

Implant Scanning Step-by-Step



Implant Scanning with TRIOS

Scanning an Implant Case can be done in multiple ways:

- [1. Implant Case incl Emergence Profile scan \(Slide 9 to 20\)](#)
- [2. Standard Implant Case without Emergence Profile \(Slide 21 to 26\)](#)
- [3. Implant Case incl Pre-Preparation scan \(Slide 27 to 32\)](#)
- [4. Implant Case incl Pre-Preparation and Emergence Profile scans \(Slide 33 to 39\)](#)

For all four scenarios, selecting the right items on the order page is key. The first slides from 3 to 8 will help you to select everything for the right order.

Please read the document “Implants with TRIOS® - Clinic perspective” before scanning your first implant case.

Link: Support site - Extra

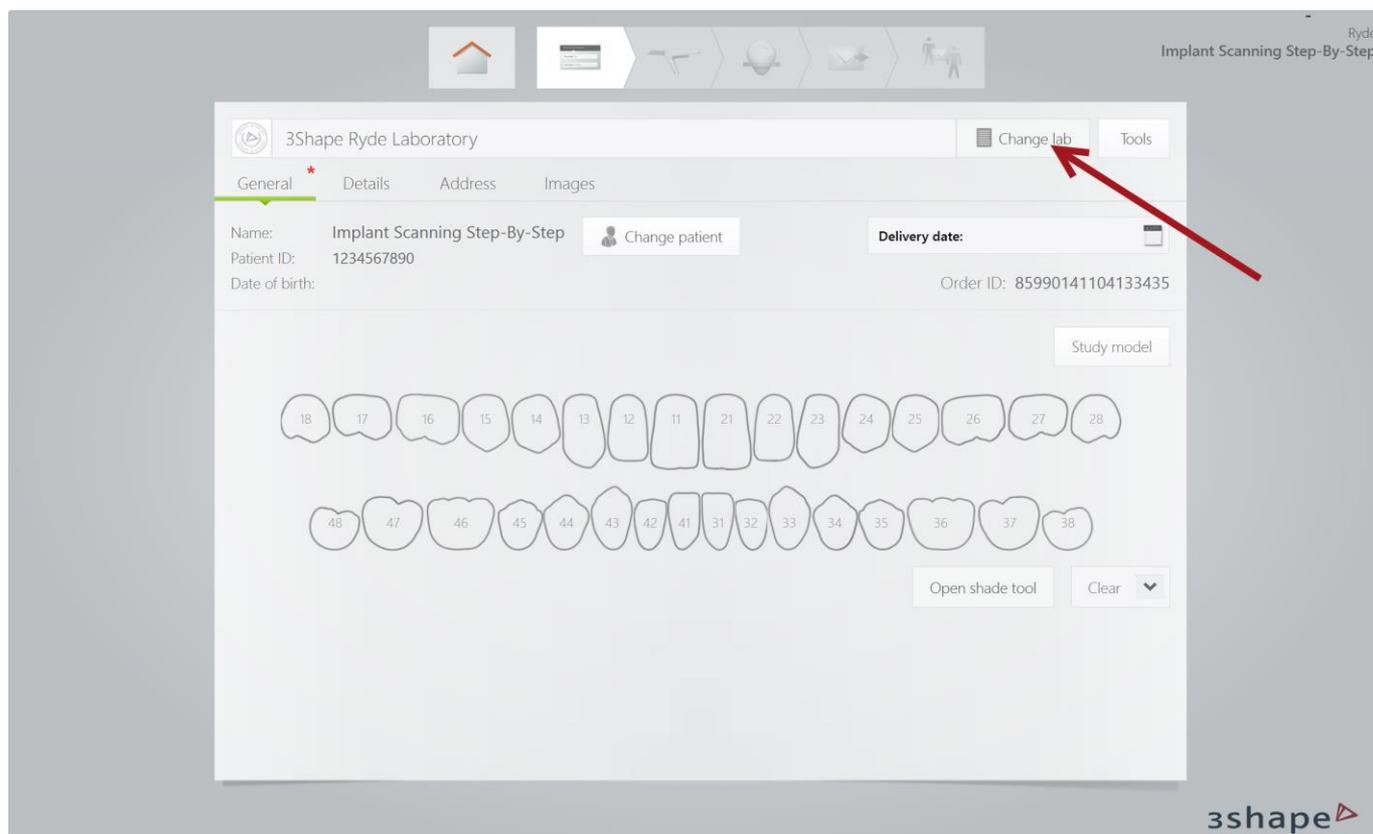
The Scenarios in this guide are created on Dental Demo Model manufactured by Frasaco.

Create a patient with a new session

The screenshot displays the 3shape software interface. On the left is a vertical sidebar with icons for Patients, Calendar, Cases, Messages, Configure, Help, and Close. The main area shows a 'Patients' section with a search bar and buttons for 'New session', 'Add patient', 'Edit patient', and 'Delete sessions'. A red arrow labeled '3' points to the 'New session' button. Below the search bar, a patient entry for 'Step-By-Step, Implant Scanning' with ID '1234567890' is shown, with a message 'There are no sessions for current patient'. A red arrow labeled '1' points to the 'Add patient' button. An 'Add patient' dialog box is open in the foreground, containing fields for Patient ID (1234567890), First name (Implant Scanning), Last name (Step-By-Step), and Date of birth (Ex. 02-02-1983). A red box labeled '2' surrounds the dialog box. At the bottom right of the interface is the 3shape logo.

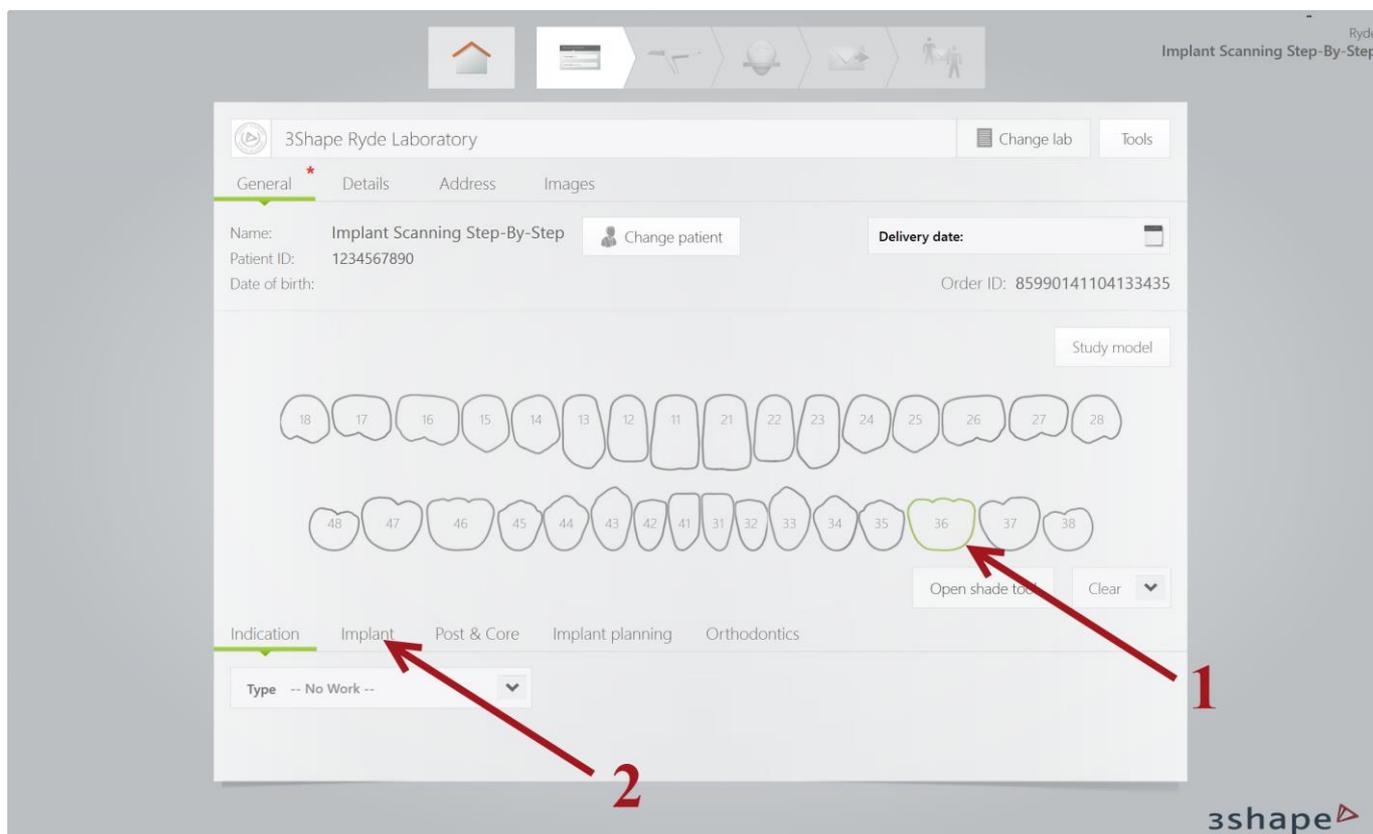
1. Click "Add patient"
2. Fill out patient info
3. Select "New session" to create a new case

