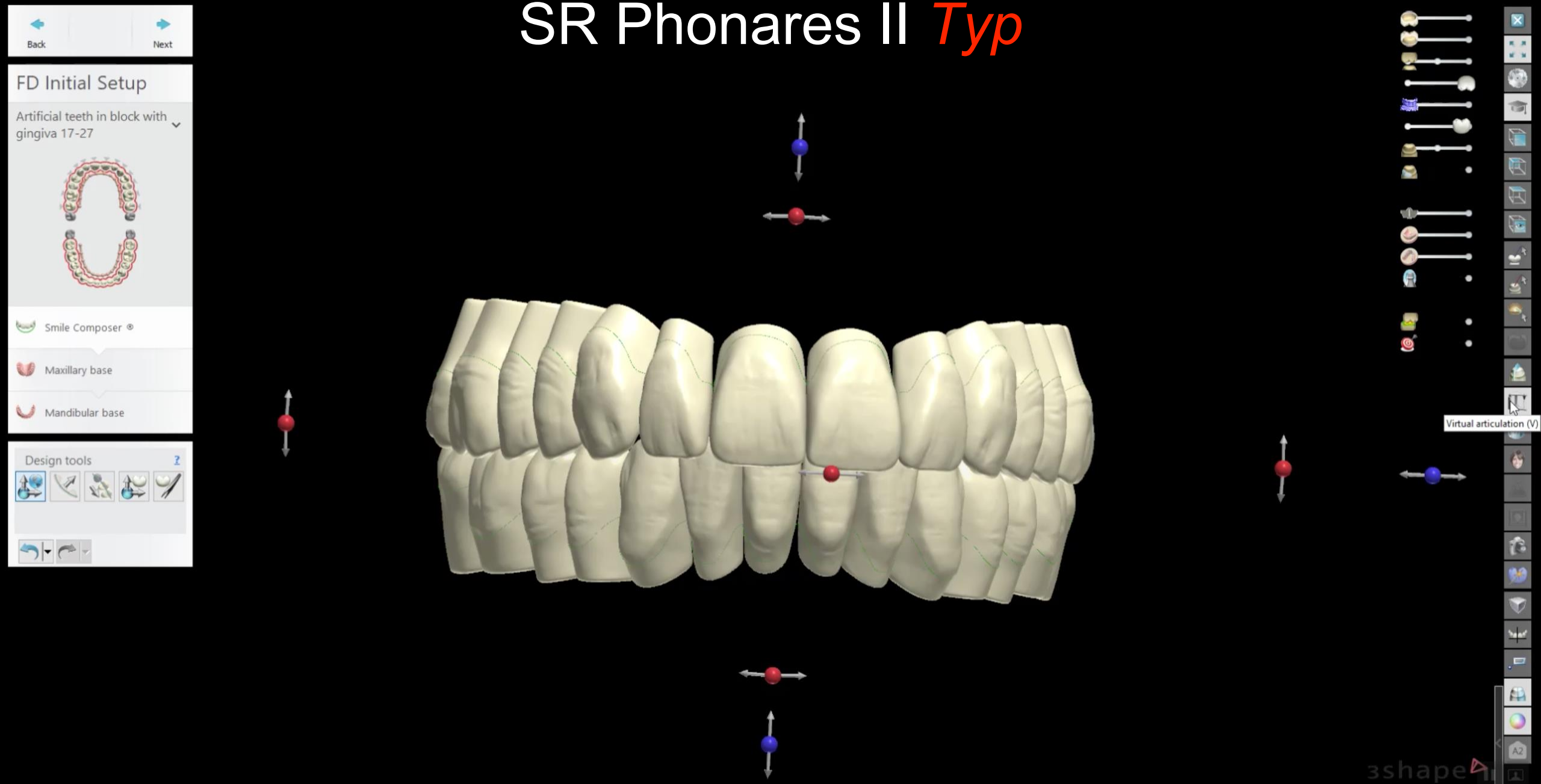


Features of "Semi-anatomic" occlusion

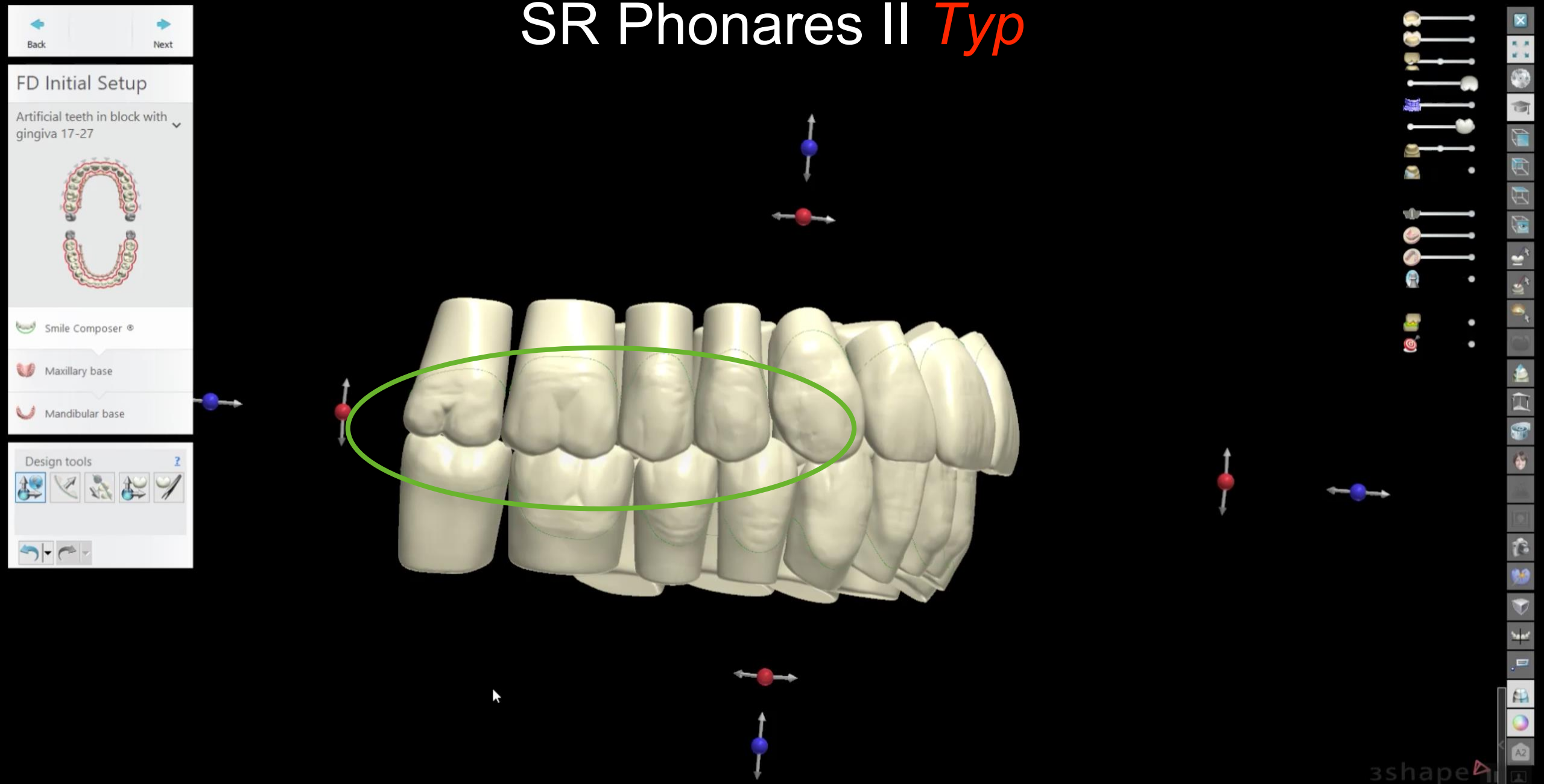
SR Phonares II *Typ*

- Two centric holding contacts
- Maxillary buccal cusp engaged (cheek biting)
- Multiple contacting surfaces, more challenging to interpret & equilibrate
- Intercuspation provides a more natural (anatomic) appearance

SR Phonares II *Typ*



SR Phonares II *Typ*



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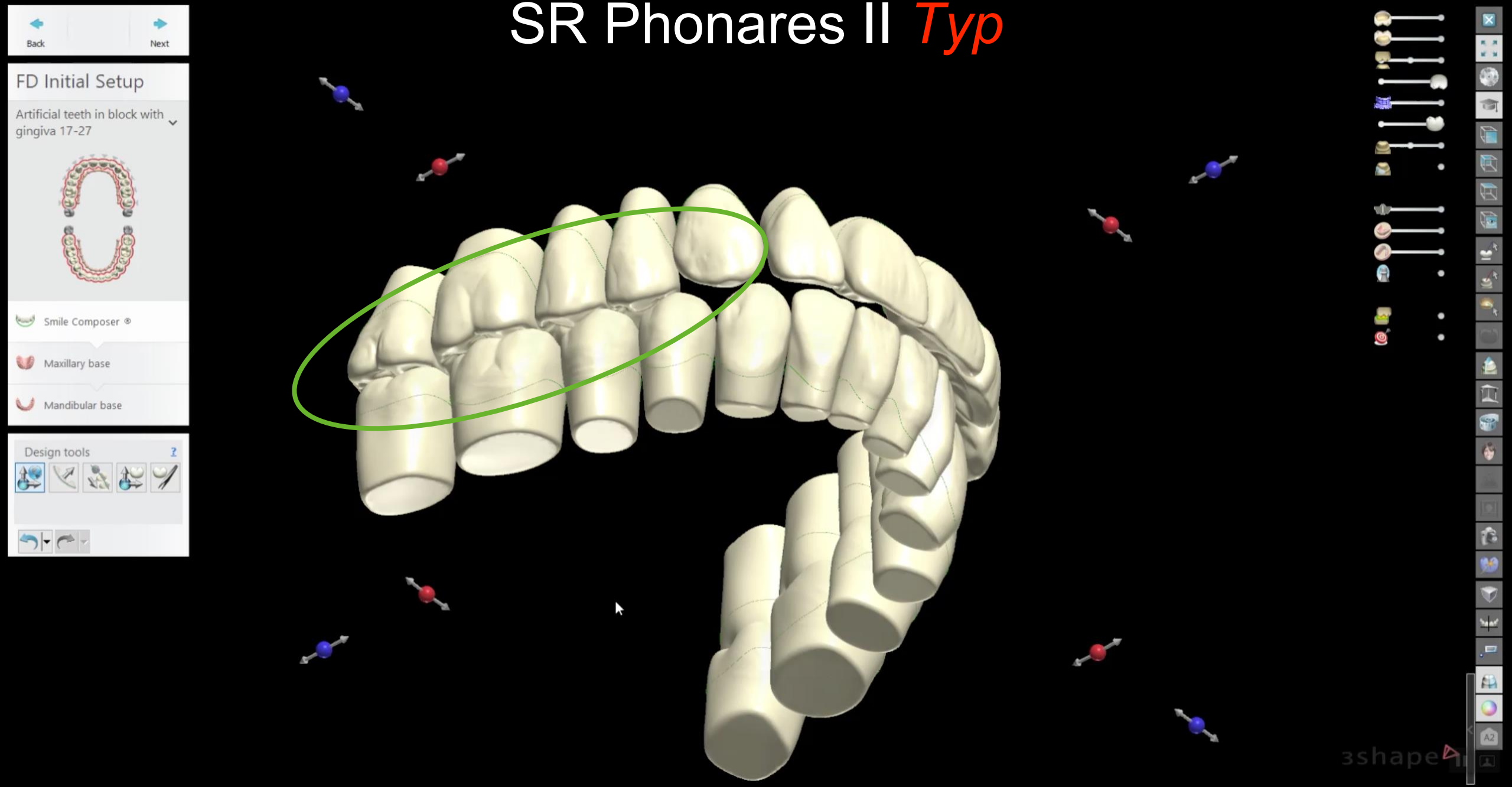

