



■ CLINIC GUIDE

Digital socket design *for prosthetic clinics*

ReMould is desktop software for designing and preparing prosthetic sockets, taking a 3D scan of the residual limb through a guided workflow to files ready for fabrication.

This guide sets out the ReMould workflow, how it supports prosthetists, clinic owners, and fabrication technicians, and the design, fabrication, and clinic tools that sit around it.

■ REMOULD FOR PROSTHETICS CLINICS

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01

From scan to *socket*

ReMould follows one path from a 3D scan of the residual limb to files ready for fabrication, with each step recorded as it is made.

01 Three reasons clinics choose ReMould

04

02 The workflow, six steps

05

Three reasons clinics *choose* ReMould

One guided workflow, socket-specific tools, and one workspace for the whole clinic.

01

A guided clinical workflow

Every socket follows the same documented path from scan to export, so quality does not depend on who is at the workstation.

02

Built for sockets, not adapted to them

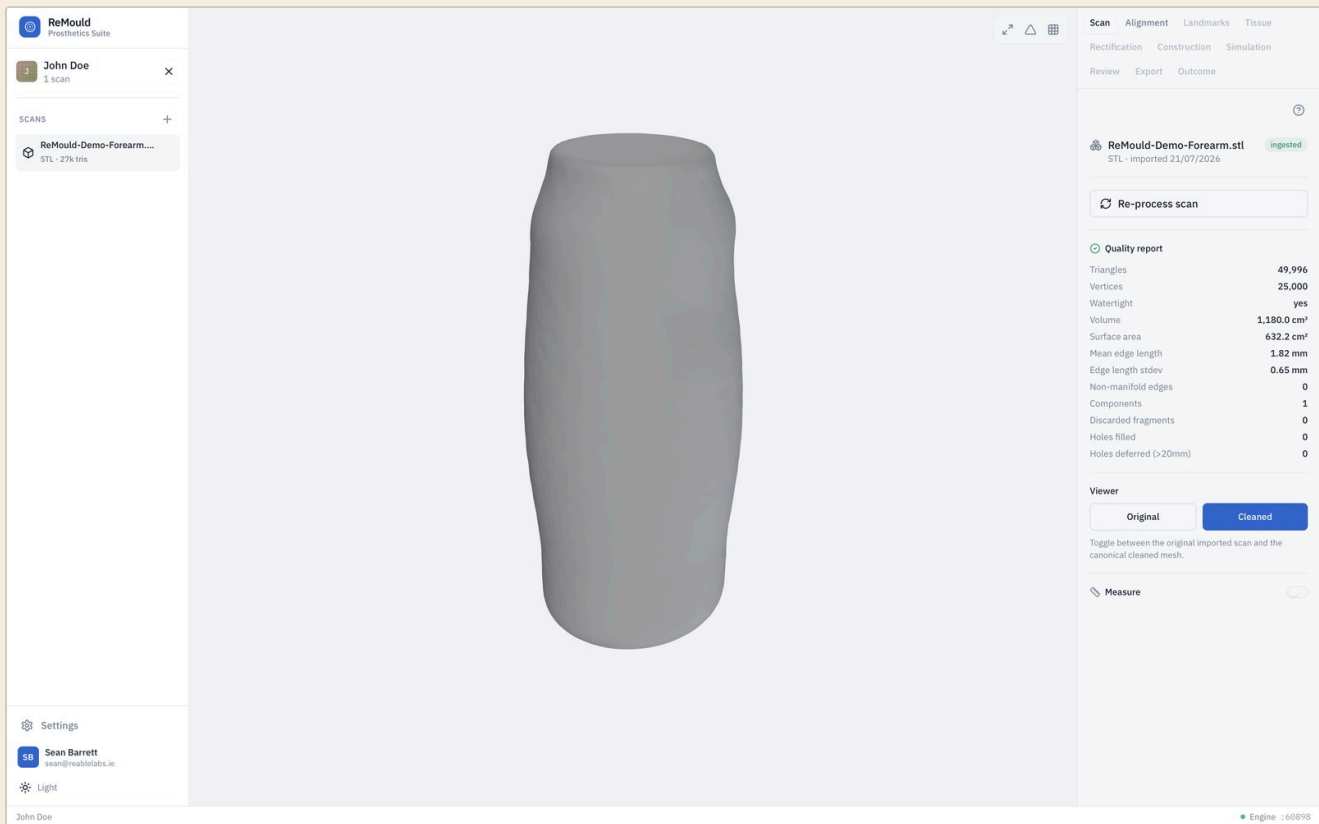
Anatomy-aware presets, clinical trim anchors, and rectification tools that mirror plaster technique, rather than a generic CAD package.