Choose Lab



1. Click "Change lab" to choose a lab from your list of laboratories

Select tooth and Implant



1. Select tooth for the restoration
2. Click on "Implant"

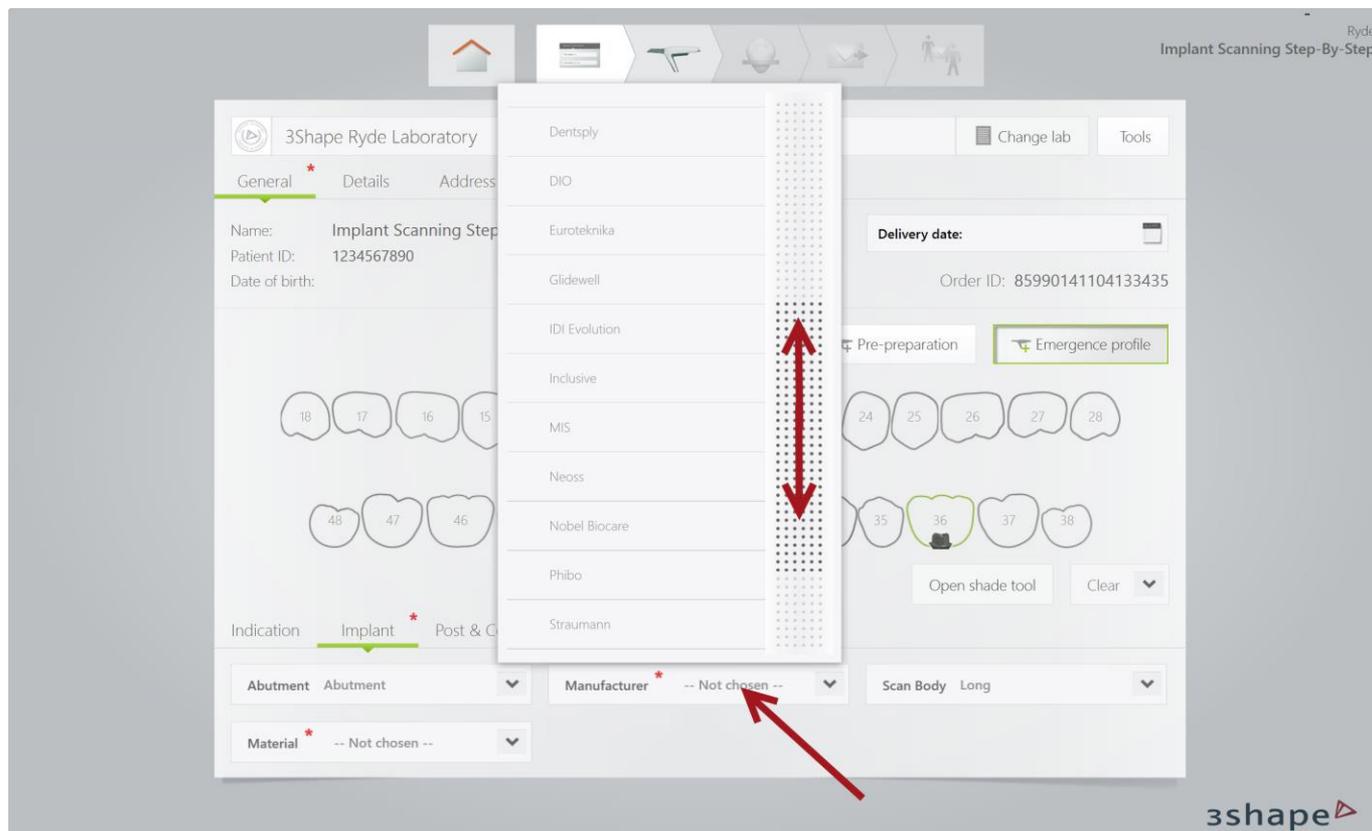
Select restoration

The screenshot shows the 3Shape software interface for 'Implant Scanning Step-By-Step'. The 'Study model' tab is active, displaying a dental arch with teeth numbered 18 to 28 and 44 to 38. A dropdown menu is open over tooth 36, showing options: '-- Not chosen --', 'Abutment', and 'Screwretained Crown'. Two red arrows point to the 'Abutment' and 'Screwretained Crown' options. A red box highlights the following definitions:

Abutment: Two-piece Cement retained crown on top of an individual abutment
Screwretained Crown: Single piece screw retained restoration type where Crown and Abutment are in one piece.

1. Click on "Abutment"
2. Select the wanted restoration type (Abutment or Screwretained Crown - see description above)

Select manufacturer



1. Select your "Manufacturer" of choice
2. Use scroll to see options

Select implant details

The screenshot shows the 3Shape software interface for implant scanning. The 'Implant' tab is selected, and the 'System' dropdown is set to 'NobelActive', 'Connection' to 'RP D4,3', and 'Material' to 'Zirkonium'. Red arrows labeled 1, 2, and 3 point to these dropdown menus respectively.

3Shape Ryde Laboratory

Change lab Tools

General * Details Address Images

Name: Implant Scanning Step-By-Step Change patient Delivery date:

Patient ID: 1234567890 Order ID: 85990141104133435

Date of birth:

Enable extra scans: Pre-preparation Emergence profile

18 17 16 15 14 13 12 11 21 22 23 24 25 26 27 28

48 47 46 45 44 43 42 41 31 32 33 34 35 36 37 38

Open shade tool Clear

Indication Implant * Post & Core Implant planning Orthodontics

Abutment Abutment Manufacturer * Nobel Biocare System * NobelActive

2 → Connection * RP D4,3 Scan Body Long Material * Zirkonium

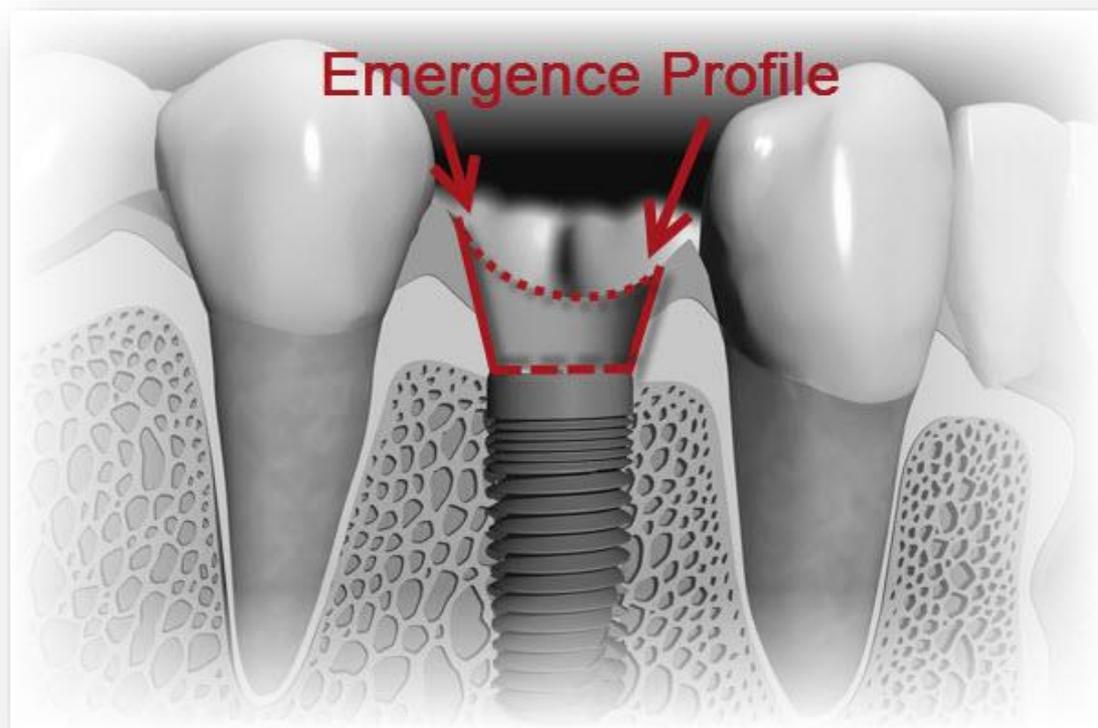
3Shape

1. Select the "System"
2. Select the "Connection"
3. Select "Material"

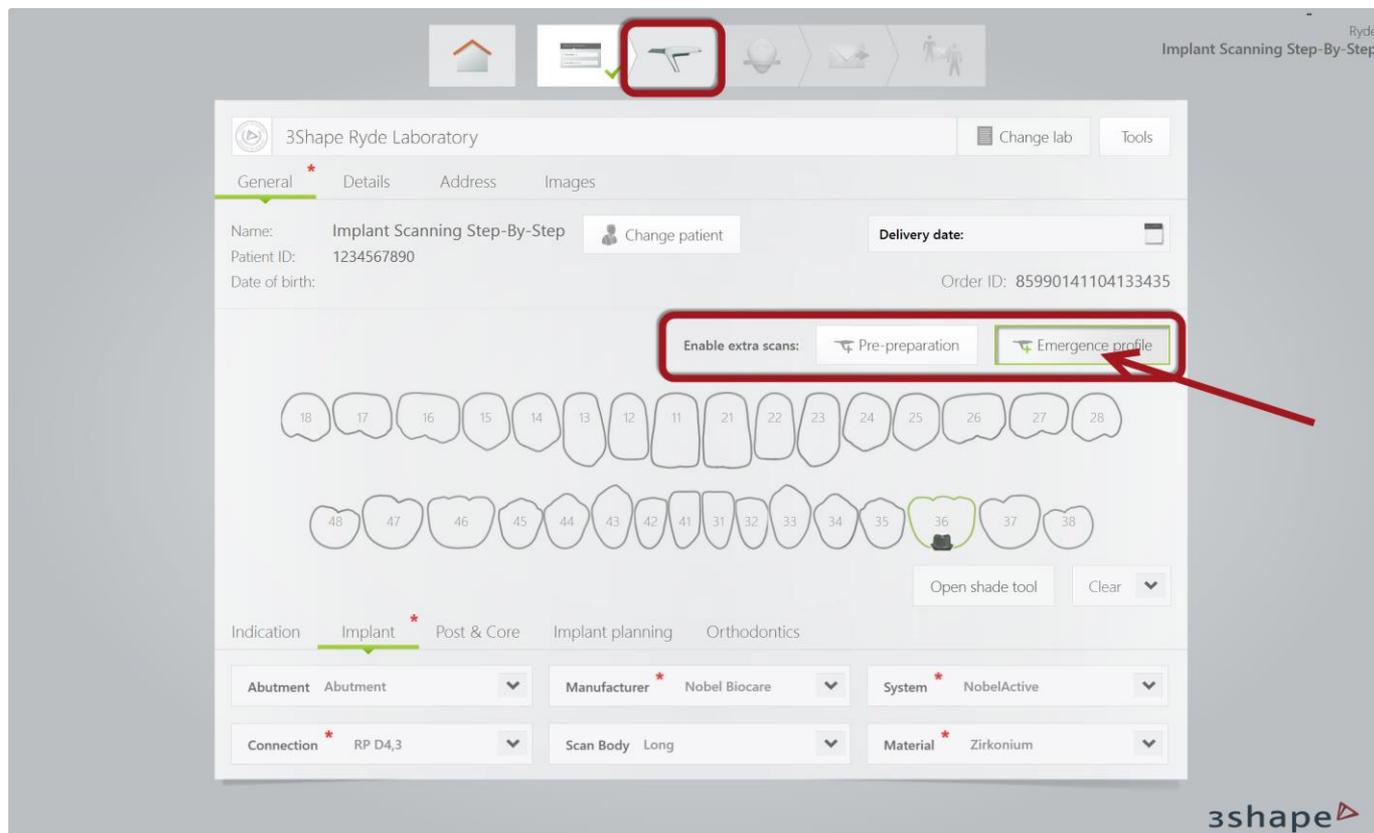
Scenario 1:

Implant Case incl Emergence Profile scan

When using the surrounding soft tissue (gingiva) for optimized fit and esthetic qualities of the customized abutment and final restoration^[1]