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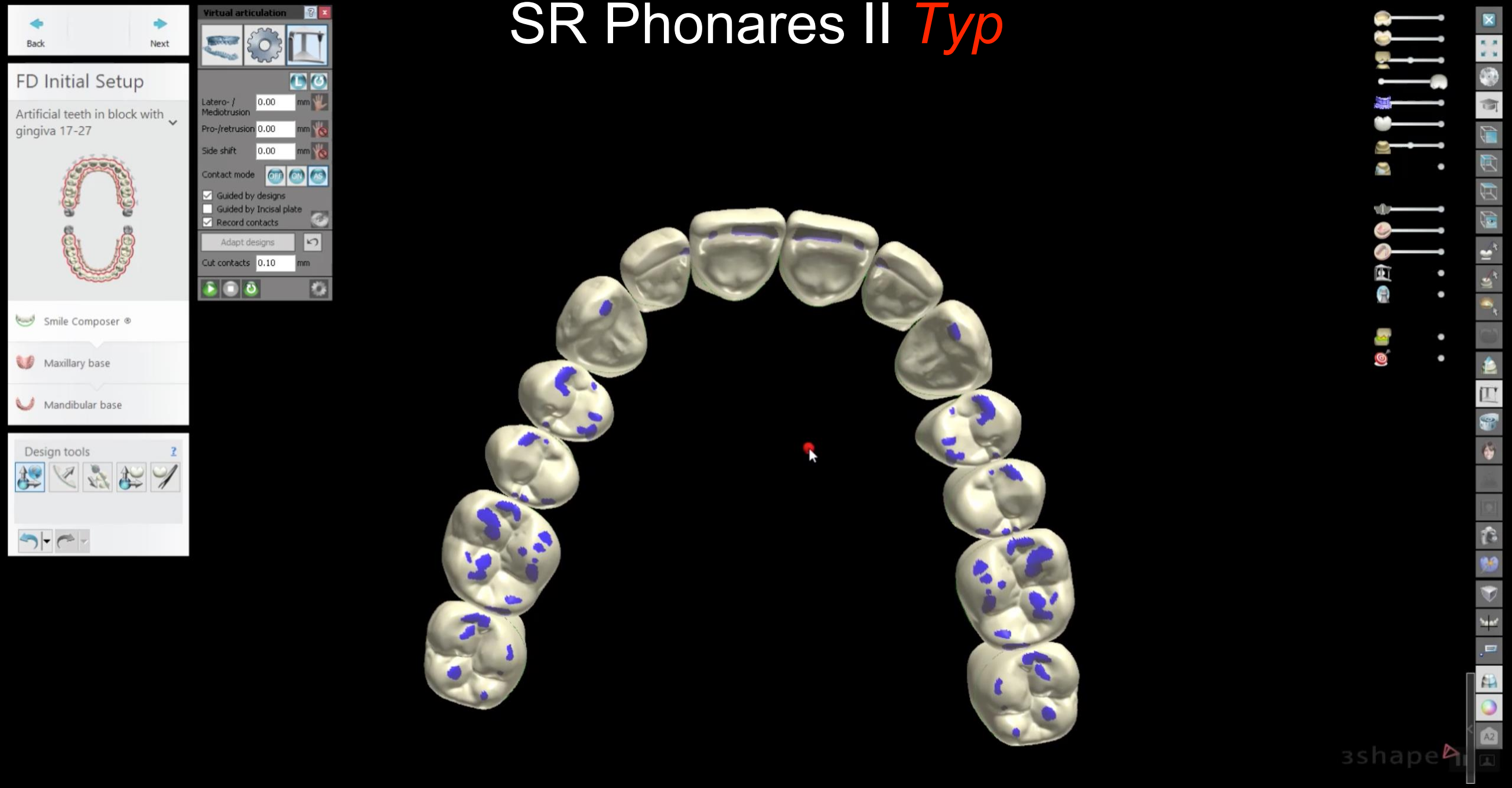
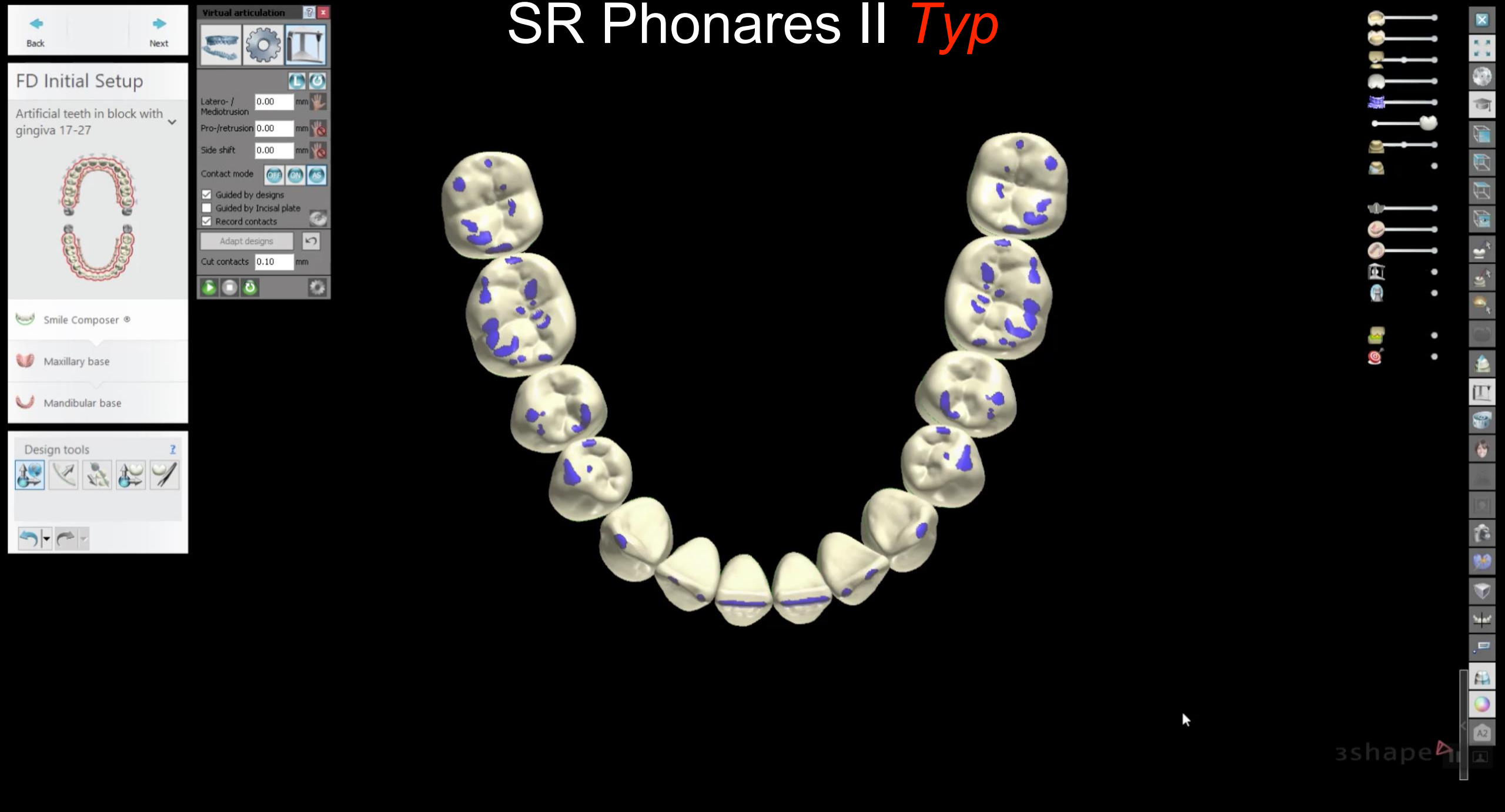


SR Phonares II *Typ*



Features of “Lungualized” occlusion

SR Phonares II *Lingual*

- One centric holding contact
- Maxillary buccal cusp disclussion (cheek biting)
- Adjustment confined to central fossa of mandibular teeth
- Fewer contacting surfaces, easier to interpret & equilibrate