03

One system for the whole clinic

Design, components, records, billing documents, and scheduling in a single encrypted workspace.

01 Import scan

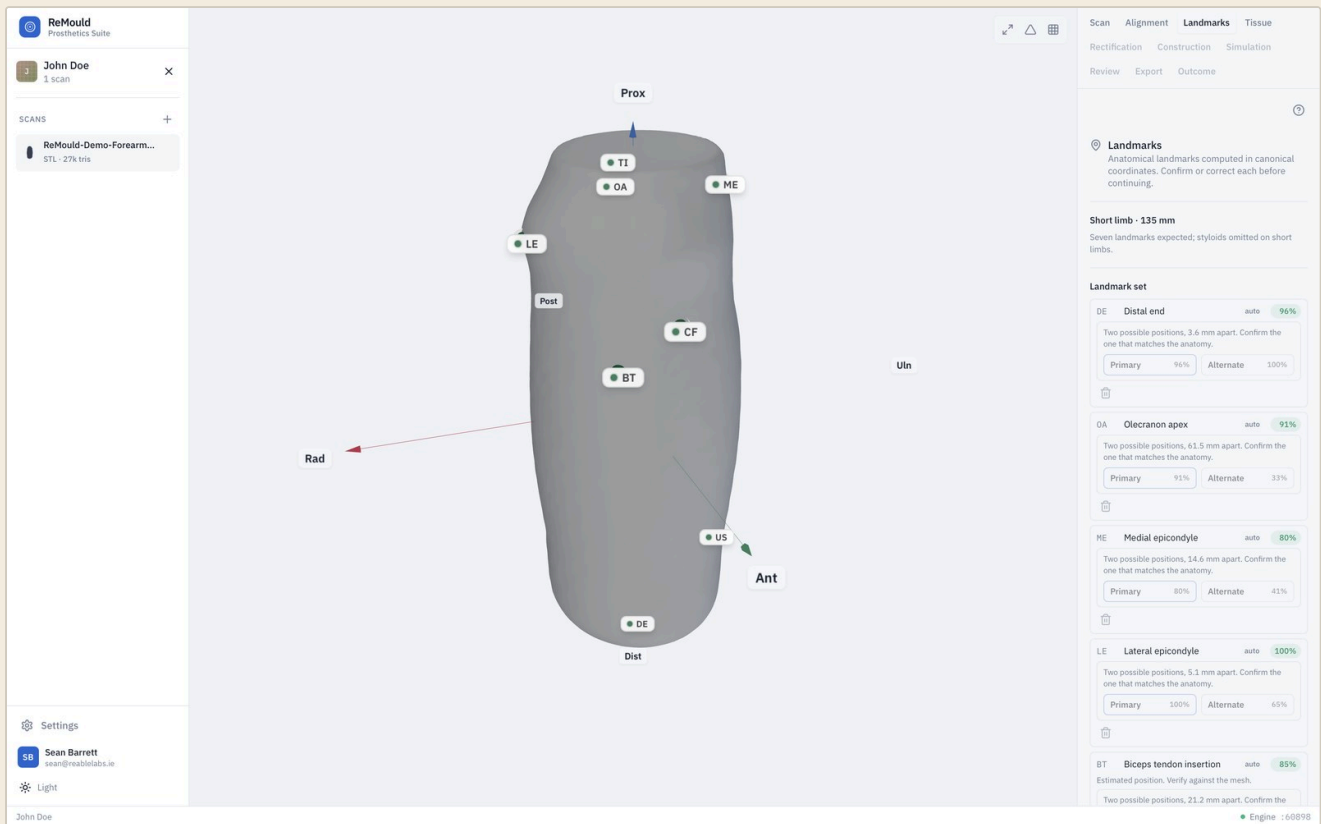


Every case starts with a 3D scan of the residual limb, imported from any scanner that exports standard formats. ReMould checks the mesh on import: watertightness, geometry integrity, scale, and triangle count. Problems are flagged on the scan record before any design work begins, so the shape you design on can be trusted.