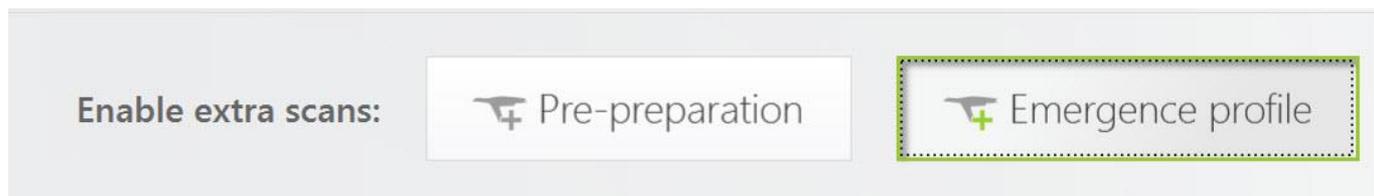


Enable emergence profile scan

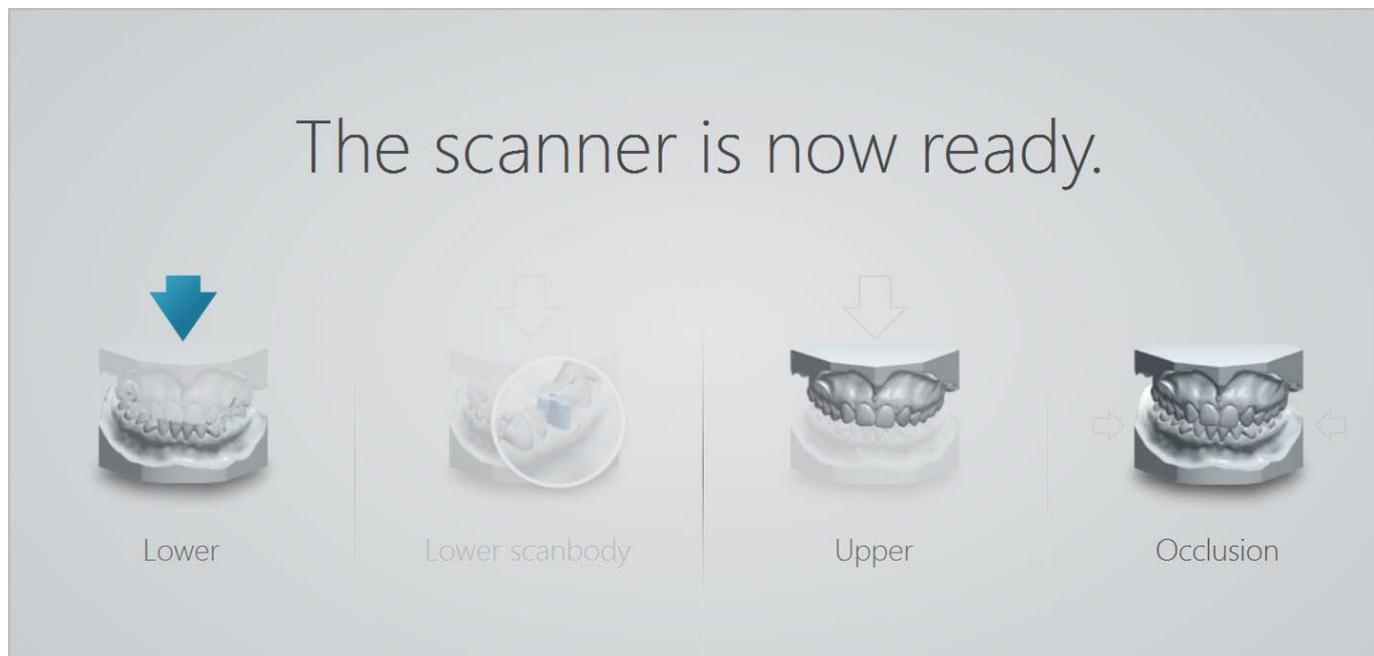


1. Click the "Emergence Profile" button
2. Go to "Scan Page"

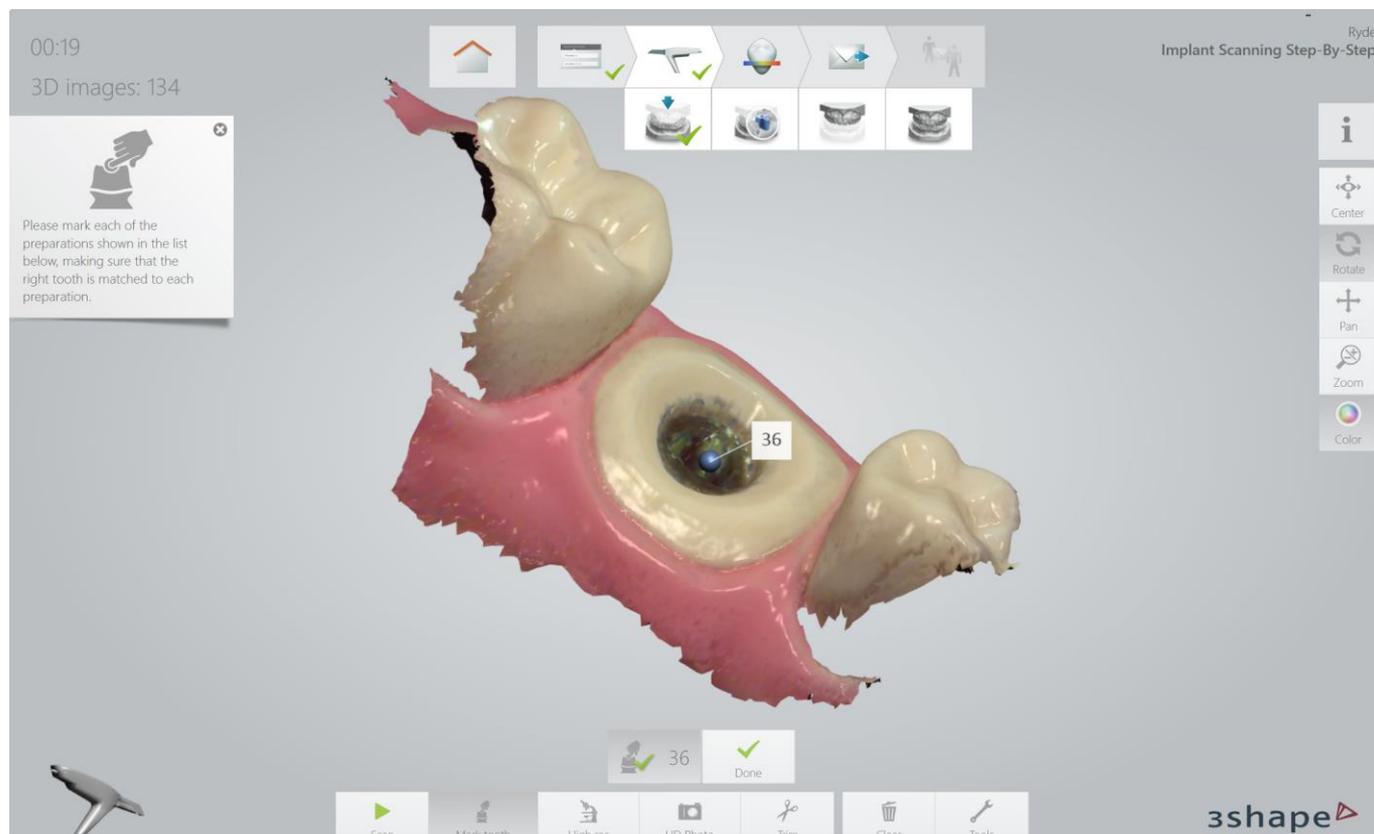
Emergence profile scan enabled



This selection will activate an extra scan-field:

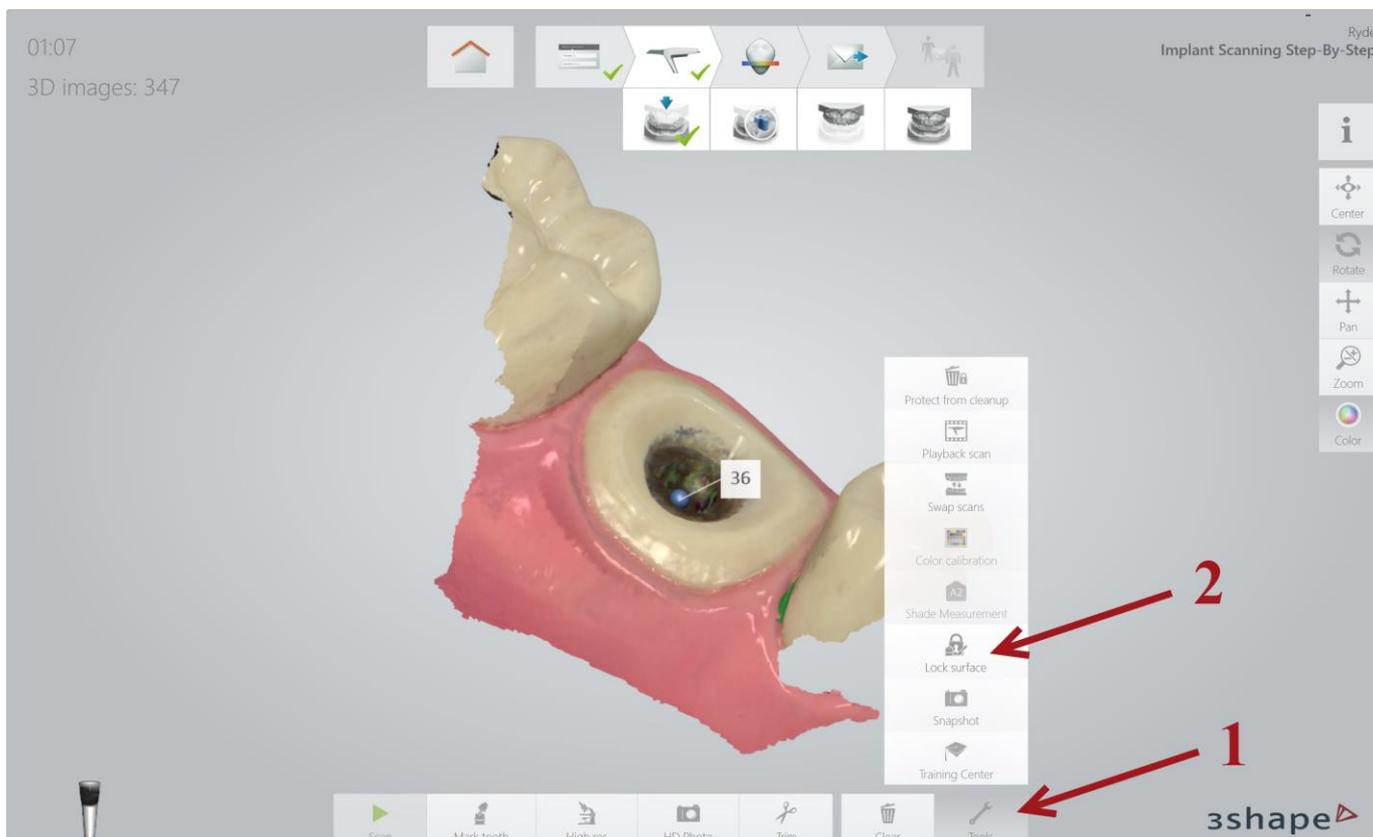


Scan emergence profile



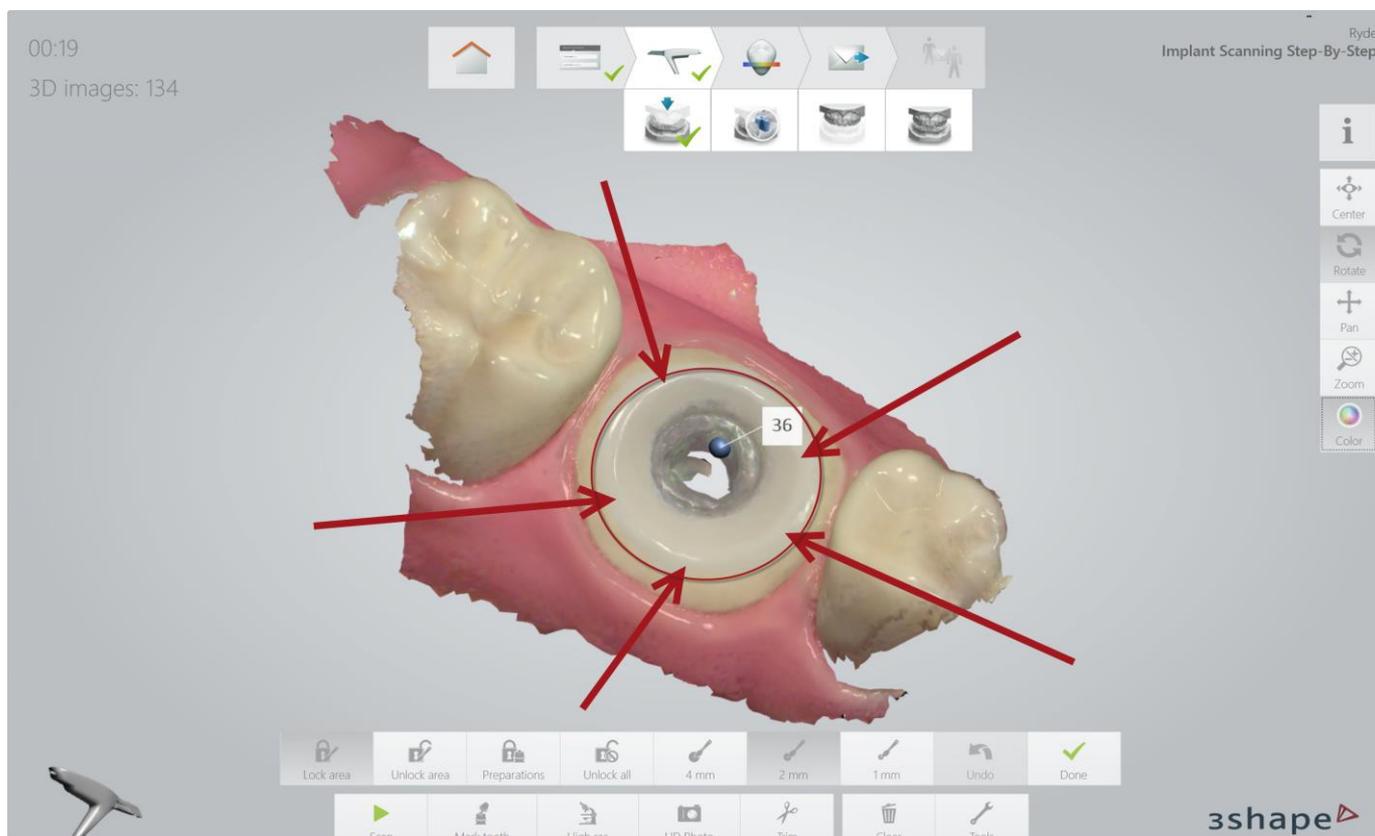
1. Scan emergence profile immediately after removal of healing cap/abutment
2. Stop scanning as soon as the emergence profile is covered
3. Mark the tooth as close to the screw hole as possible!

Lock surface - optional



1. Open "Tools"
2. Select "Lock Surface"

Benefits of locked surface



By locking the Emergence Profile, additional scanning after collapse of Emergence Profile will not impact the final 3D structure

Validate the emergence profile scan - optional



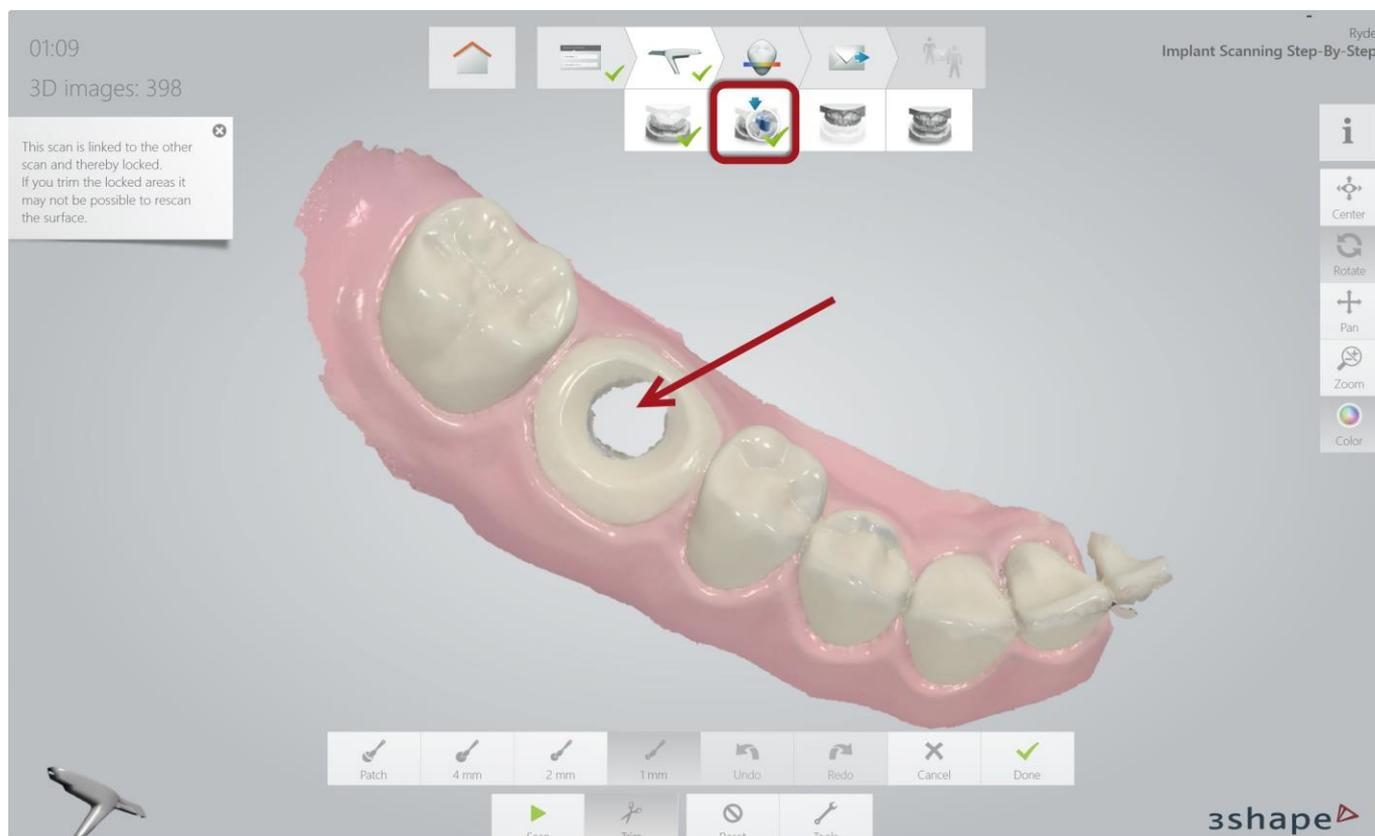
1. Turn the "Color" button on and off to validate the scan

Complete scanning



1. Scan the rest of the relevant jaw
2. Remember to scan all important areas (e.g. contact points) thoroughly, as this scan will serve as the master scan

Go to scanbody page



1. A copy of the Master Scan appears
2. The spot where the tooth was marked has been cut-out automatically in order to make space for the scanbody
3. You can remove a little more by using the "Trim Tool"

Scanbodies

- Scanbodies have many different designs
- Please position the scanbody with the flat side easily visible
- Scan the top of the scanbody thoroughly - see marked areas below
- An incomplete scan of the scanbody, may result in a bad restoration!



Insert scanbody



Insert the Scanbody and scan it according to the instructions on [slide 18](#)

Finalize scans

1. Scan "Antagonist"
2. Scan "Bite" for occlusion



End of Scan Scenario 1

Scenario 2:

Standard Implant Case without Emergence profile

When Emergence profile is not required for esthetics and design



Disable extra scans

Ryde
Implant Scanning Step-By-Step

3Shape Ryde Laboratory

Change lab Tools

General * Details Address Images

Name: Implant Scanning Step-By-Step Change patient Delivery date:

Patient ID: 1234567890 Order ID: 85990141104133435

Date of birth:

Enable extra scans: Pre-preparation Emergence profile

18 17 16 15 14 13 12 11 21 22 23 24 25 26 27 28

48 47 46 45 44 43 42 41 31 32 33 34 35 36 37 38

Open shade tool Clear

Indication Implant * Post & Core Implant planning Orthodontics

Abutment Abutment Manufacturer * Nobel Biocare System * NobelActive

Connection * RP D4,3 Scan Body Long Material * Zirkonium

3shape

1. Leave both boxes unmarked
2. Go to "Scan Page"

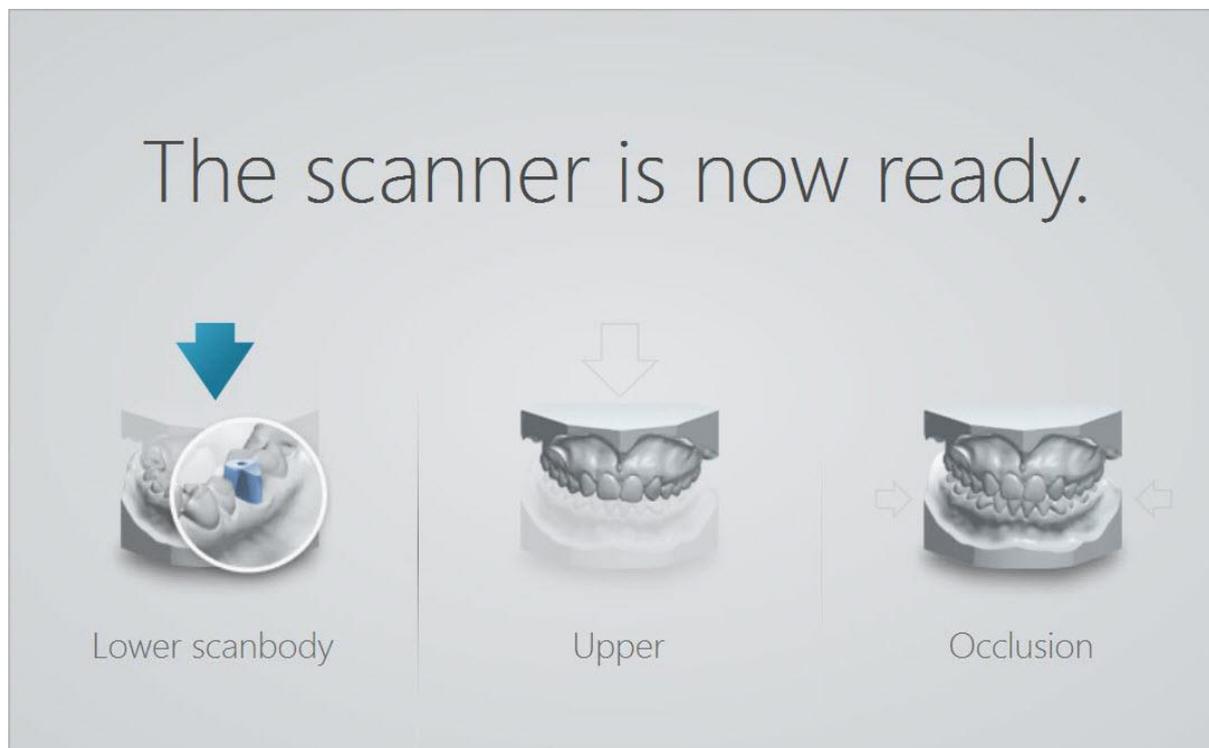
Extra scans disabled

Enable extra scans:

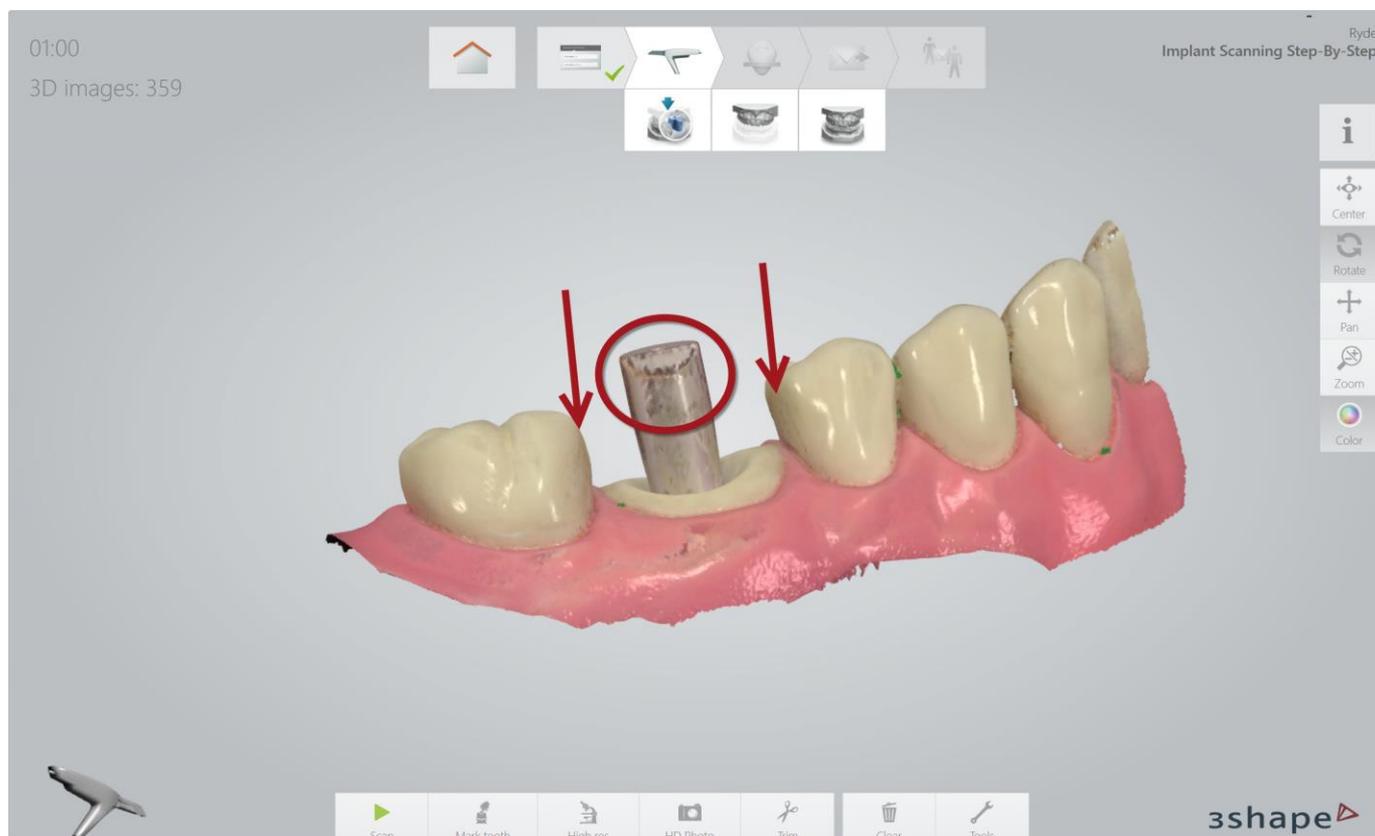
 Pre-preparation

 Emergence profile

Go directly to the scanbody page

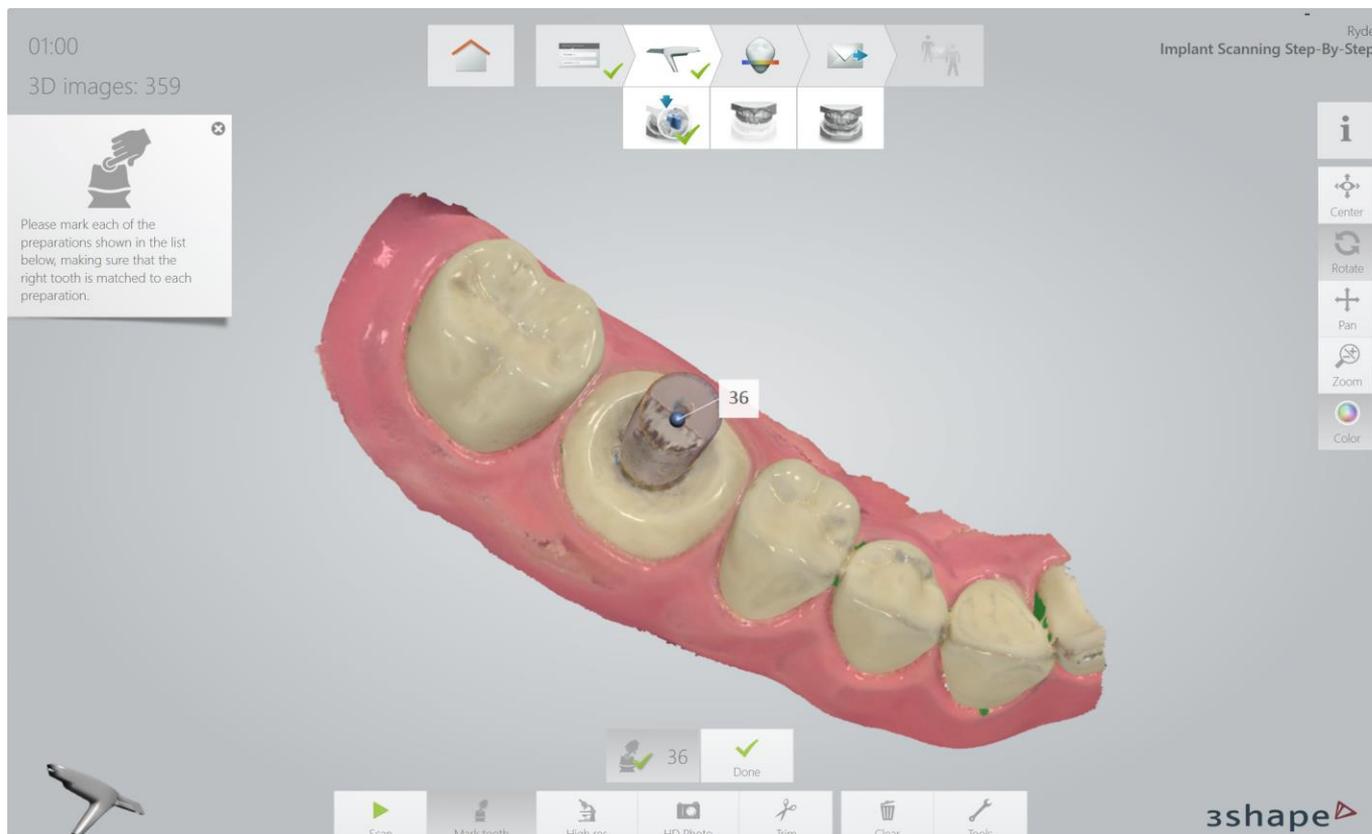


Insert scanbody



Insert the Scanbody and scan it according to the instructions on [slide 18](#)