SR Phonares II *Lingual*

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FD Initial Setup

Artificial teeth in block with gingiva 17-27

Smile Composer ®

Maxillary base

Mandibular base

Design tools

Virtual articulation

Latero- / Mediotrusion 0.00 mm

Pro-/retrusion 0.00 mm

Side shift 0.00 mm

Contact mode OFF ON AS

Guided by designs

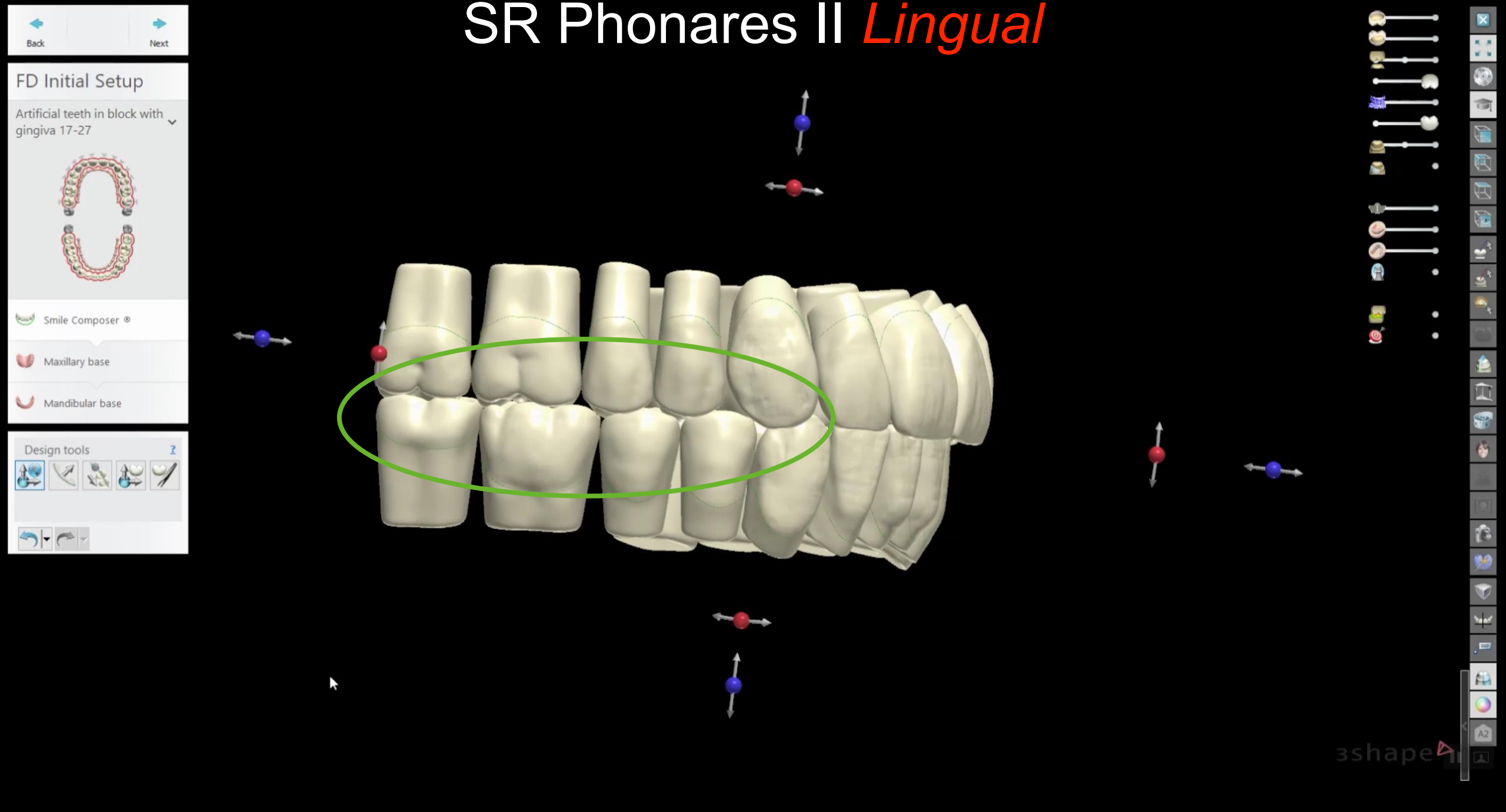
Guided by Incisal plate

Record contacts

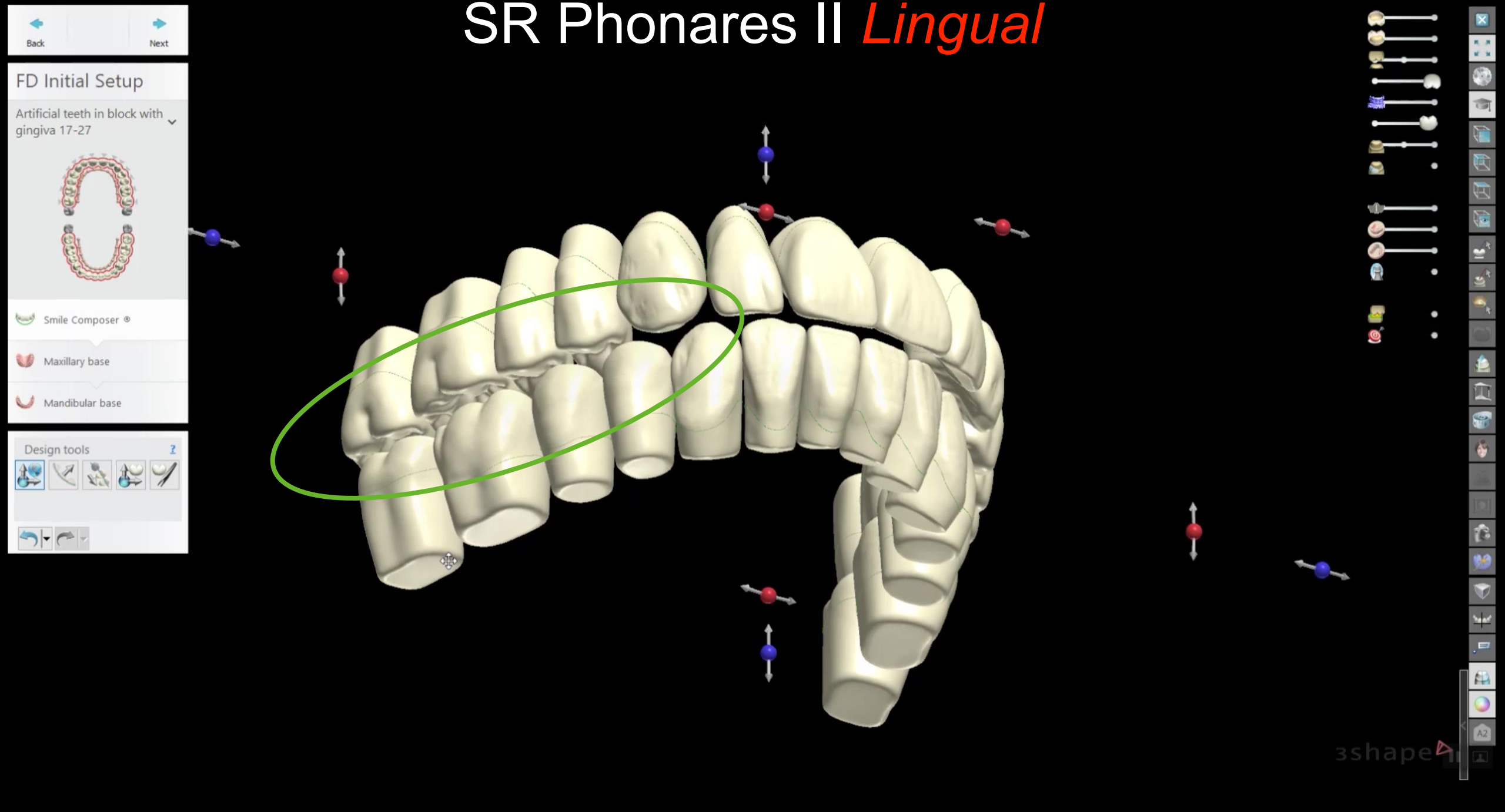
Adapt designs

Cut contacts 0.10 mm

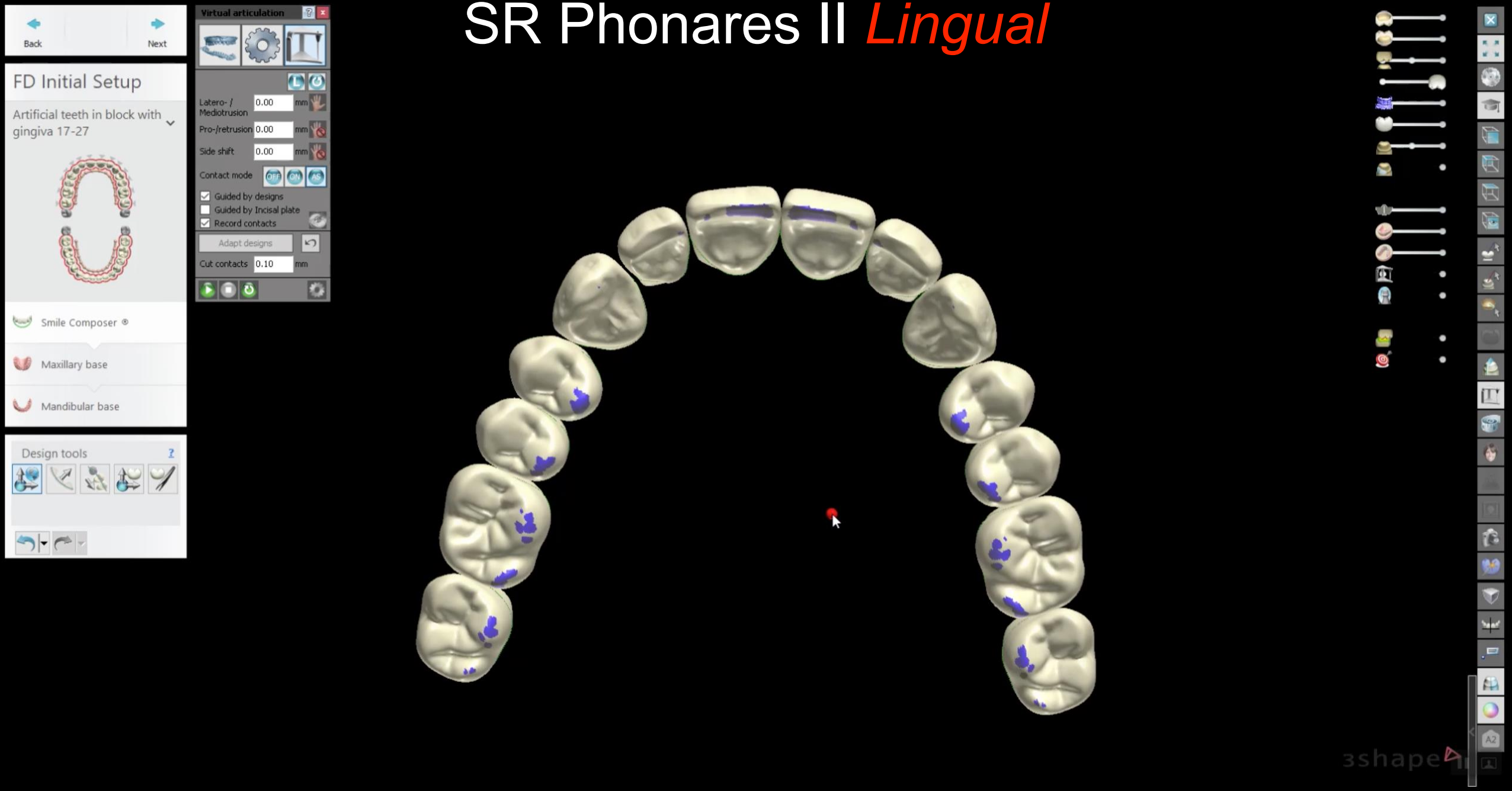
SR Phonares II *Lingual*



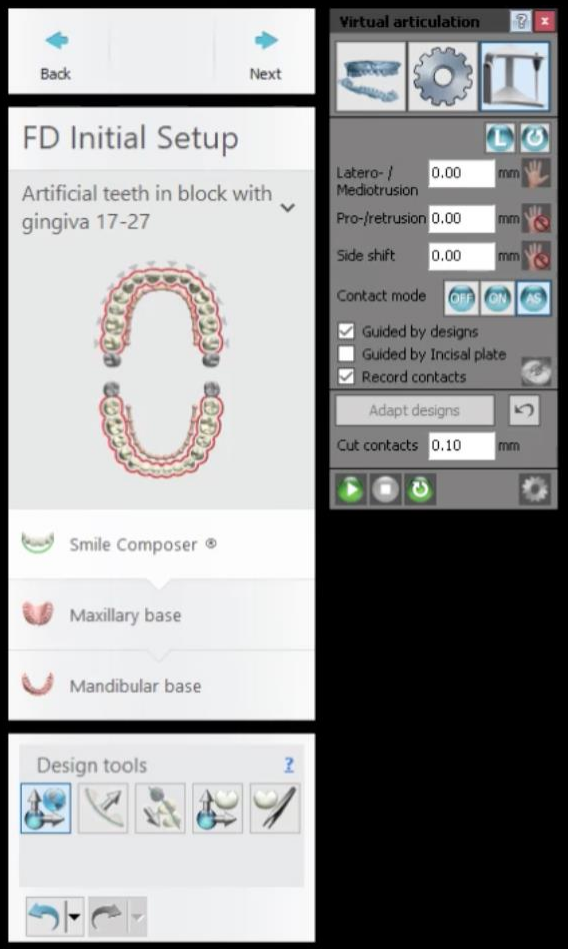
SR Phonares II *Lingual*

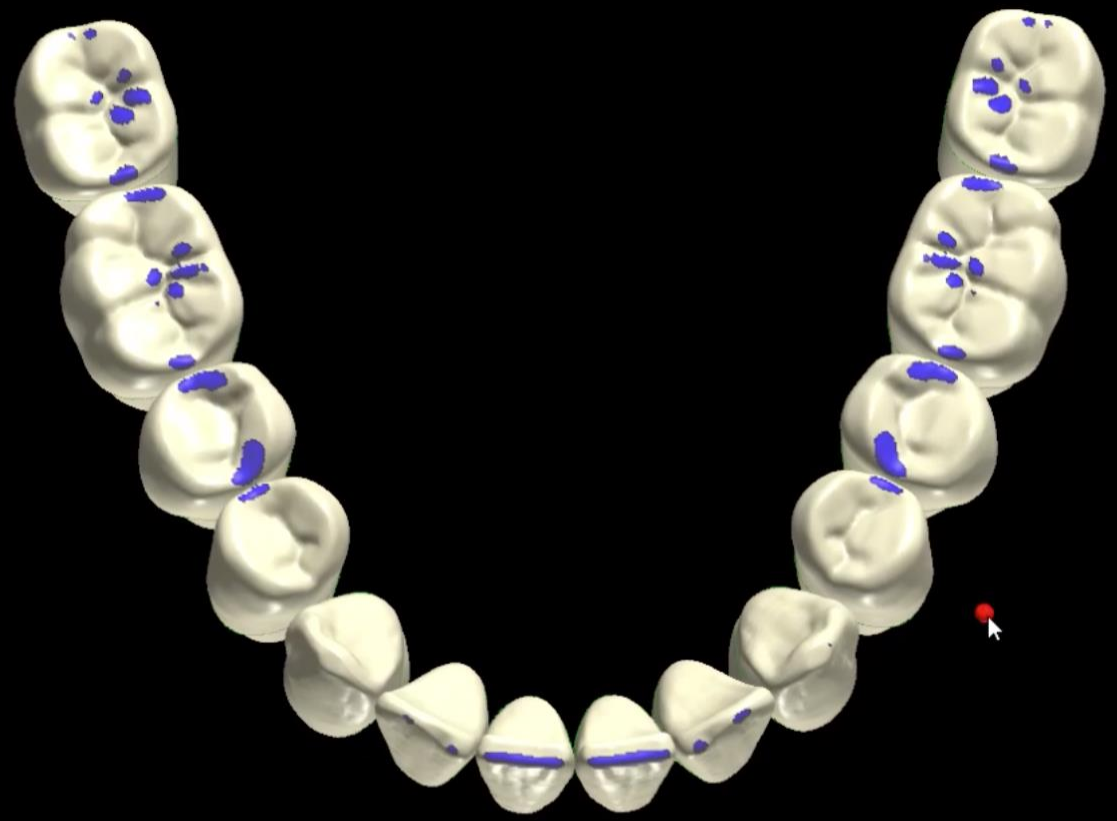


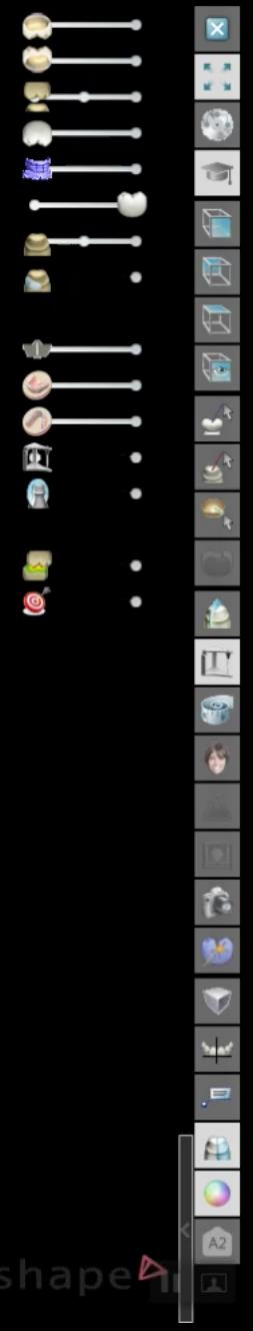
SR Phonares II *Lingual*



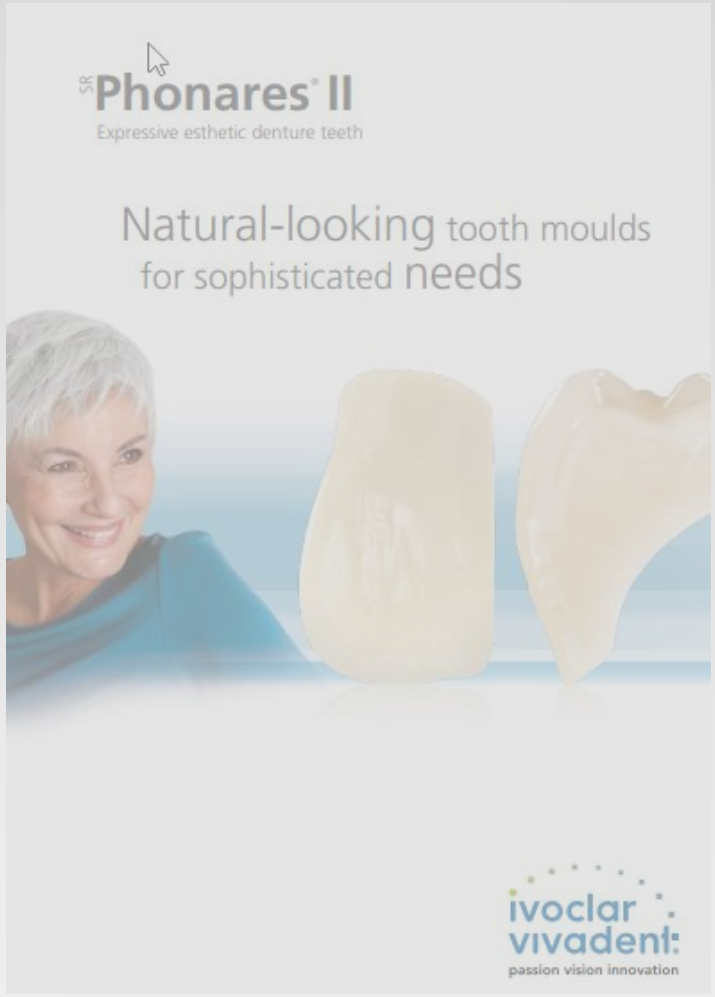
SR Phonares II *Lingual*







Tooth Mould Selection



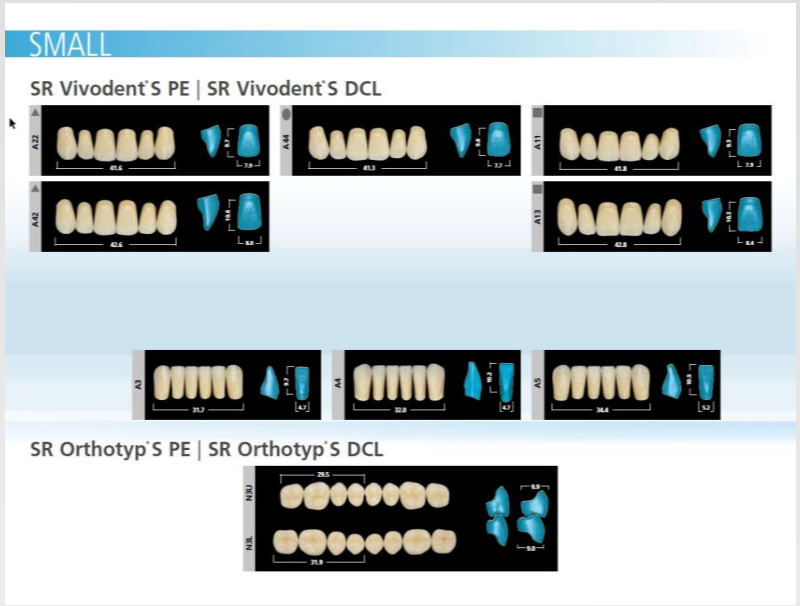
SR Vivodent S DCL

The **SR Vivodent S DCL** toothline uses the traditional characteristics of square/tapering/ovoid as well as the size categories (small/medium/large). The system is limited to 16 maxillary anterior moulds and is also an easy system to understand and to visualize. the SR Vivodent S DCL inter-proximal tooth contours are minimally tapered making them ideal for esthetic digital design similar to the Phonares II mould series.

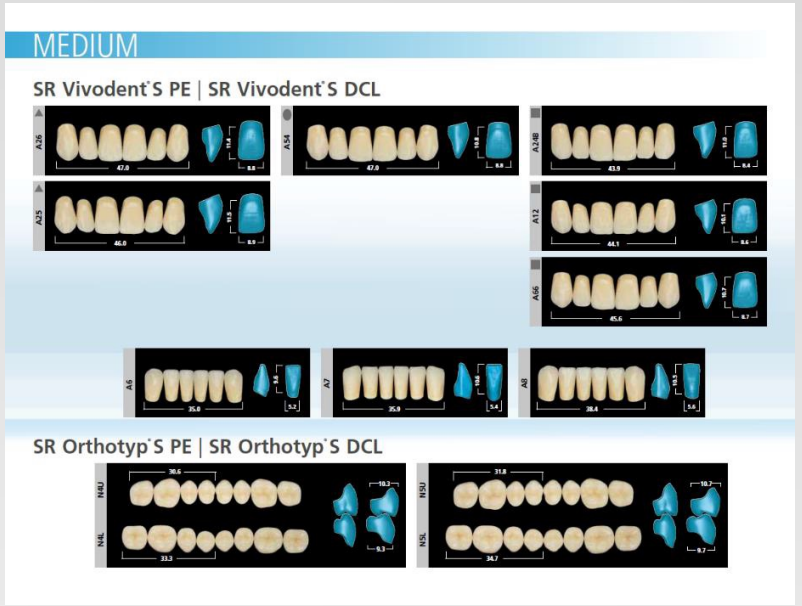
- The **traditional** Vivodent S DCL mould chart will illustrate the tooth mould organization
- The **digital** presentation of the tooth moulds will follow.
- Each size category (small, medium, large) will be digitally illustrated as a group and as individual moulds.
- An icon with tooth mould information is conveniently attached to each illustration for quick reference.