■ IN THIS STEP

- 01 **STL, PLY, and OBJ** import from any scanner.
- 02 **A quality report** stored with every scan.
- 03 **Geometry warnings** raised before design begins.

02 Place landmarks

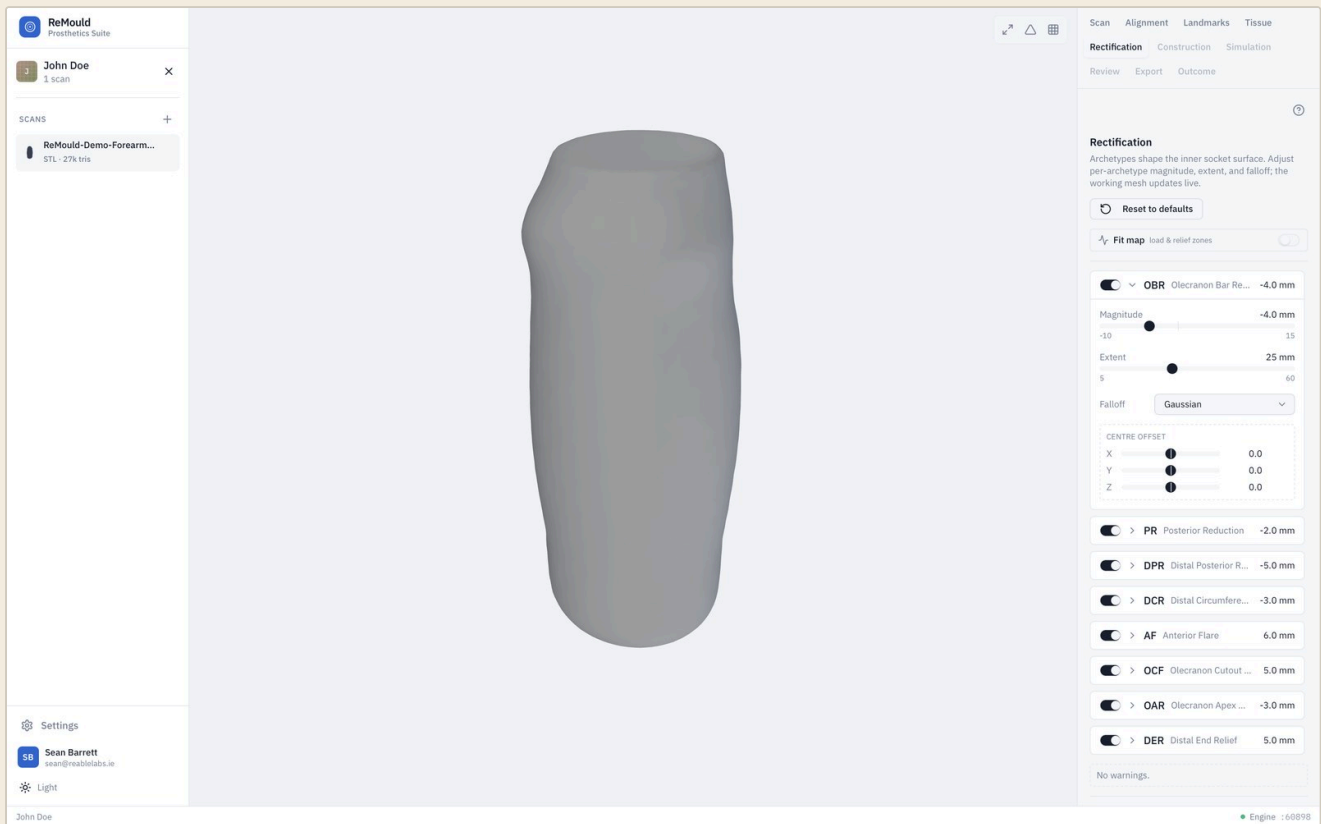


Anatomical landmarks for the chosen amputation level are placed directly on the scan, guided by the preset for that level. The landmarks anchor everything that follows: rectification regions, trim anchors, and measurements, so corrections land where the anatomy says they should.

