PHOTOGRAMMETRY (EXTRAORAL) CLINICAL WORKFLOW

SURGICAL

MICRONMAPPER

↓ ↓

BruxZir®
esthetic
FULL-ARCH IMPLANT PROSTHESIS

Digital Workflow for Full-Arch Prosthesis

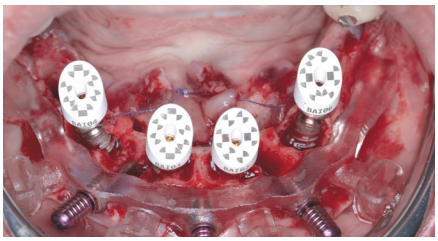
Glidewell

SCANS NEEDED AT EACH WORKFLOW STAGE

Scans are needed throughout the restorative process.

STAGE 0: PRESURGICAL

- CBCT
  - Dual scan (Fully or partially edentulous cases)
- Intraoral scan (upper/lower)
- Intraoral scan (bite: desired VDO)
- Facial photos or scans



STAGE 1: SURGICAL

Prior to Teeth Extraction

- Intraoral scan of working arch with fiducial marker in place (e.g. ARCHTRACER™/teeth/etc.)
- Intraoral scan (opposing arch)
- Intraoral scan (bite: desired VDO)

After Implant Placement

- Photogrammetry scan of MicronMapper implant (MUA) flags
- Tissue scan with fiducial marker (e.g. ARCHTRACER) and tissue-level MUA healing caps (Inclusive® healing caps recommended)

STAGE 2: RESTORATIVE

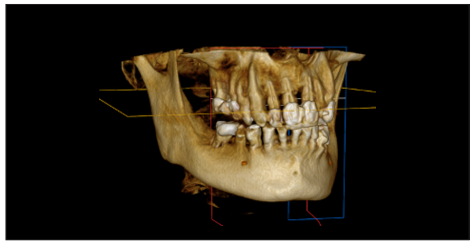
- Facial photos or scans
- Intraoral scan (seated prosthesis)
- Intraoral scan (opposing arch)
- Intraoral scan (bite: desired VDO)
- Tissue scan (Inclusive MUA healing caps recommended)
- Photogrammetry scan of MicronMapper implant (MUA) flags
- Extraoral 360° scan of prosthesis with reverse scan bodies (Inclusive EOScan Bodies recommended)

STAGE 0: PRESURGICAL PHASE

The following records are essential for treatment planning full-arch restorations. These records enable the initial design of a prosthesis to align with day-of-surgical scans to fabricate an immediate prosthesis.

Presurgical Records Needed

- CBCT scans (Dual Scan for fully or partially edentulous cases)
- Intraoral scan (upper/lower)
- Intraoral scan (bite: desired VDO)
- Facial photos or scans



Begin case in *My Account*. Indicate day of surgery, type of prosthesis (FP1, FP2, FP3), and upload scans. Glidewell will prepare initial design to be finalized on day of surgery.

STAGE 1: SURGICAL PHASE

THE OUTCOME OF THIS PHASE IS A TEMPORARY PROSTHESIS.

STAGE 1 SCANS NEEDED

The following scans should be acquired on the day of surgery *after* fiducial marker is placed.

Prior to Extraction

- Intraoral scan of working arch with fiducial marker in place (e.g. ARCHTRACER/ teeth/etc.)
- Intraoral scan (opposing arch)
- Intraoral scan (bite: desired VDO)

After Implant Placement

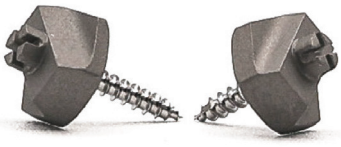
- Photogrammetry scan of MicronMapper implant (MUA) flags
- Tissue scan with fiducial marker (e.g. ARCHTRACER) and Inclusive MUA healing caps

SURGICAL WORKFLOW

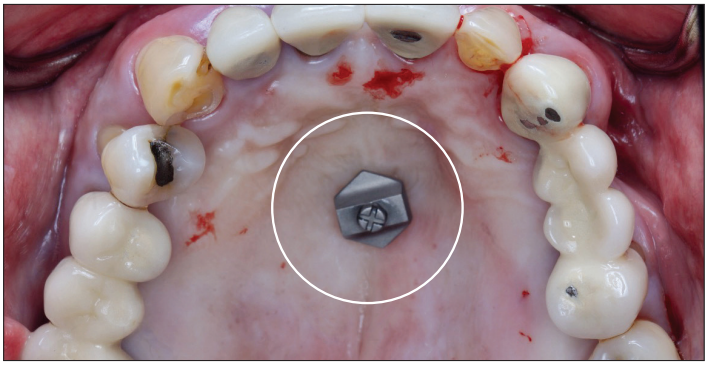
1 Determine Fiducial Markers and Scan

Place fiducial marker (e.g. ARCHTRACER). Take a full-arch scan with intraoral scanner capturing soft tissue and fiducial marker(s), opposing, and bite scan.