SR Vivodent S DCL

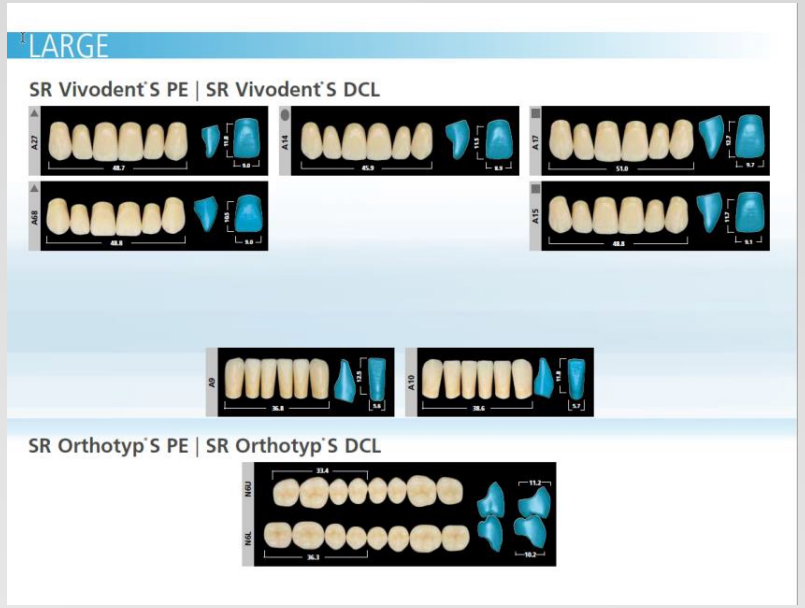
Small



Medium



Large



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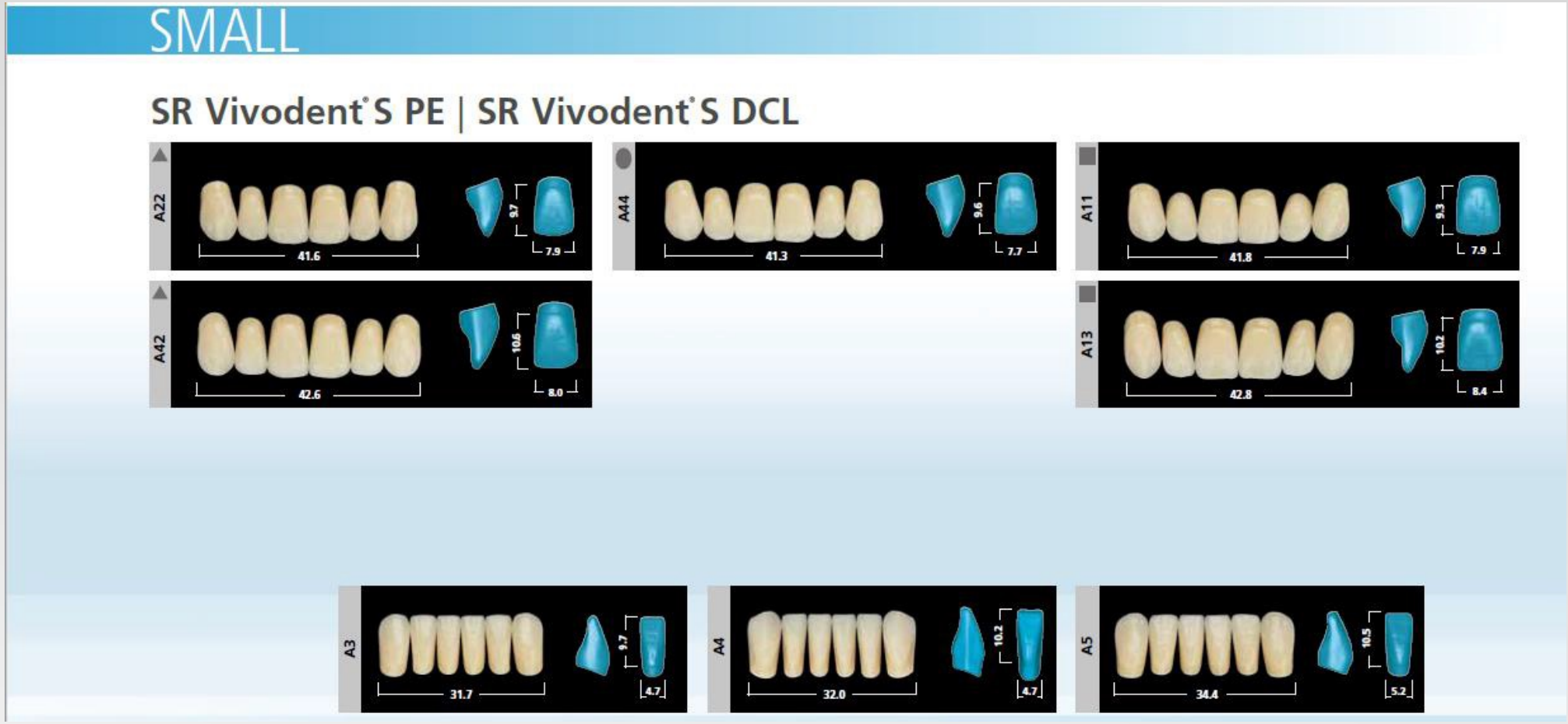
SR Vivodent S DCL | Small



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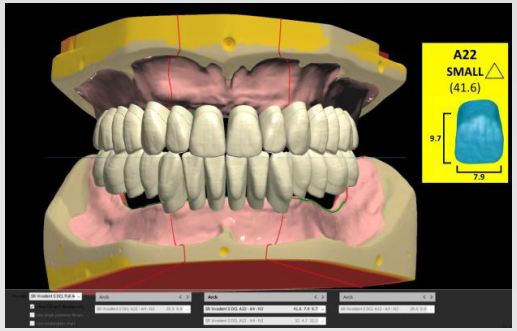
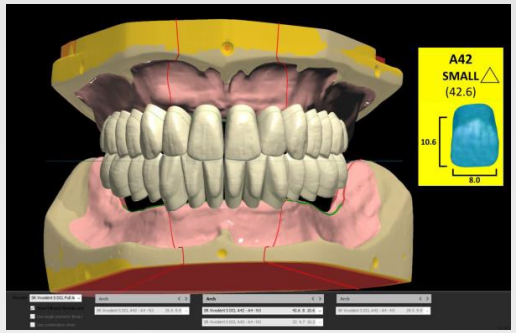
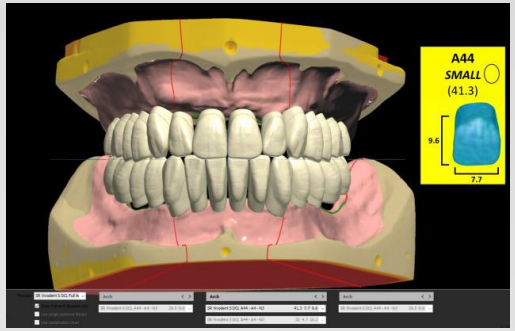
SR Vivodent S DCL | Small

Tapered ▲

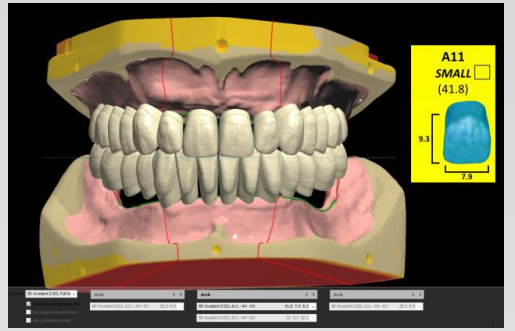


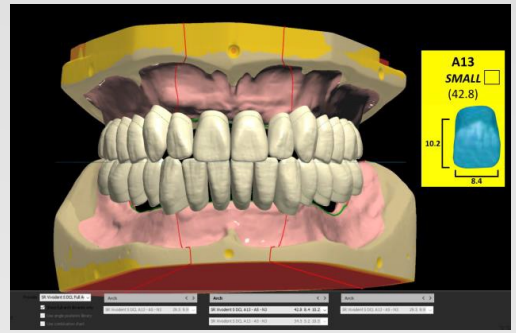


Ovoid ●



Square ■





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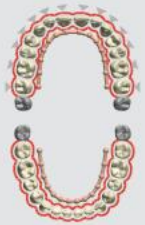
FD Initial Setup

Artificial teeth in block with gingiva 17-27



Smile Composer

Maxillary base

Mandibular base

Design tools ?

Model analysis

A22
SMALL △
(41.6)

Provider SR Vivodent S DCL Full An

Show full-arch libraries only
Use single posterior library
Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A22 - A4 - N3 29.5 9.9	SR Vivodent S DCL A22 - A4 - N3 41.6 7.9 9.7	SR Vivodent S DCL A22 - A4 - N3 29.5 9.9
	SR Vivodent S DCL A22 - A4 - N3 32 4.7 10.2	

3shape

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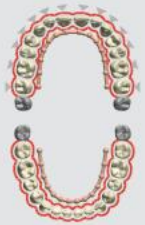
FD Initial Setup

Artificial teeth in block with gingiva 17-27



Smile Composer

Maxillary base

Mandibular base

Design tools ?

A42
SMALL △
(42.6)

Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only

Use single posterior library

Use combination chart

Apply

ngiva 17-27, 37-47

Arch

SR Vivodent S DCL A42 - A4 - N3 29.5 9.9

Arch

SR Vivodent S DCL A42 - A4 - N3 42.6 8 10.6

SR Vivodent S DCL A42 - A4 - N3 32 4.7 10.2

Arch

SR Vivodent S DCL A42 - A4 - N3 29.5 9.9

3shape

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11/2/2020

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Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
A44
SMALL
(41.3)
9.6
7.7
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A44 - A4 - N3 29.5 9.9
Arch
SR Vivodent S DCL A44 - A4 - N3 41.3 7.7 9.6
SR Vivodent S DCL A44 - A4 - N3 32 4.7 10.2
Arch
SR Vivodent S DCL A44 - A4 - N3 29.5 9.9
3shape
Desktop
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Monday
11/2/2020

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Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
A11
SMALL
(41.8)
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A11 - A4 - N3 29.5 9.9
Arch
SR Vivodent S DCL A11 - A4 - N3 41.8 7.9 9.3
SR Vivodent S DCL A11 - A4 - N3 32 4.7 10.2
Arch
SR Vivodent S DCL A11 - A4 - N3 29.5 9.9
3shape
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Monday
11/2/2020

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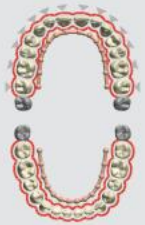
FD Initial Setup

Artificial teeth in block with gingiva 17-27



Smile Composer

Maxillary base

Mandibular base

Design tools ?

Surveying and Blocking out

A13
SMALL
(42.8)

Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only

Use single posterior library

Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A13 - A5 - N3 29.5 9.9	SR Vivodent S DCL A13 - A5 - N3 42.8 8.4 10.2	SR Vivodent S DCL A13 - A5 - N3 29.5 9.9
	SR Vivodent S DCL A13 - A5 - N3 34.5 5.2 10.5	

3shape

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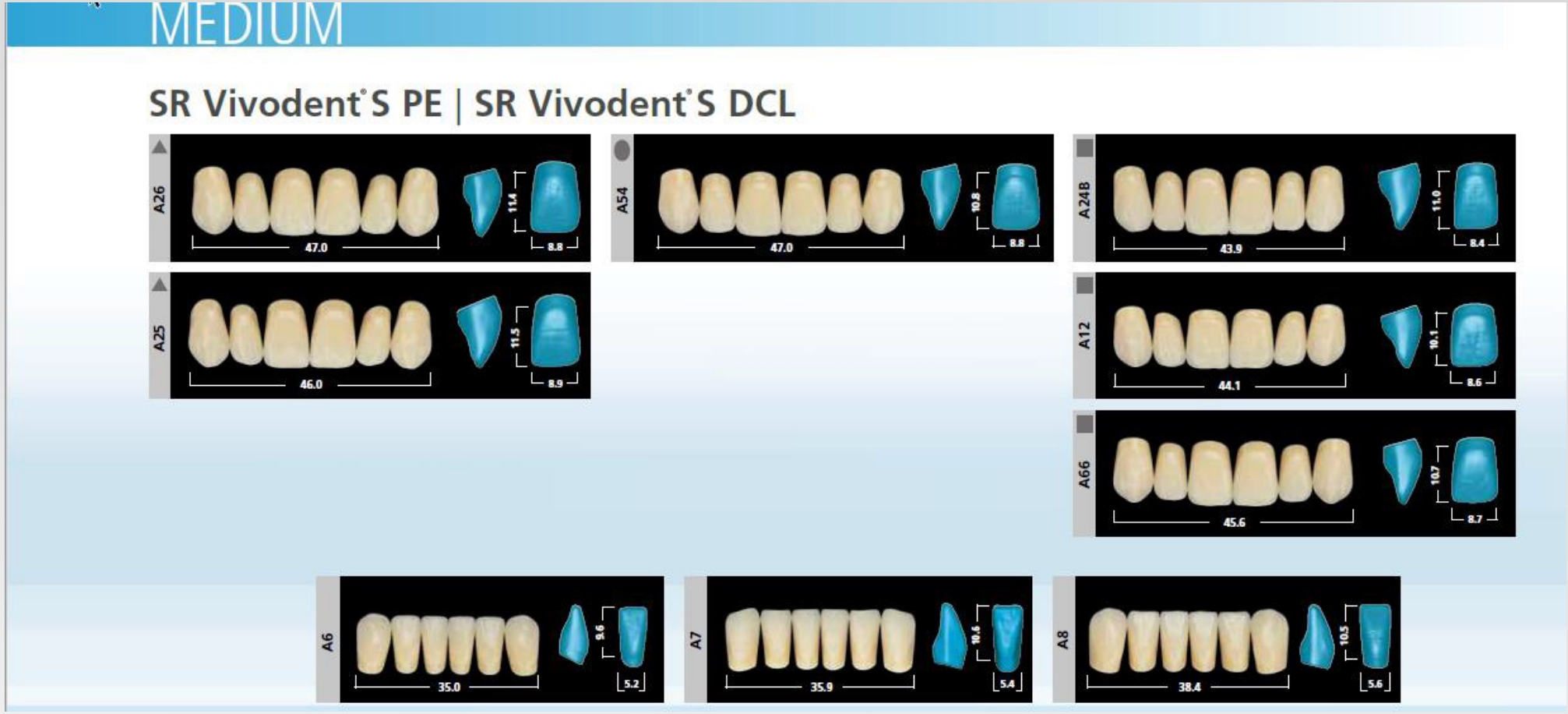
Monday
11/2/2020

SR Vivodent S DCL | Medium



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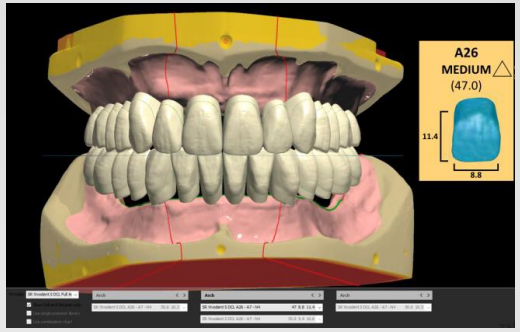
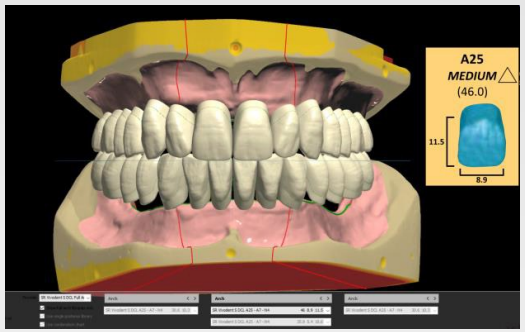
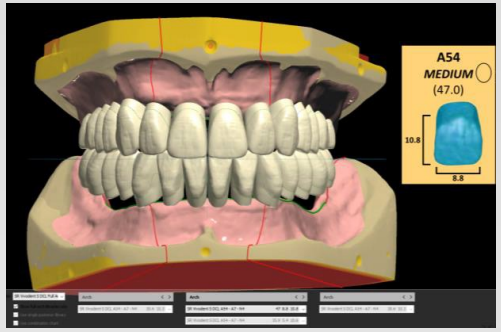
SR Vivodent S DCL | Medium