■ IN THIS STEP

- 01 Presets** for transtibial, transfemoral, transradial, and transhumeral levels.
- 02 Every landmark** is placed or confirmed by the clinician.

03 Rectify

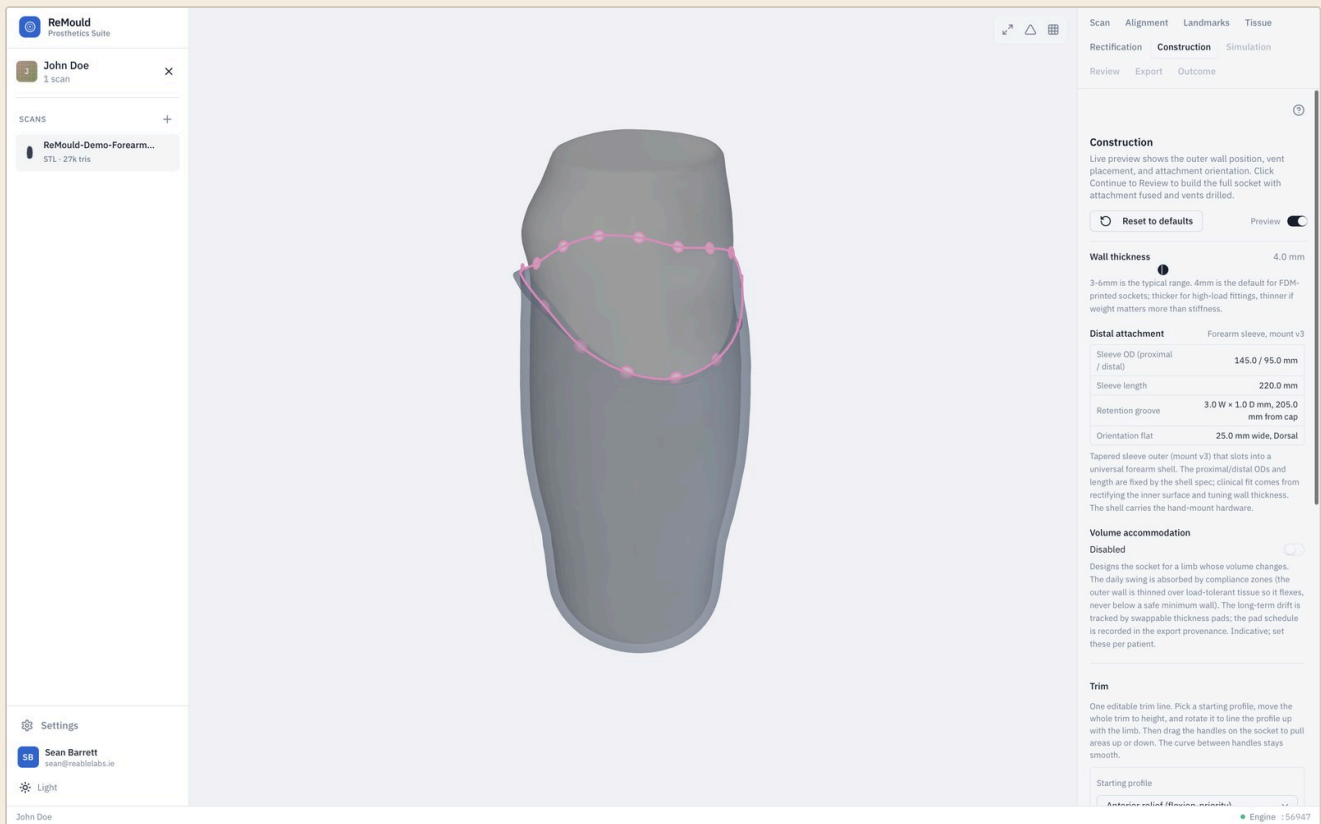


Shape corrections are applied region by region, mirroring traditional plaster technique: relief over pressure-sensitive prominences, loading where the limb carries weight well. The preset provides clinically informed starting values; every value remains the clinician's to adjust, and the live preview shows the effect of each change as it is made.

