DentiqGuide

I can't create a surgical guide
I can't remove the tooth

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Address : 138-412 Institute of Computer Technology, Seoul National University, Seoul, South Korea
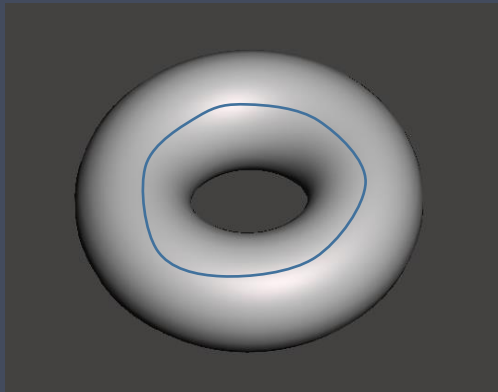Website : www.3dii.net

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- When the geodetic line is set up on the mesh of the donut model as below, the inside and outside of the geodetic line are connected, so it cannot be distinguished. It's like a Mobius strip where it's hard to check where's outside or inside.
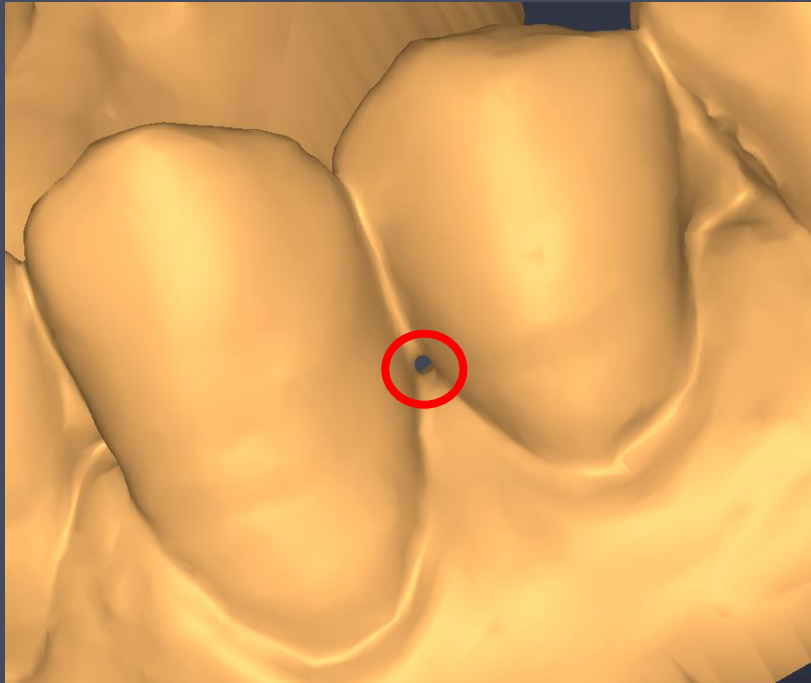

- If there are holes in the scan data, both the inner and outer sides should avoid the holes to set the geodetic line, or both the inner and outer sides should include the holes. If geodetic line pass through the hole, the operation will fail.
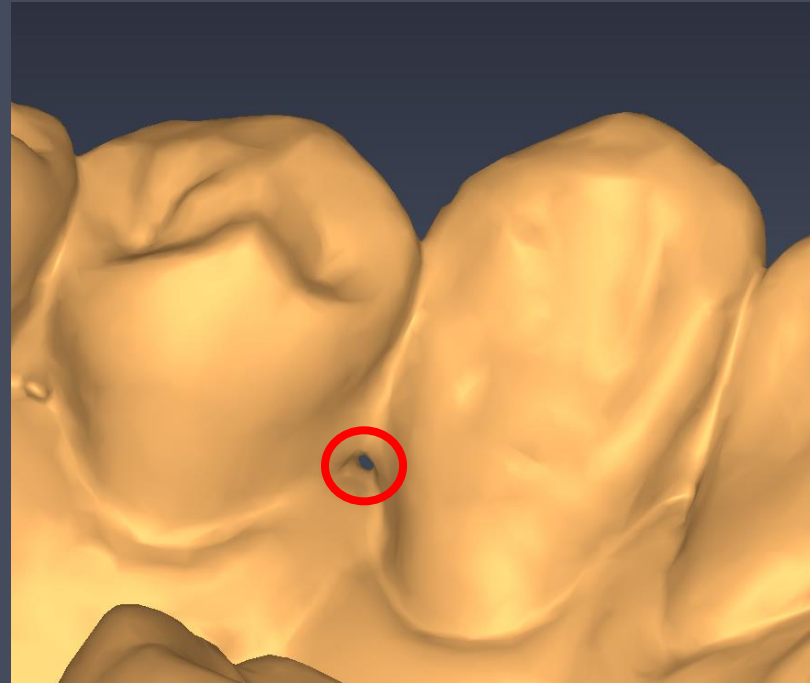
When will it happen?