Tapered ▲

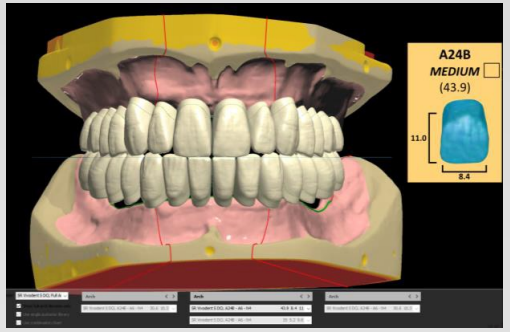


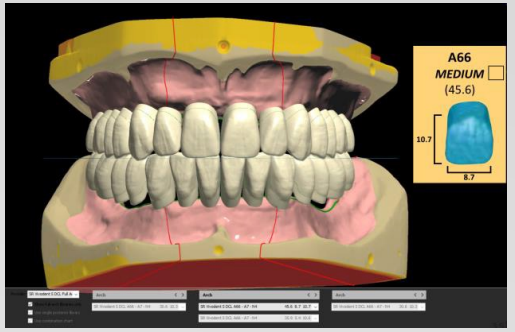


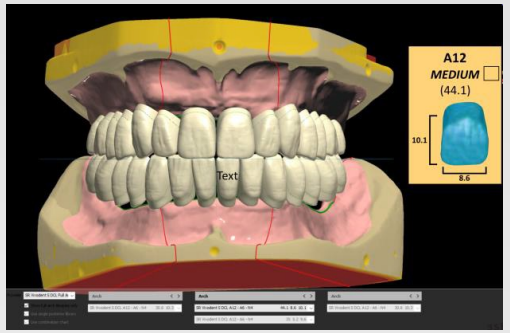
Ovoid ●



Square ■







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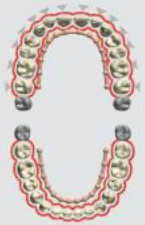
FD Initial Setup

Artificial teeth in block with gingiva 17-27



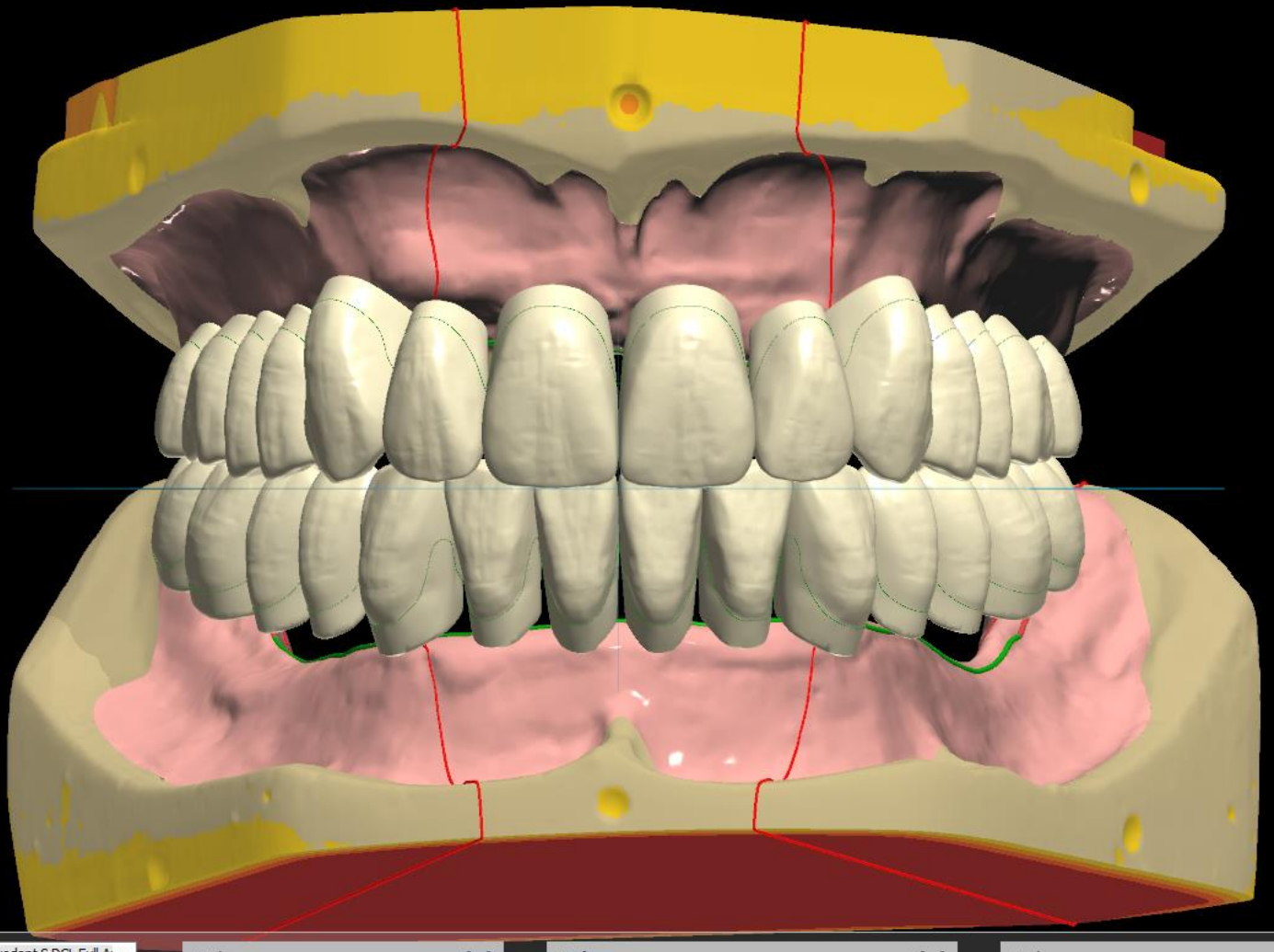
Smile Composer

Maxillary base

Mandibular base

Design tools ?

FD Initial Setup



A26
MEDIUM
(47.0)

Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only

Use single posterior library

Use combination chart

Apply

ngiva 17-27, 37-47

Arch SR Vivodent S DCL A26 - A7 - N4 30.6 10.3

Arch SR Vivodent S DCL A26 - A7 - N4 47 8.8 11.4

SR Vivodent S DCL A26 - A7 - N4 35.9 5.4 10.6

Arch SR Vivodent S DCL A26 - A7 - N4 30.6 10.3

3shape

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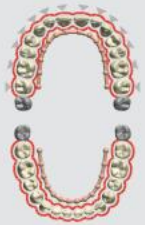
FD Initial Setup

Artificial teeth in block with gingiva 17-27

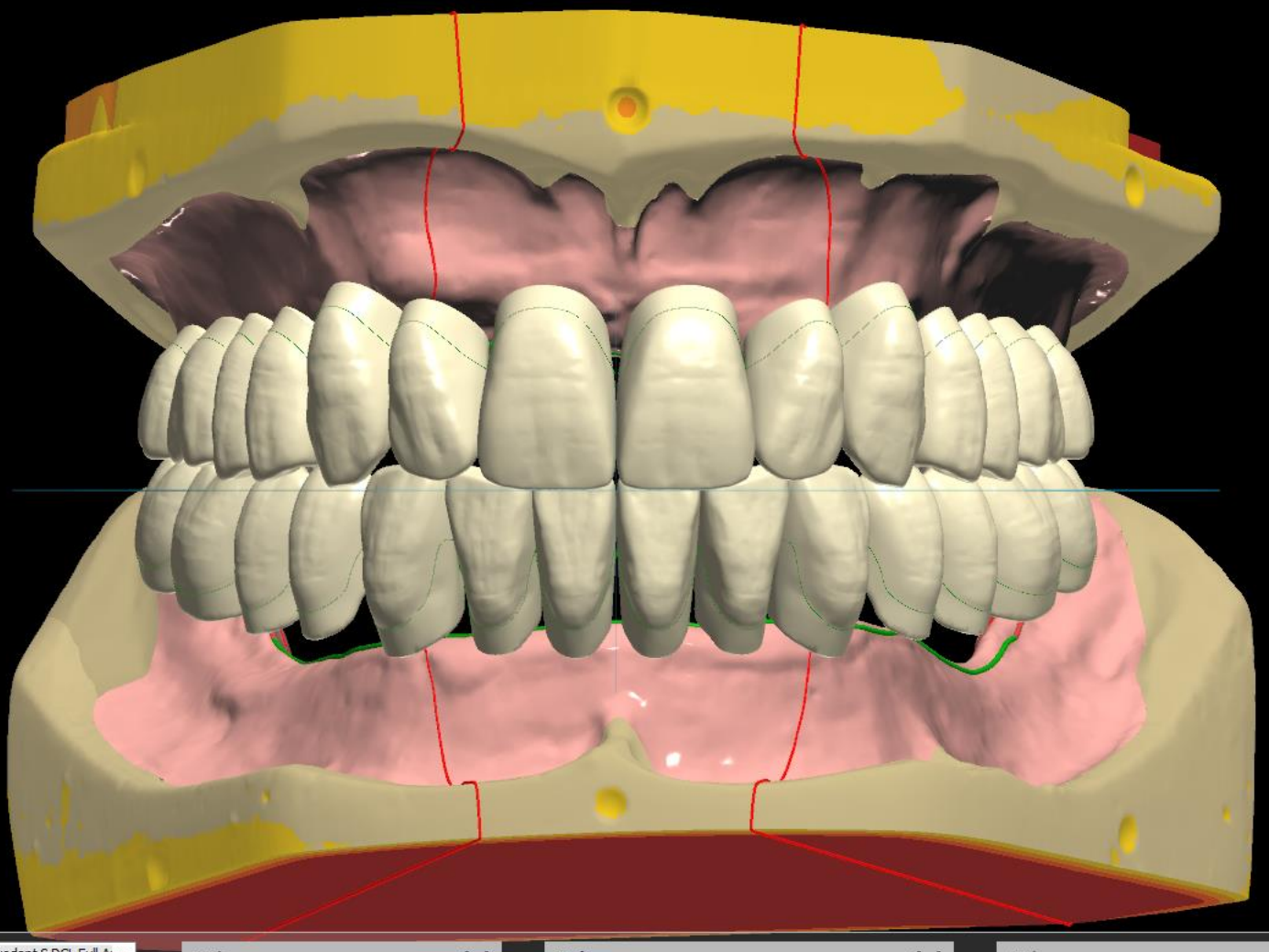


Smile Composer

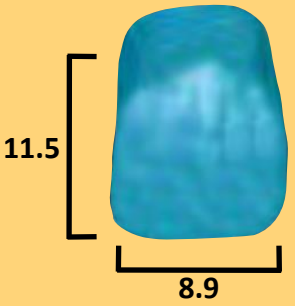
Maxillary base

Mandibular base

Design tools ?



A25
MEDIUM
(46.0)



Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only

Use single posterior library

Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A25 - A7 - N4 30.6 10.3	SR Vivodent S DCL A25 - A7 - N4 46 8.9 11.5	SR Vivodent S DCL A25 - A7 - N4 30.6 10.3
	SR Vivodent S DCL A25 - A7 - N4 35.9 5.4 10.6	

3shape

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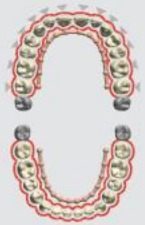
Artificial teeth in block with gingiva 17-27

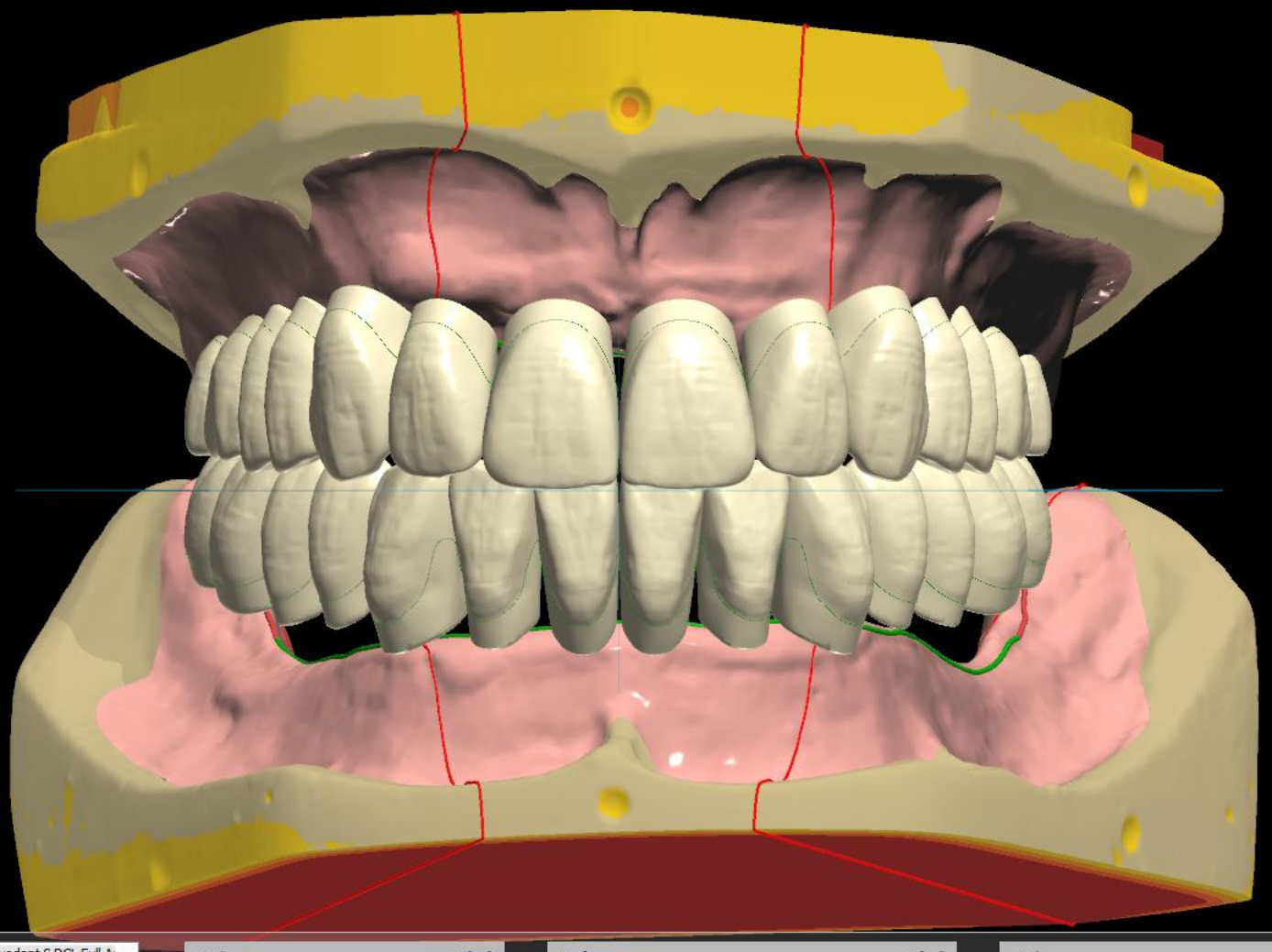


Smile Composer

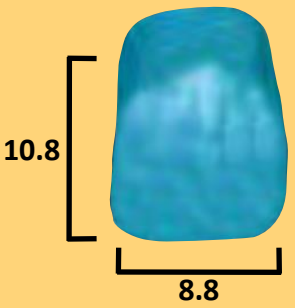
Maxillary base

Mandibular base

Design tools ?