■ IN THIS STEP

- 01 **Per-region corrections** with clinical starting values.
- 02 **Every adjustment** recorded in the design history.

04 Define trim lines

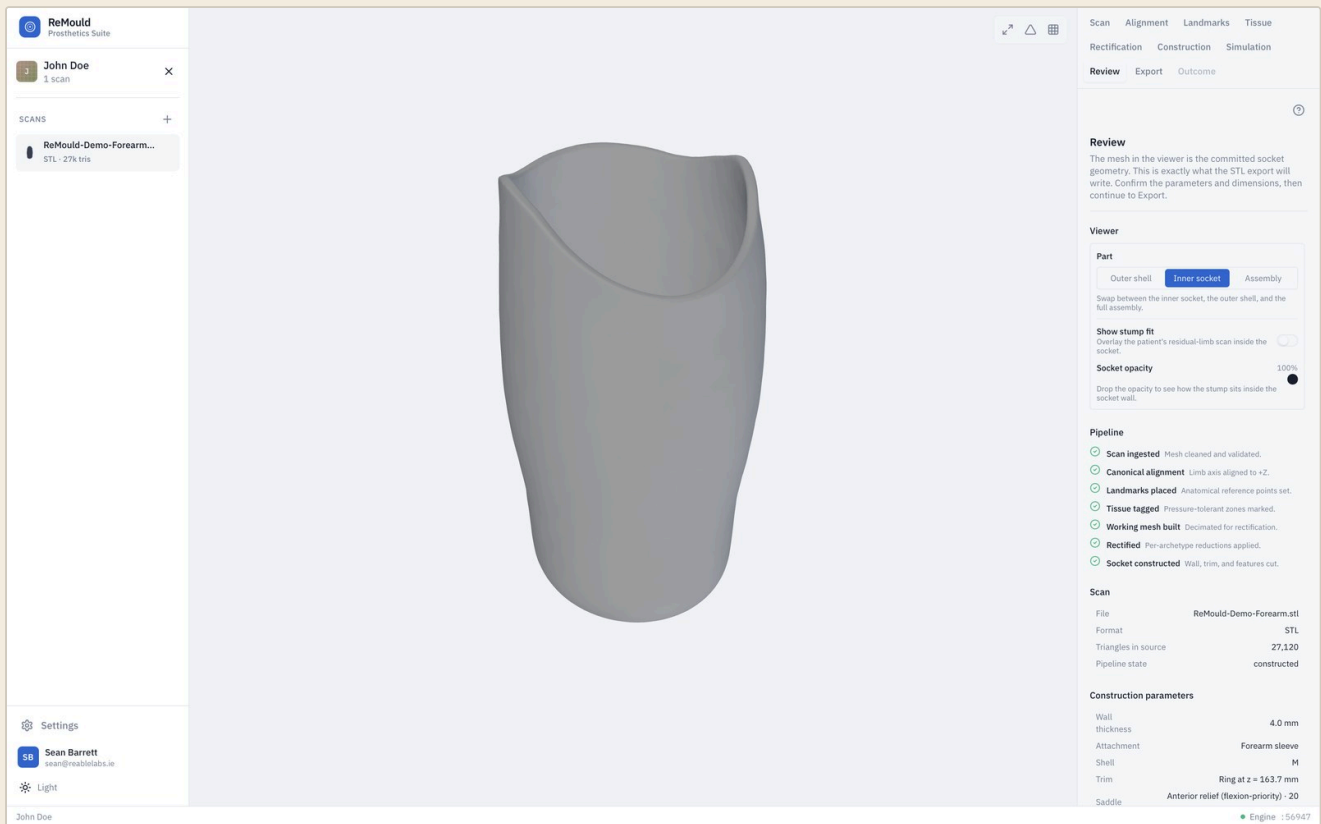


The trim line is one smooth, editable curve with drag handles, anchored to the anatomical points placed earlier. Validation checks the curve as it is edited, so the line that reaches fabrication is one that will finish cleanly.