Mark the tooth



1. Mark the tooth by selecting the center on the top of the scanbody

Finalize scans

1. Scan "Antagonist"
2. Scan "Bite" for occlusion



End of Scan Scenario 2

Scenario 3:

Implant Case incl Pre-Preparation Scan

When the morphology of the damaged tooth (prior to extraction), or the temporary can be used for designing the final restoration

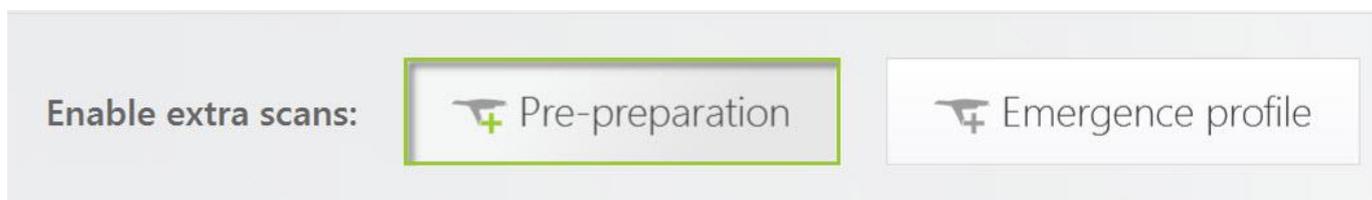


Enable Pre-preparation scan

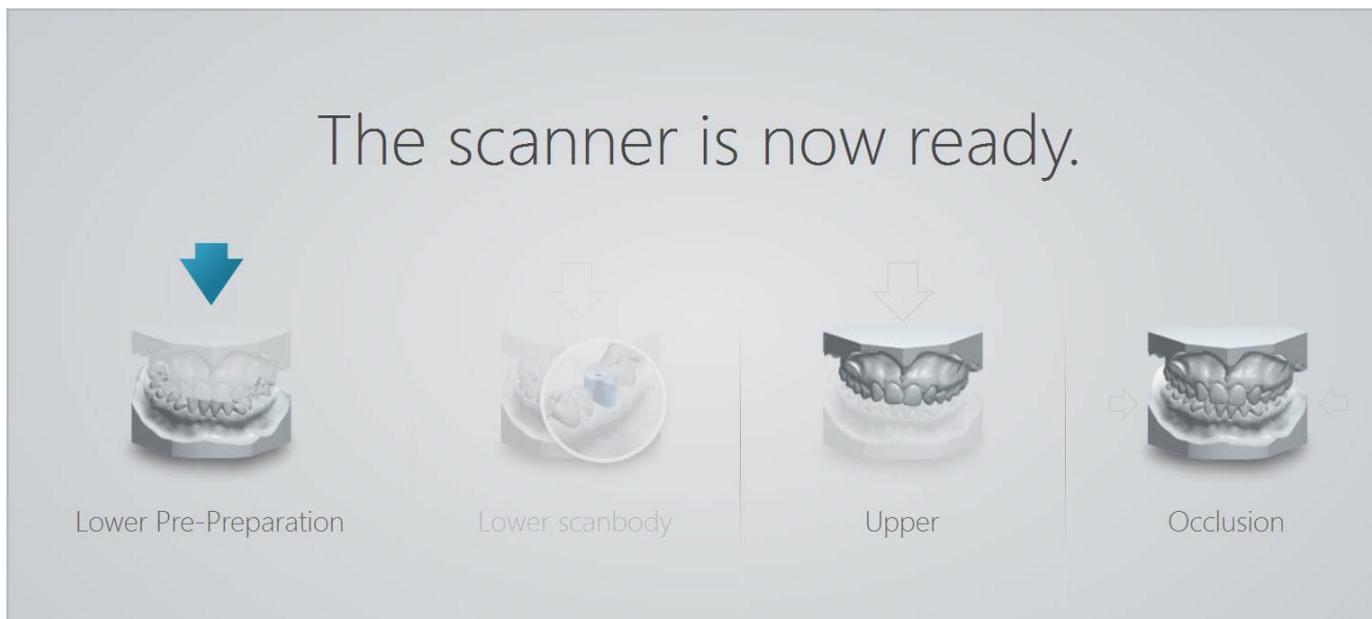
The screenshot displays the 3Shape software interface for 'Implant Scanning Step-By-Step'. The top navigation bar includes icons for Home, a document with a checkmark, a scanner (highlighted with a red box), a lightbulb, an envelope, and a group of people. The main content area shows patient details for 'Implant Scanning Step-By-Step' with Patient ID 1234567890 and Order ID 85990141104133435. Under the 'Enable extra scans' section, the 'Pre-preparation' button is highlighted with a red box and a red arrow. Below this is a dental arch diagram with teeth numbered 18-28 and 48-38. The bottom section shows implant specifications: Abutment (Abutment), Manufacturer (Nobel Biocare), System (NobelActive), Connection (RP D4,3), Scan Body (Long), and Material (Zirkonium). The 3shape logo is in the bottom right corner.

1. Click the "Pre-preparation" button
2. Go to "Scan Page"

Pre-preparation scan enabled



This selection will activate an extra scan-field:



Scan Pre-preparation



1. Scan the jaw with the Pre-prepared tooth thoroughly as this is the master
2. Mark the center of the tooth from occlusal view

Go to scanbody page



1. A copy of the Master Scan appears
2. The spot where the tooth was marked has been cut-out automatically in order to make space for the scanbody
3. You can remove a little more by using the "Trim Tool"

Insert scanbody



1. Insert the Scanbody and scan it according to the instructions on [slide 18](#)
2. Mark the tooth by selecting the center on the top of the scanbody