DENTATE CASES:
Keep teeth as additional markers if teeth are included in presurgical records.



Keep fiducial markers in place throughout surgery until all scans are completed.

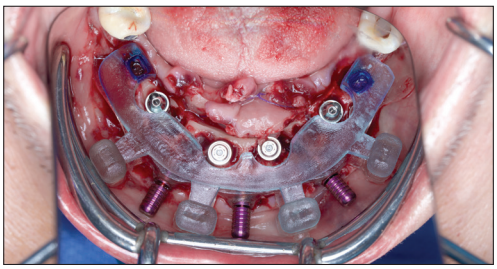


2 Scan Opposing and Bite

With fiducial marker in place, scan opposing arch and bite.

3 Implant Surgery

Using preferred surgical method, extract desired teeth and place implants. Secure MUAs to each implant.

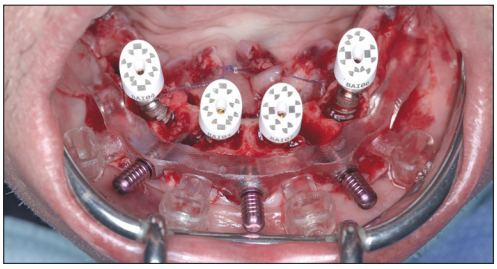


4 Secure MicronMapper Scan Bodies

Place the provided screws in the MicronMapper scan bodies.

With fiducial marker still in place, secure a MicronMapper scan body on each MUA.

Orient the MicronMapper scan bodies so the coded surface is visible from the facial view; hand tighten to secure in place.

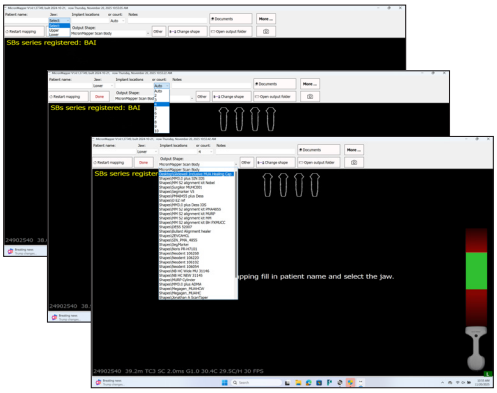


5 Initial Implant (MUA) Scan

Set up the extraoral MicronMapper camera and software Rx.

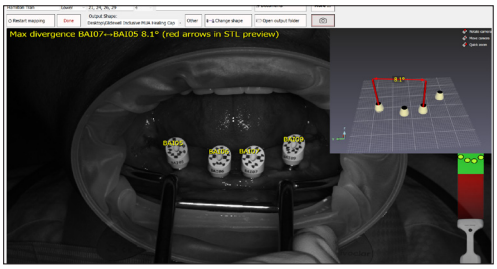
In the MicronMapper software enter the patient details including:

- Patient name
- Jaw type *(upper or lower)*
- Sites to be scanned
- Change scan body output
  (to match the tissue-level MUA healing caps)
- Any additional notes



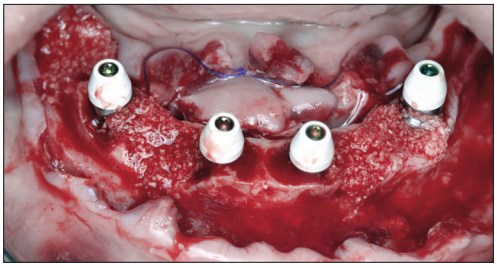
Position the camera correctly to capture the scan bodies.

Click “restart mapping” to begin the scanning process; each on-screen scan body will turn green when capture is complete.



6 Remove MicronMapper Scan Bodies

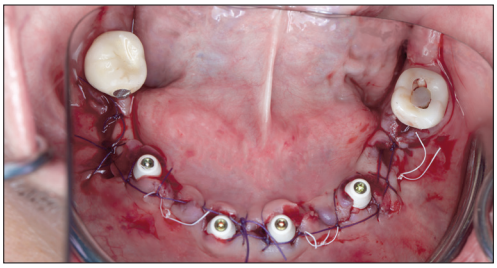
Once implant (MUA level) scan is complete, remove MicronMapper scan bodies and seat tissue-level MUA healing caps (Inclusive MUA healing caps recommended).