■ IN THIS STEP

- 01 **A single editable curve**, not disconnected segments.
- 02 **Anchored to anatomy**, checked by validation.

05 Generate socket

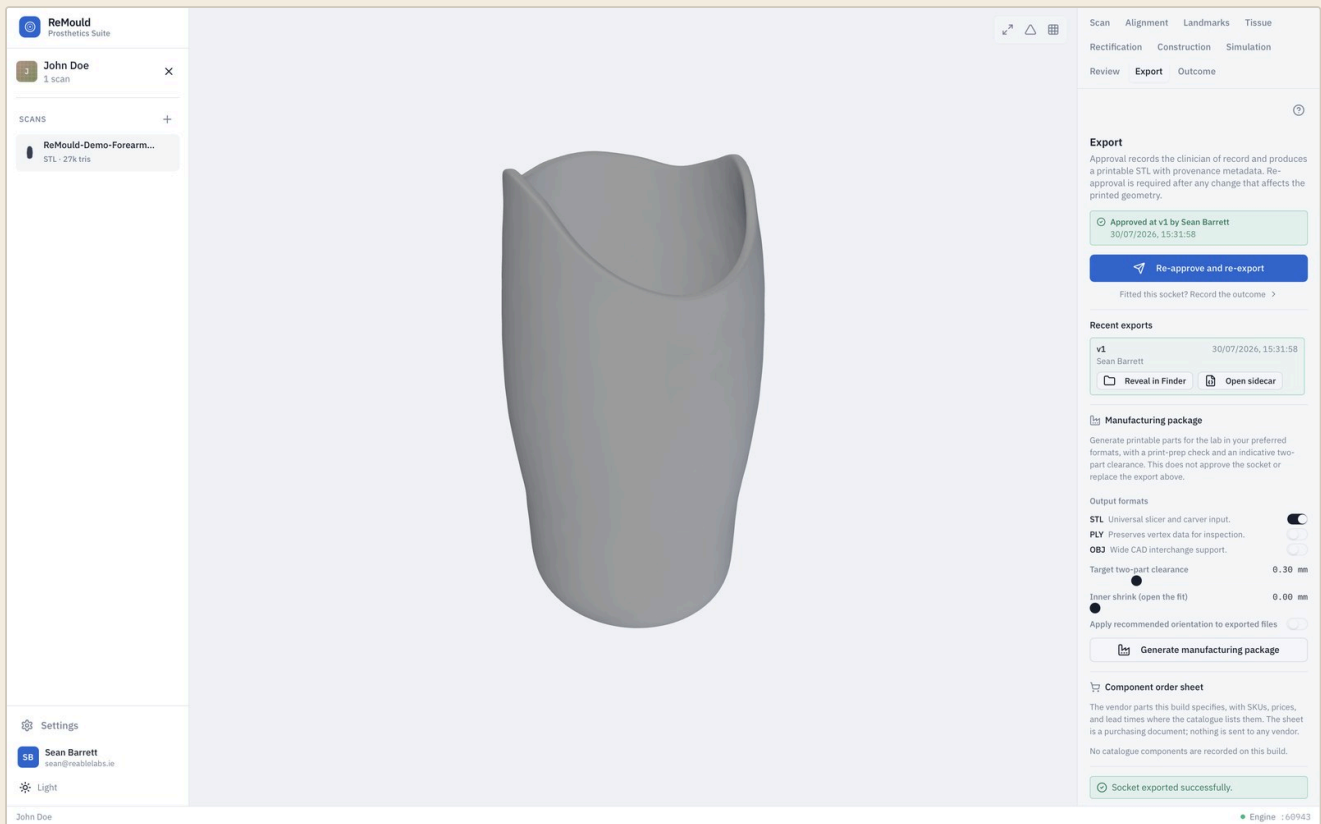


The socket is generated from the rectified shape with the construction options for the case: wall thickness, distal attachment, and ventilation. Lower limb builds carry pin lock, pyramid, or vacuum attachments. Upper limb builds produce a two-part construction, an intimate inner socket inside a styled outer shell with a standard wrist connector interface. Volume accommodation can shape the build for a limb whose volume is still changing.