A54
MEDIUM
(47.0)



Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only
Use single posterior library
Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A54 - A7 - N4 30.6 10.3	SR Vivodent S DCL A54 - A7 - N4 47 8.8 10.8	SR Vivodent S DCL A54 - A7 - N4 30.6 10.3
	SR Vivodent S DCL A54 - A7 - N4 35.9 5.4 10.6	

3shape

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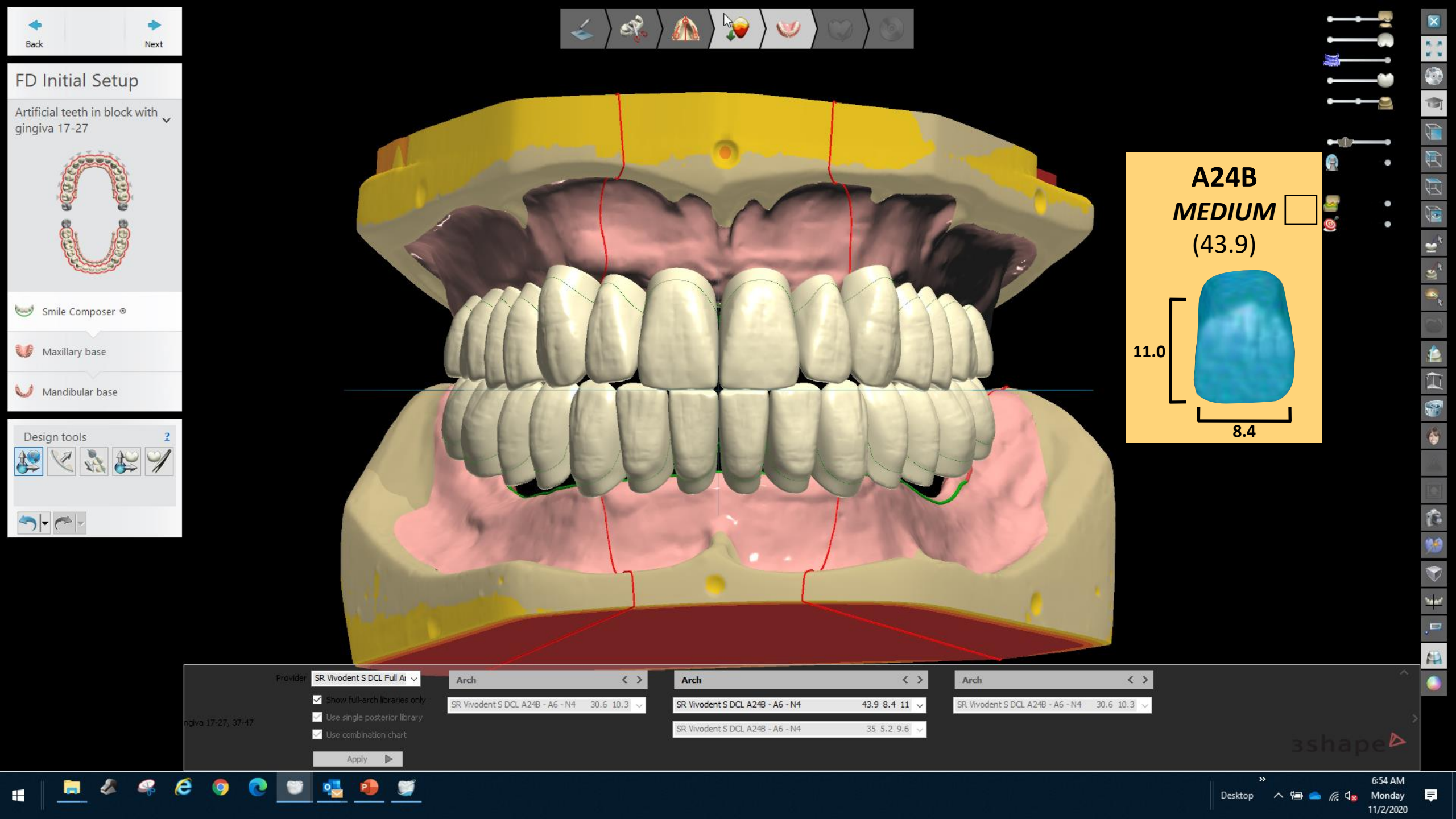
Back
Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
A24B
MEDIUM
(43.9)
11.0
8.4
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A24B - A6 - N4 30.6 10.3
Arch
SR Vivodent S DCL A24B - A6 - N4 43.9 8.4 11
SR Vivodent S DCL A24B - A6 - N4 35 5.2 9.6
Arch
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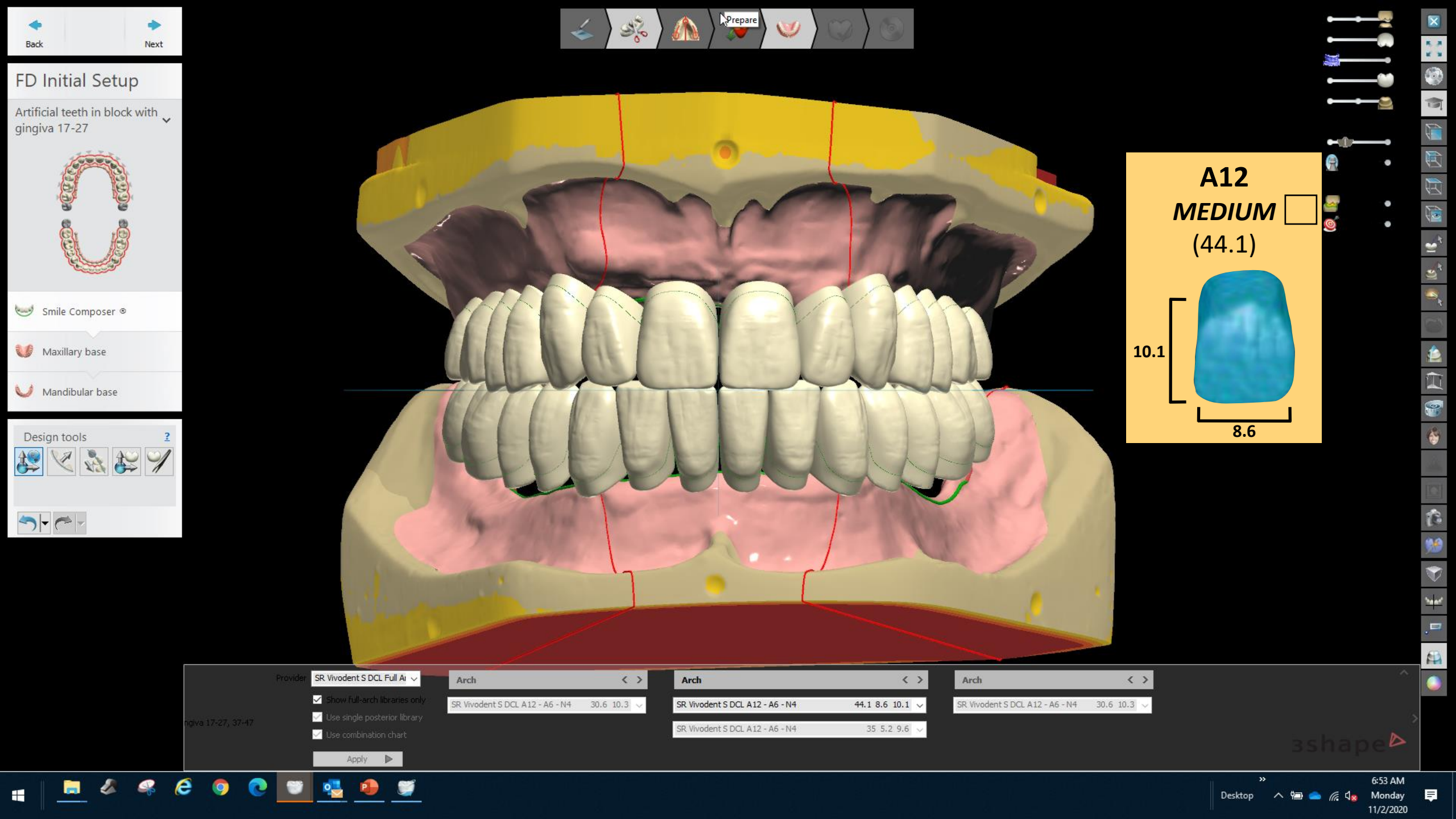
Monday
11/2/2020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FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
Prepare
A12
MEDIUM
(44.1)
10.1
8.6
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A12 - A6 - N4 30.6 10.3
Arch
SR Vivodent S DCL A12 - A6 - N4 44.1 8.6 10.1
SR Vivodent S DCL A12 - A6 - N4 35 5.2 9.6
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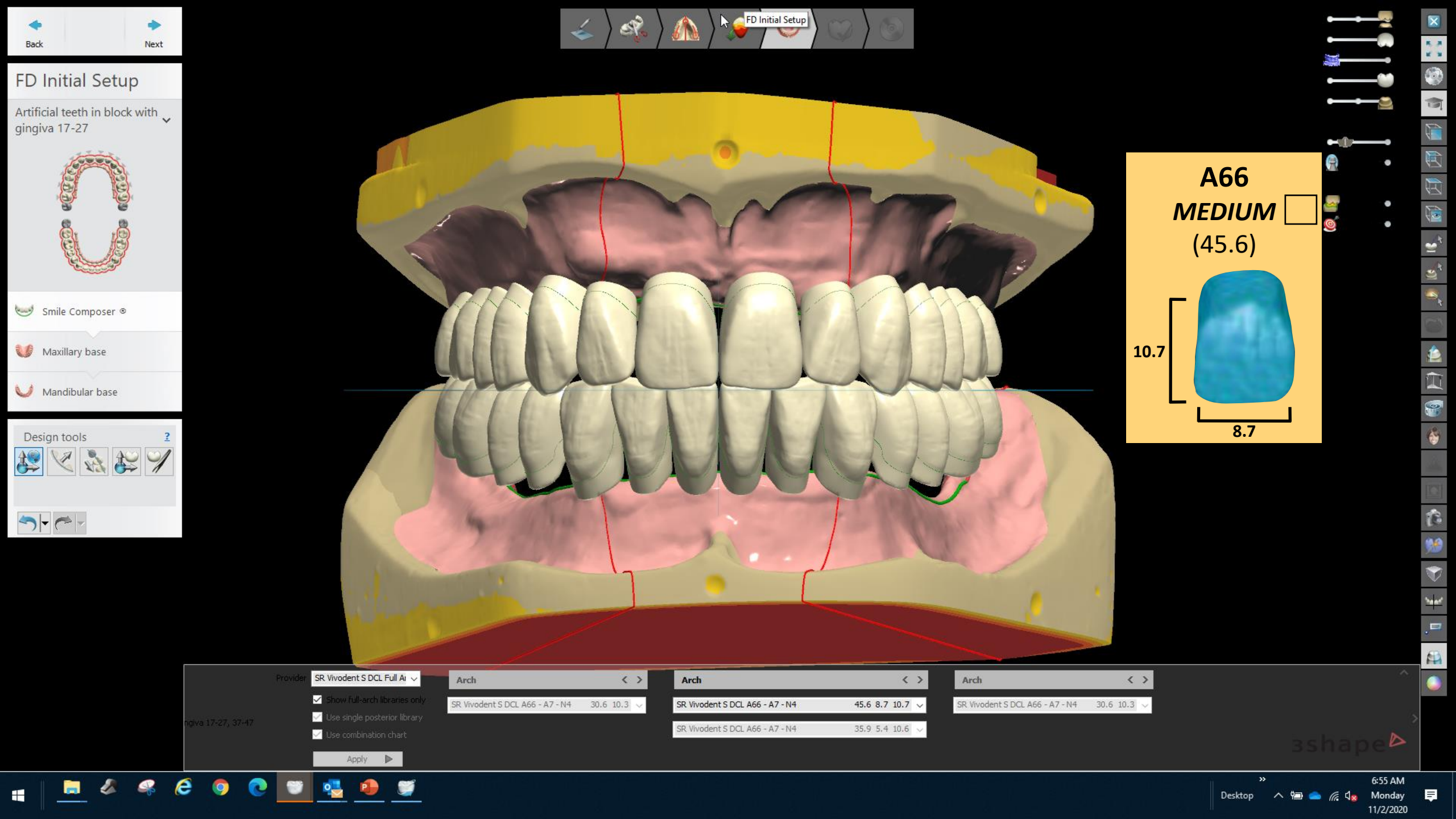
11/2/2020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FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
FD Initial Setup
A66
MEDIUM
(45.6)
10.7
8.7
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A66 - A7 - N4 30.6 10.3
Arch
SR Vivodent S DCL A66 - A7 - N4 45.6 8.7 10.7
SR Vivodent S DCL A66 - A7 - N4 35.9 5.4 10.6
Arch
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3shape
Desktop
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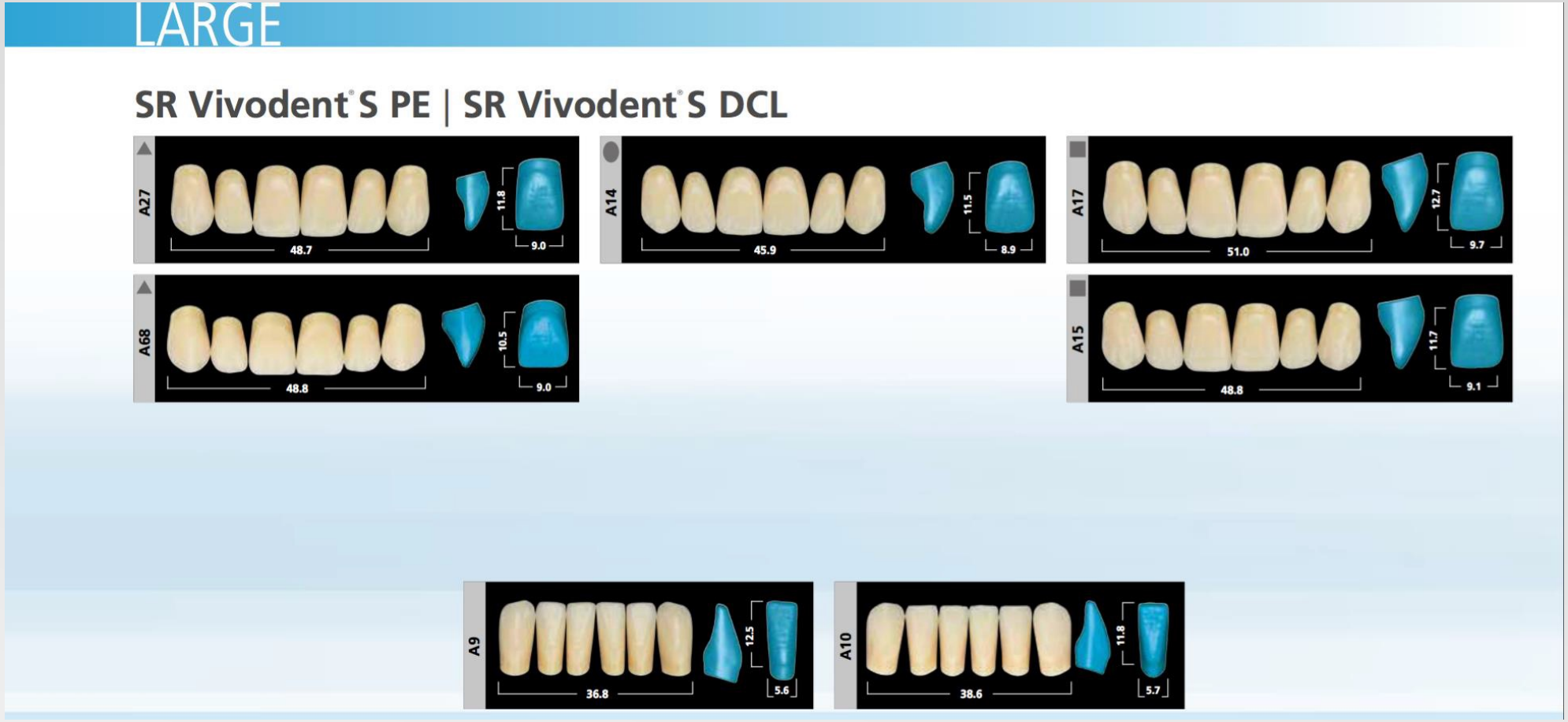
Monday
11/2/2020