- An example image of a donut-shaped hole in the scan data

<The view from the facial side>
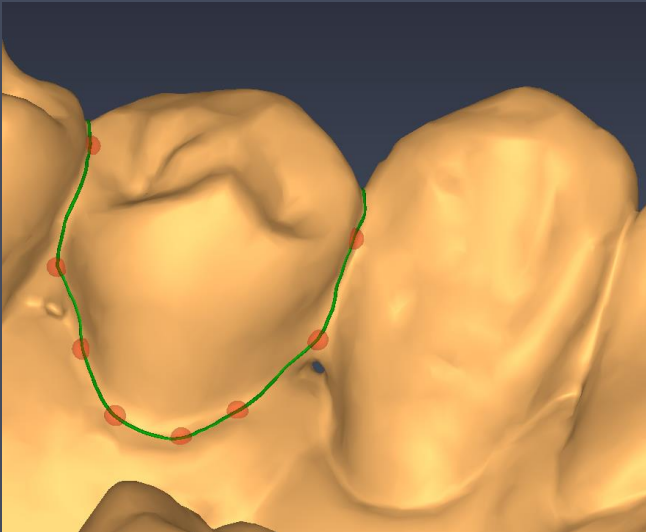

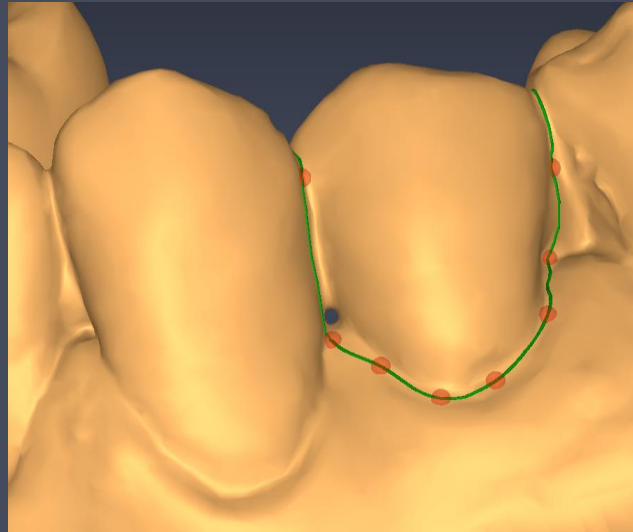<The view from the lingual side>

When will it happen?

- In the tooth removal stage, if the geodetic line is set to pass through the perforated area as below, the work will fail because the inner and outer surfaces cannot be distinguished.
- This applies not only the tooth removal stage but also surgical guide design stage.

\<Incorrect geodetic line setting\>

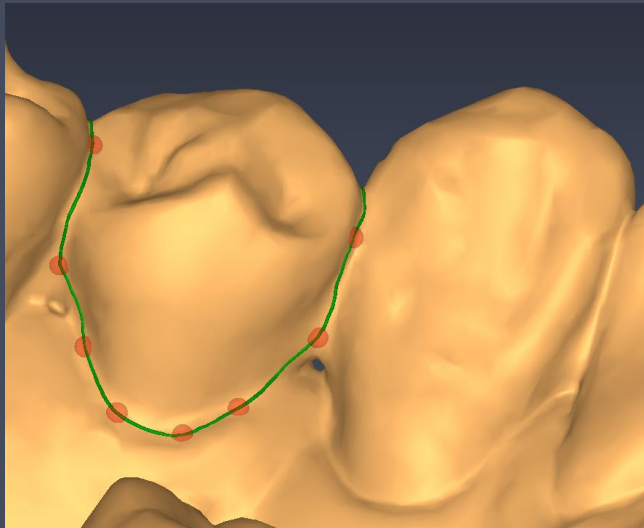On one side, avoid the hole and set the geodetic line.

On one side, a geodetic line is set, including a hole.

When will it happen?

- If there is a donut-shaped hole, the work proceeds correctly by avoiding the hole and setting the geodetic line or setting the geodetic line including the hole as a whole.

- This applies not only the tooth removal stage but also surgical guide design stage.

<Correct geodetic line setting>

On one side, avoid the hole and set the geodetic line.
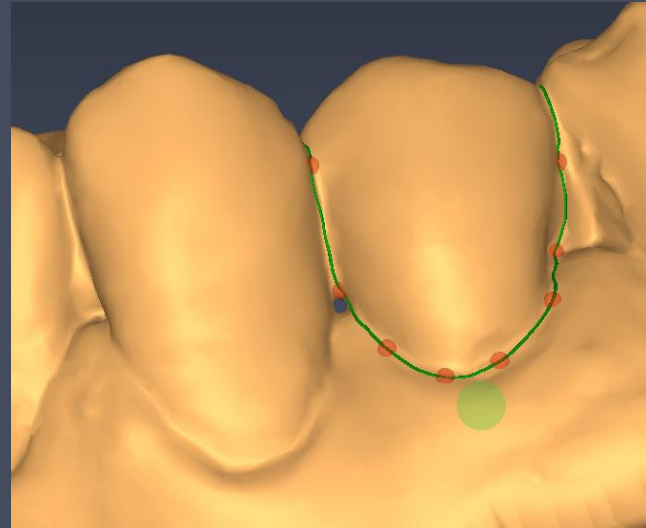
On one side, avoid the hole and set the geodetic line.

Thank you

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