Finalize scans

1. Scan "Antagonist"
2. Scan "Bite" for occlusion

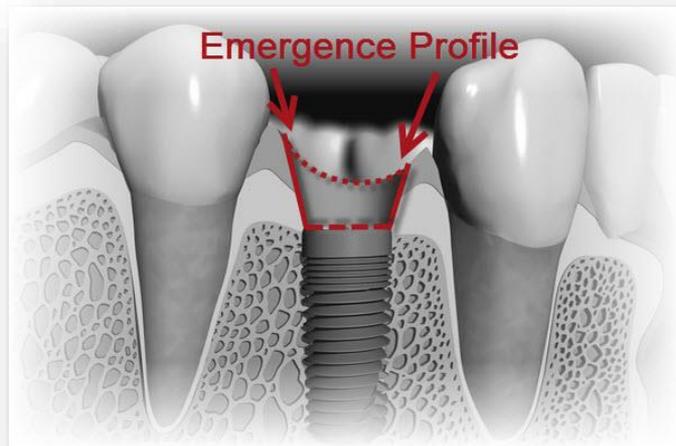


End of Scan Scenario 3

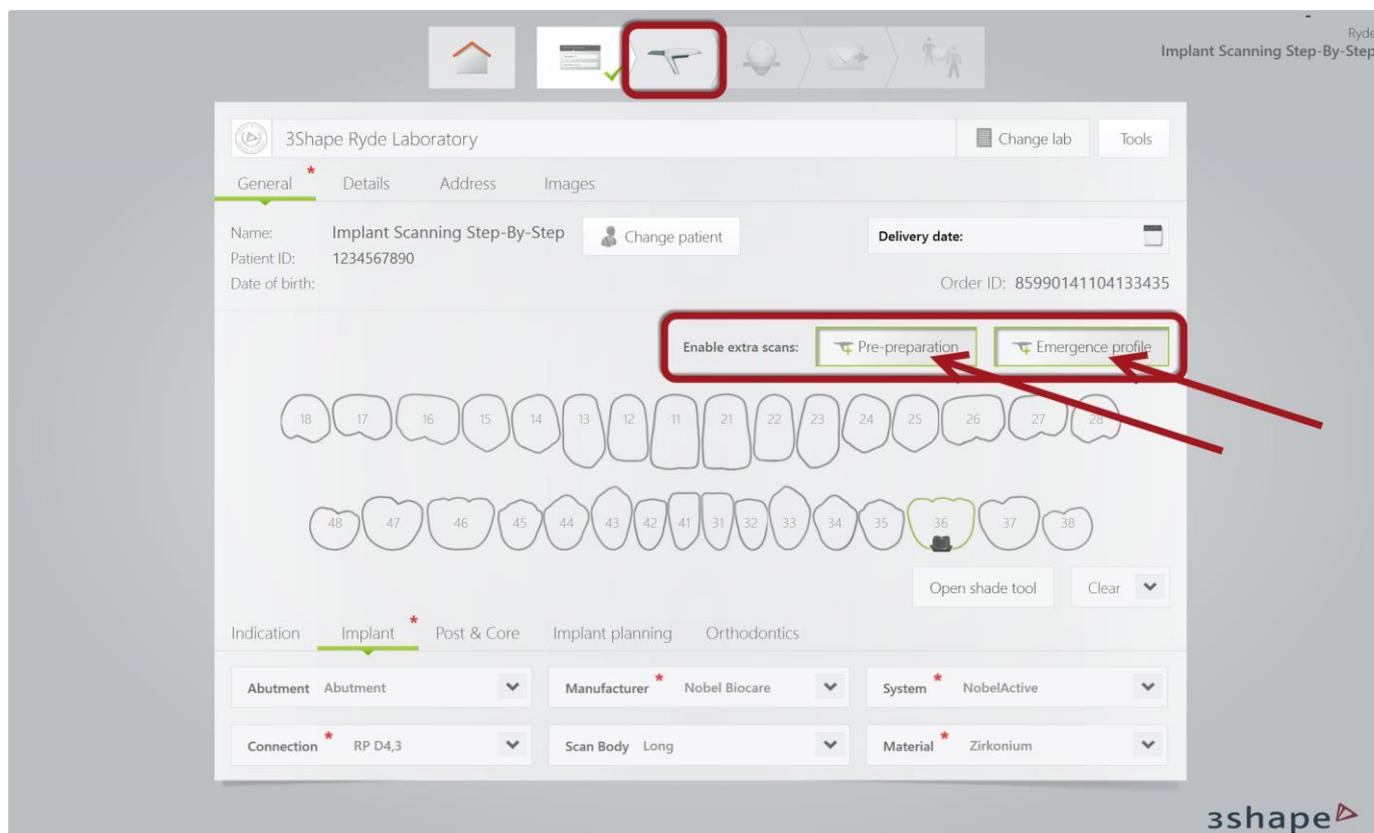
Scenario 4:

Implant Case incl Pre-Preparation and Emergence Profile Scans

When using the surrounding soft tissue (gingiva) for optimized fit and esthetic qualities of the customized abutment and final restoration **AND** the morphology of the damaged tooth (prior to extraction), or the temporary can be used for designing the final restoration



Enable Pre-preparation + Emergence profile scans



1. Click the "Pre-preparation" and the "Emergence profile" buttons
2. Go to "Scan Page"

Pre-preparation and Emergence Profile scans enabled

Enable extra scans:

 Pre-preparation

 Emergence profile

This selection will activate two extra scan-fields:

The scanner is now ready.



Lower Pre-Preparation



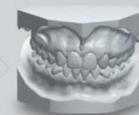
Lower



Lower scanbody



Upper



Occlusion

Scan Pre-preparation



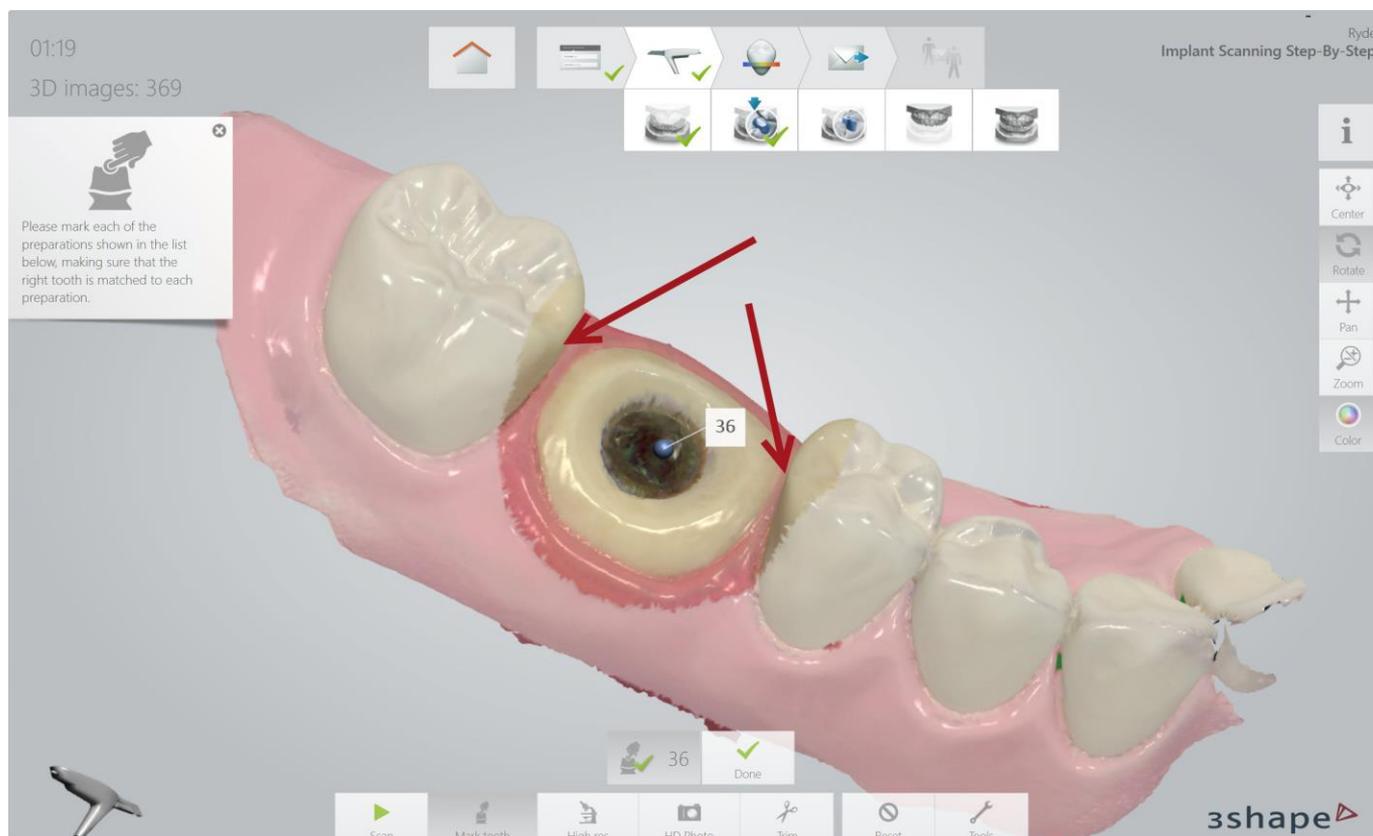
1. Scan the jaw with the Pre-prepared tooth thoroughly as this is the master
2. Mark the center of the tooth from occlusal view

Go to Lower scan page



1. A copy of the Master Scan appears
2. The spot where the tooth was marked has been cut-out automatically in order to make space for the Emergence profile
3. You can remove a little more by using the "Trim Tool"

Scan emergence profile



1. Scan emergence profile immediately after removal of healing cap/abutment
2. Stop scanning as soon as the emergence profile is covered
3. Mark the tooth as close to the screw hole as possible!

Go to lower scanbody page



1. A copy of the Master Scan incl Emergence profile appears
2. The spot where the tooth was marked has been cut-out automatically in order to make space for the scanbody
3. You can remove a little more by using the "Trim Tool"

Insert scanbody



1. Insert the Scanbody and scan it according to the instructions on [slide 18](#)
2. Mark the tooth by selecting the center on the top of the scanbody

Finalize scans

1. Scan "Antagonist"
2. Scan "Bite" for occlusion



End of Scan Scenario 4

Technology designed the way you work