SR Vivodent S DCL | Large



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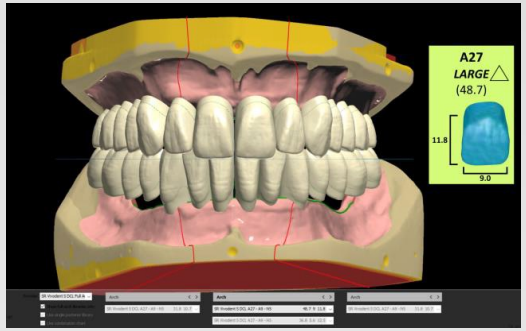
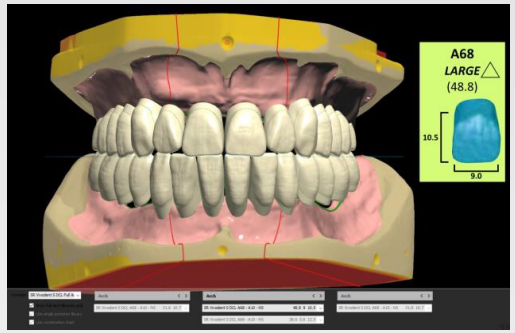
MICRODENTAL LABORATORIES

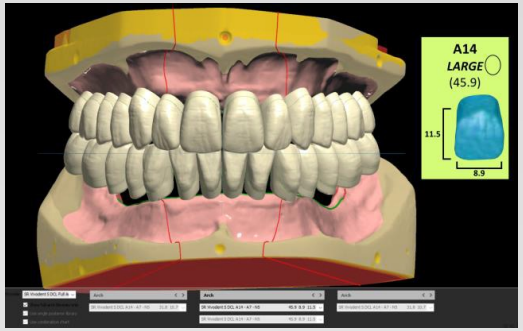
SR Vivodent S DCL | Large

Tapered ▲

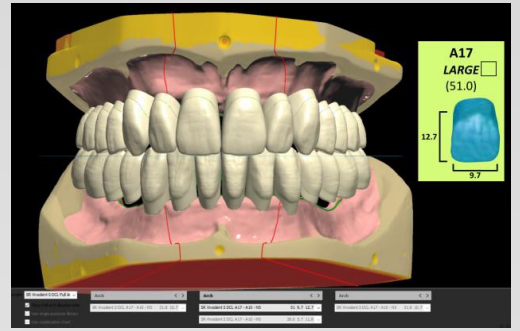


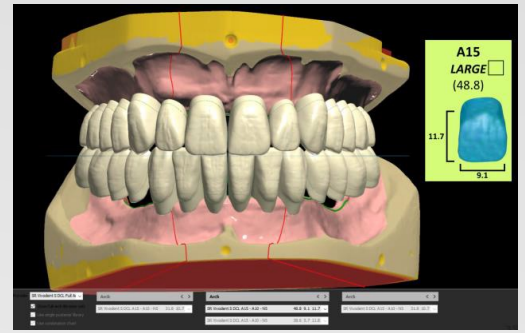


Ovoid ●



Square ■





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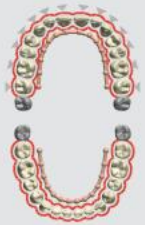
FD Initial Setup

Artificial teeth in block with gingiva 17-27



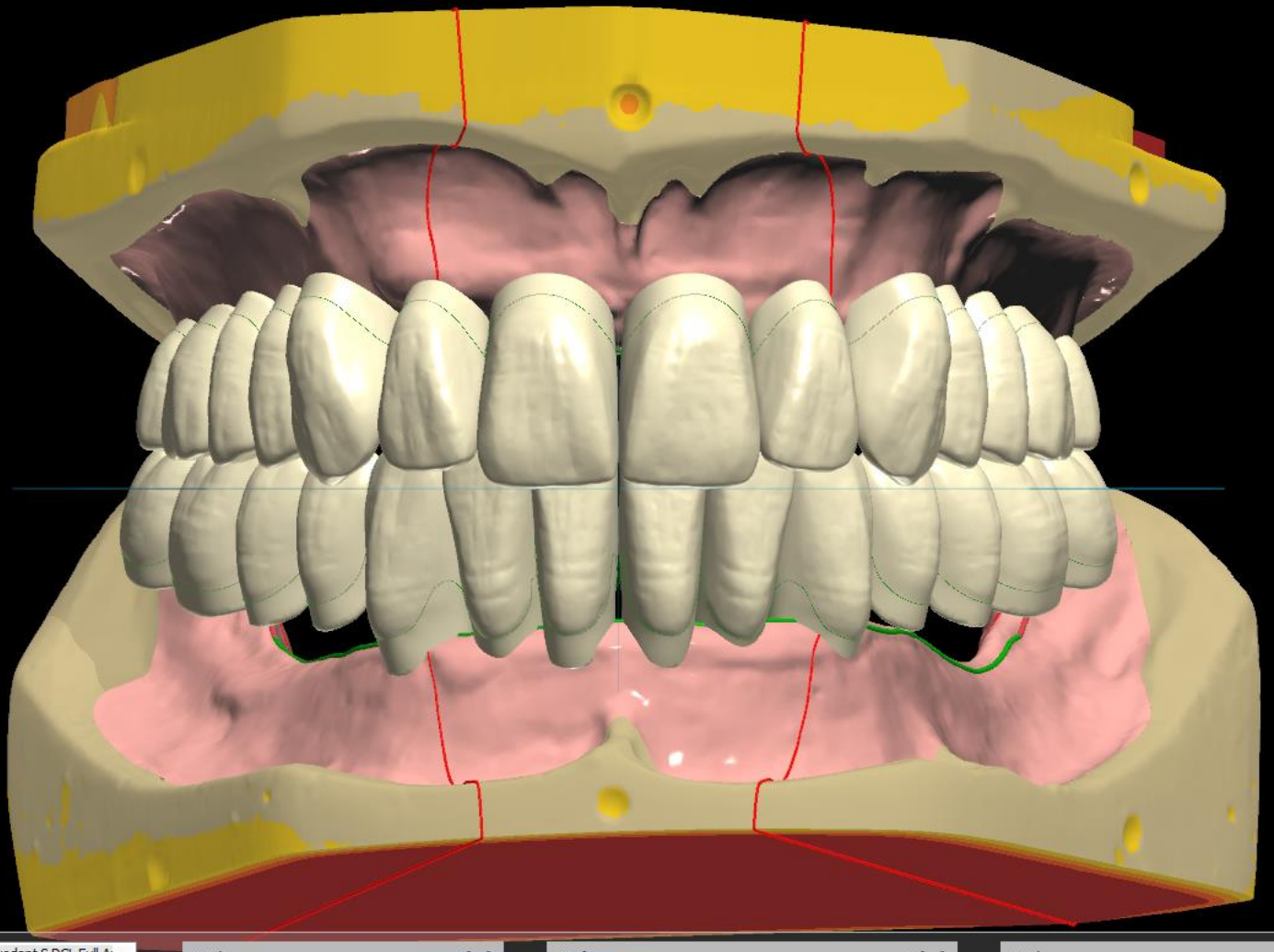
Smile Composer

Maxillary base

Mandibular base

Design tools ?

Model analysis



A27
LARGE △
(48.7)

Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only
Use single posterior library
Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A27 - A9 - N5 31.8 10.7	SR Vivodent S DCL A27 - A9 - N5 48.7 9 11.8	SR Vivodent S DCL A27 - A9 - N5 31.8 10.7
	SR Vivodent S DCL A27 - A9 - N5 36.8 5.6 12.5	

3shape

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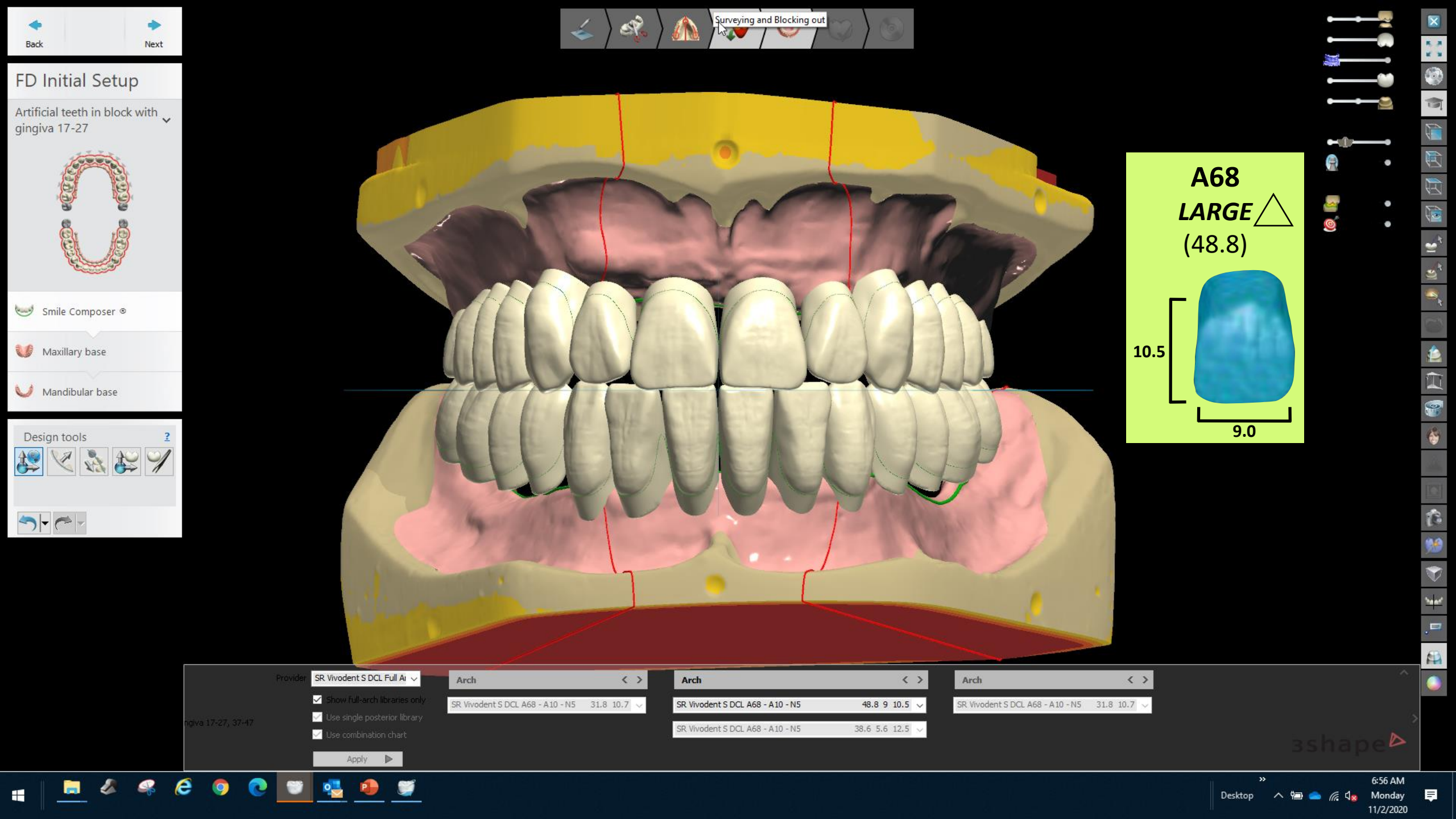
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Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
Surveying and Blocking out
A68
LARGE
(48.8)
10.5
9.0
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A68 - A10 - N5 31.8 10.7
Arch
SR Vivodent S DCL A68 - A10 - N5 48.8 9 10.5
SR Vivodent S DCL A68 - A10 - N5 38.6 5.6 12.5
Arch
SR Vivodent S DCL A68 - A10 - N5 31.8 10.7
3shape
Desktop
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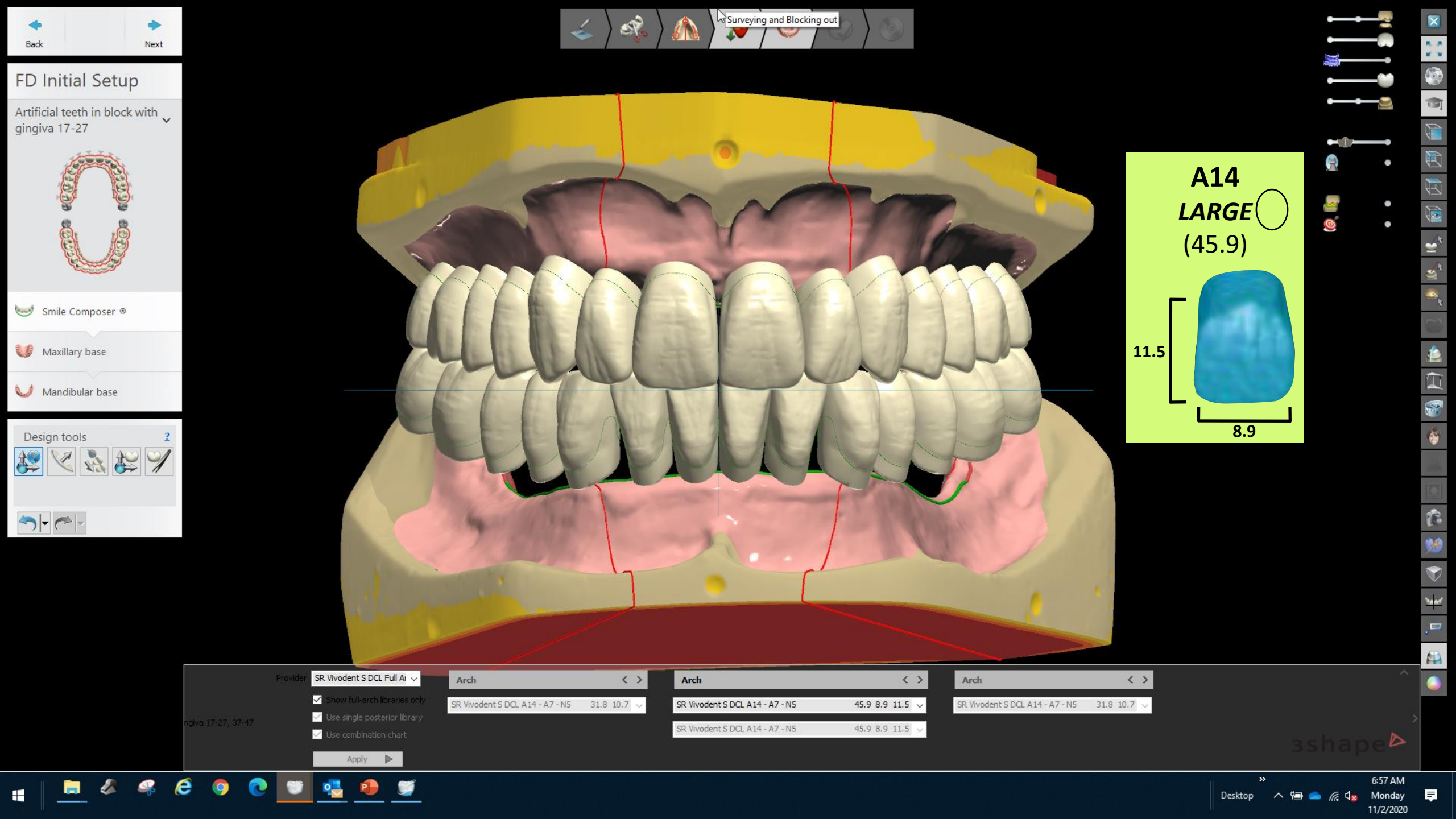
Monday
11/2/2020