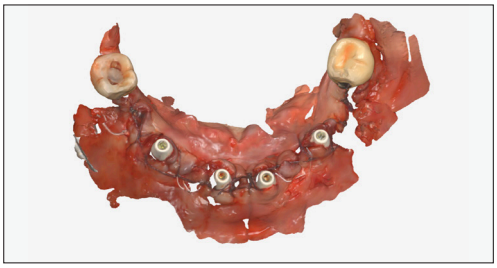


7 Tissue Scan

If applicable, remove foundation/bone reduction guide (keep fiducial marker, e.g. ARCHTRACER, in place).

Suture soft tissue around MUA healing caps. Take a full-arch scan with intraoral scanner, capturing soft tissue, MUA healing caps and fiducial marker(s).





8 Send Scans to Glidewell to Fabricate Immediate Provisional

Receive confirmation from Glidewell Lab team that all scans are received and are of sufficient quality for alignment and temporary design finalization.

Once Glidewell confirms scans are received, the fiducial markers can be removed.

Glidewell finalizes the design by merging the surgical day scans with the presurgical planning design to finalize the temporary prosthesis with two options:

Same-Day Delivery: Receive STL file for in-office printing or milling.

Next-Day Delivery: Glidewell overnights temporary (print or mill) for next-day delivery.

STAGE 2: RESTORATIVE PHASE

THE OUTCOME OF THIS PHASE IS A FIXED TRY-IN PROSTHESIS.

STAGE 2 SCANS NEEDED

The following scans should be acquired in the Restorative Phase. Updated scans are required, even if scans were acquired in Surgical Phase.

- Facial photos or scans
- Intraoral scan (seated prosthesis with surrounding tissue)
- Intraoral scan (opposing arch)
- Intraoral scan (bite: desired VDO)
- Tissue scan (Inclusive MUA healing caps recommended)
- Photogrammetry scan of MicronMapper implant (MUA) flags
- Extraoral 360° scan of prosthesis with reverse scan bodies (EOScan Bodies recommended)

RESTORATIVE WORKFLOW

NOTE: *Ensure all MUAs are torqued to manufacturer's recommendations prior to beginning workflow.*

1 Scan Provisional Intraorally

Scan seated provisional, ensuring to capture surrounding tissue.

2 Scan Opposing and Bite

Adjust bite if needed.

3 Secure MicronMapper Scan Bodies

Remove existing prosthesis and secure a MicronMapper scan body on each MUA.

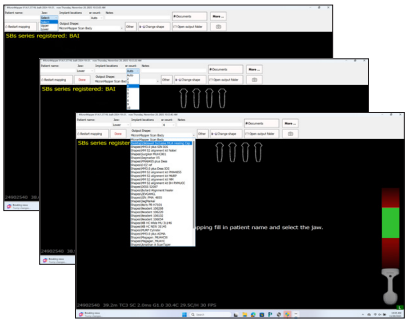
Orient the MicronMapper scan bodies so the coded surface is visible from the facial view; hand tighten to secure in place.

4 Implant (MUA) Scan

Set up the extraoral MicronMapper camera and software Rx.

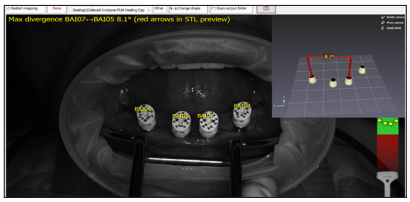
In the MicronMapper software enter the patient details including:

- Patient name
- Jaw type *(upper or lower)*
- Sites to be scanned
- Change scan body output (to match the tissue-level MUA healing caps)
- Any additional notes



Position the camera correctly to capture the scan bodies.

Click **Restart Mapping** to begin the scanning process; each on-screen scan body will turn green when capture is complete.



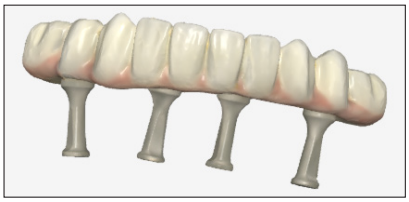
5 **Remove MicronMapper Scan Bodies**

Once implant (MUA level) scan is complete, remove MicronMapper scan bodies and seat tissue-level MUA healing caps (Inclusive MUA healing caps recommended).

6 **Tissue Scan**

Take a full-arch scan with intraoral scanner capturing soft tissue.

7 **Extraoral 360° Scan of Temporary Prothesis**



Utilizing the MUA prosthetic screws, attach reverse scan bodies. Inclusive MUA EOScan Bodies are recommended.

Capture the 360° scan of the current prosthesis.

8 **Send Files to Lab**

Reseat provisional and send files to Glidewell through *My Account*.

FINAL STAGE

1 **The Definitive Prosthesis**

When a try-in is approved, complete the case in your *My Account* portal and confirm the final material.

BruxZir® esthetic
FULL-ARCH IMPLANT PROSTHESIS

Lifetime Warranty and No-Fault Remake
GUARANTEED!

Glidewell
for the sake of smiles