Back
Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
Surveying and Blocking out
A14
LARGE
(45.9)
11.5
8.9
Provider
SR Vivodent S DCL Full A
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A14 - A7 - N5 31.8 10.7
Arch
SR Vivodent S DCL A14 - A7 - N5 45.9 8.9 11.5
SR Vivodent S DCL A14 - A7 - N5 45.9 8.9 11.5
Arch
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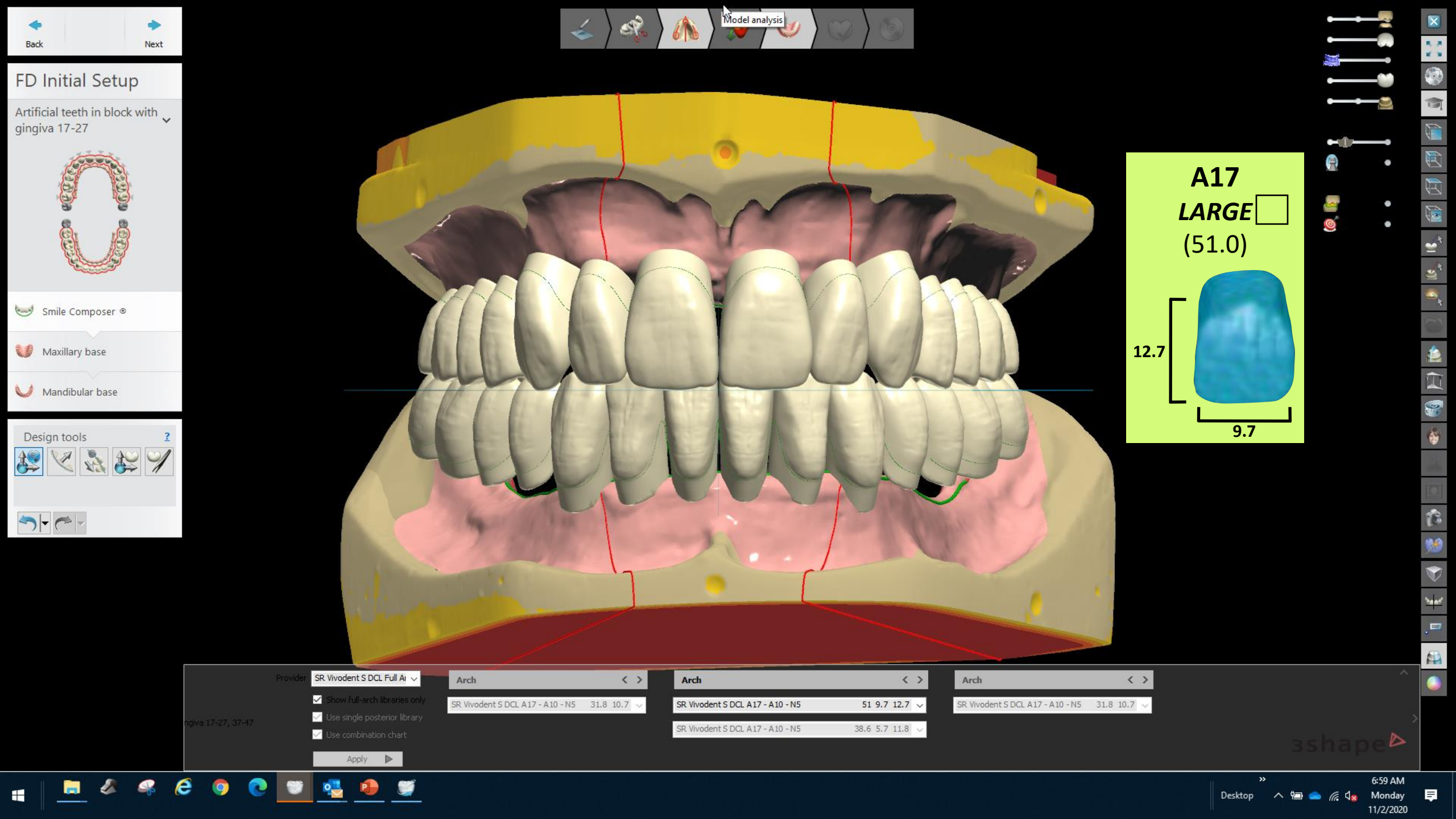
Monday
11/2/2020


Back
Next
FD Initial Setup
Artificial teeth in block with gingiva 17-27
Smile Composer
Maxillary base
Mandibular base
Design tools
Model analysis
A17
LARGE
(51.0)
12.7
9.7
Provider
SR Vivodent S DCL Full Ar
Show full-arch libraries only
Use single posterior library
Use combination chart
Apply
Arch
SR Vivodent S DCL A17 - A10 - N5 31.8 10.7
Arch
SR Vivodent S DCL A17 - A10 - N5 51 9.7 12.7
SR Vivodent S DCL A17 - A10 - N5 38.6 5.7 11.8
Arch
SR Vivodent S DCL A17 - A10 - N5 31.8 10.7
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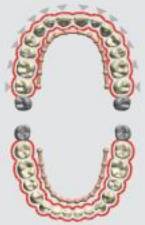
FD Initial Setup

Artificial teeth in block with gingiva 17-27



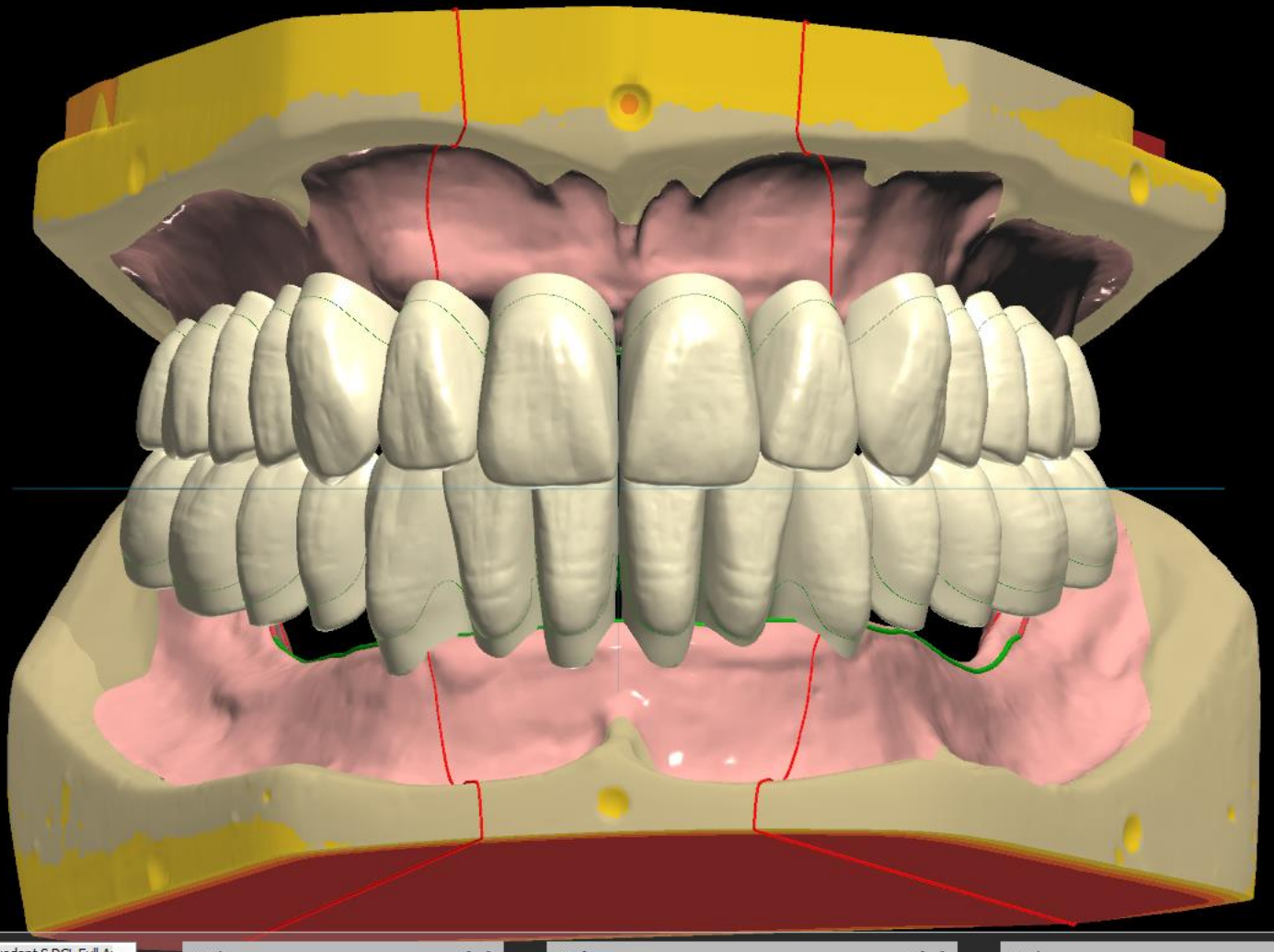
Smile Composer

Maxillary base

Mandibular base

Design tools ?

Model analysis



A27
LARGE △
(48.7)

Provider SR Vivodent S DCL Full Ar

Show full-arch libraries only
Use single posterior library
Use combination chart

Apply

ngiva 17-27, 37-47

Arch	Arch	Arch
SR Vivodent S DCL A27 - A9 - N5 31.8 10.7	SR Vivodent S DCL A27 - A9 - N5 48.7 9 11.8	SR Vivodent S DCL A27 - A9 - N5 31.8 10.7
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3shape

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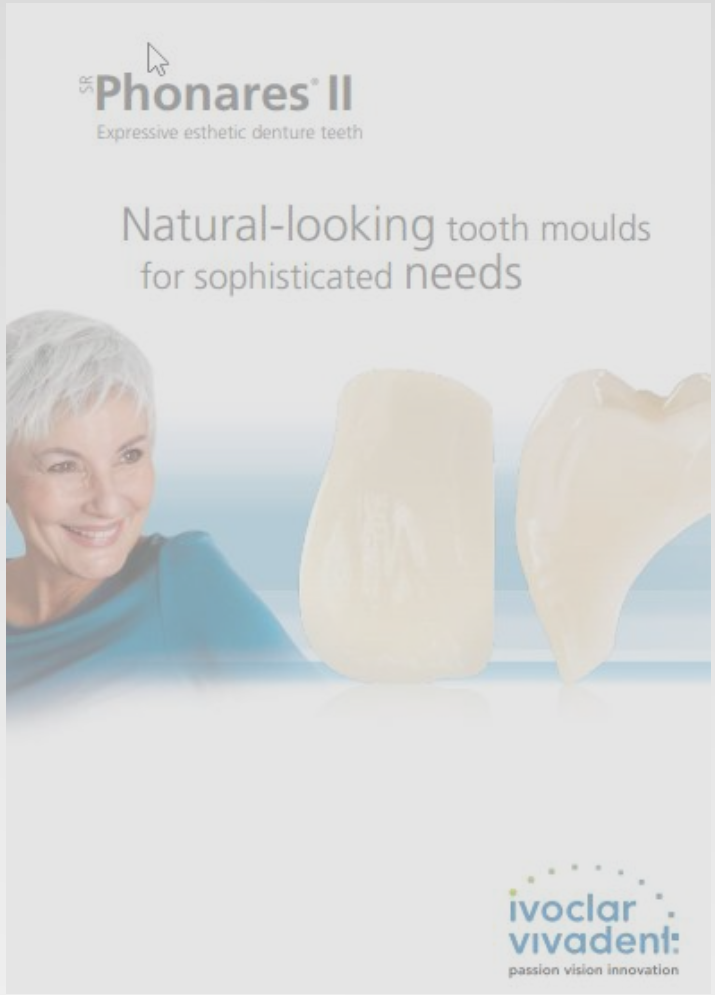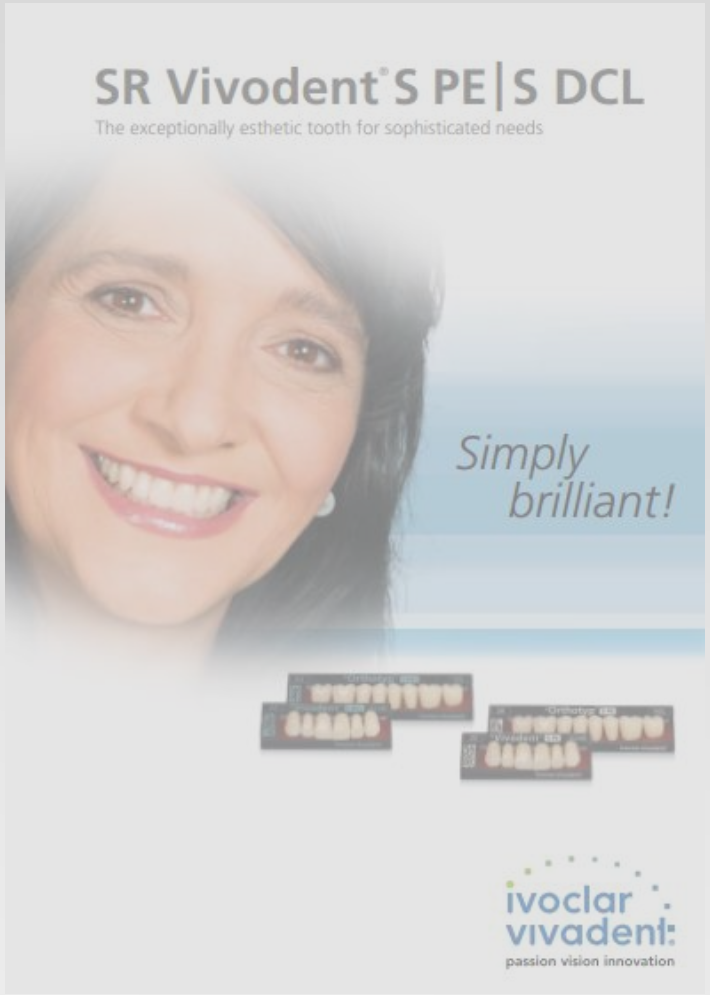
Tooth Mould Selection