■ IN THIS STEP

- 01 **Pin lock, pyramid, and vacuum** distal attachments.
- 02 **Two-part** upper limb construction.
- 03 **Volume accommodation** for changing limbs.

06 Check and export



The finished socket is reviewed and approved before anything leaves the clinic. Approval records who signed off and when, and the exported files carry provenance metadata tied to that approval. The manufacturing package prepares STL, PLY, or OBJ output with watertight checks, recommended print orientation, shrink compensation, and clearance checking between the inner socket and outer shell.

■ IN THIS STEP

- 01 **Clinician approval** gates every export.
- 02 **Provenance metadata** on every exported file.
- 03 **A QA report** for every part.

A record at every step Each step records what was changed, by whom, and when.

02

Built around the people in your *clinic*

The same workflow supports prosthetists, clinic owners, and fabrication technicians, each with what their role needs.

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03	Fabrication technicians	18

■ BUILT AROUND THE PEOPLE IN YOUR CLINIC



■ PROSTHETISTS

How ReMould benefits *prosthetists*

Tools shaped around the way you design sockets, from the first scan through to the exported file.

What *matters* to you

■ WHAT DRIVES YOU

Consistent socket quality
across every patient.

More time on clinical work,
less on rework.

Confidence that the digital
shape matches what you
would do by hand.

■ WHAT YOU WANT TO ACHIEVE

A shorter path from
scan to first fitting.

A repeatable,
documented
rectification process.

A clear record of
every design decision.

■ WHAT IS STOPPING YOU

Generic CAD tools that
were never designed for
sockets.

Steep learning curves that
slow adoption.

Scans, designs, and
records scattered across
separate tools.

How ReMould *helps* prosthetists

01

Guided workflow

Every socket follows one path: scan, landmarks, rectification, trim lines, generation, export.

02

Socket presets

Transtibial, transfemoral, transradial, and transhumeral, with anatomy-aware defaults for each level.

03

Trim-line editing

A single smooth editable curve with drag handles, anchored to anatomical points, with validation.

04

Per-region rectification

Shape corrections applied region by region, mirroring traditional plaster technique.

05

Socket simulation

Engineering guidance on the socket geometry, for you to review and interpret.

06

Audit trail

A record of what changed in a design, by whom, and when.

07

Volume accommodation

Design the socket for a limb whose volume is still changing, informed by comparison against earlier scans.

08

Outcome recording

Record the fitting outcome against each socket, so the design history tells the whole story.

■ BUILT AROUND THE PEOPLE IN YOUR CLINIC



■ CLINIC OWNERS AND PRACTICE MANAGERS

How ReMould benefits *clinic owners*

One workspace for design, records, billing documents, and scheduling across the whole clinic.

■ WHAT DRIVES YOU

The clinic's reputation for quality.

Confidence in data protection.

Being locked into one fabrication vendor.

How ReMould *helps* owners

01

Team management

Seat-based team management with invitations and role control.

02

Encrypted cloud sync

Designs and records synced across the clinic, encrypted in transit and at rest.

03

Region-aware billing

Claims tracked from draft through submitted, approved, and paid, with built-in HCPCS L-code and ICD-10 reference libraries, CMS-1500 forms for US payers, and itemised invoices for Irish clinics.

04

Calendar sync

Two-way sync with Google Calendar and Outlook.

05

Open export

Export in standard formats to any fabrication route.

06

Audit logs

A record of design and access events for accountability.

■ BUILT AROUND THE PEOPLE IN YOUR CLINIC



■ FABRICATION TECHNICIANS

How ReMould benefits *fabrication technicians*

Files prepared to fabricate correctly, with checks built in before they leave the clinical side.

■ WHAT DRIVES YOU

Less manual mesh cleanup.

Predictable connector interfaces.

Slow back-and-forth over revisions.

How ReMould *helps* technicians

01

Print preparation

Watertight checks, wall thickness, recommended print orientation, and shrink compensation, with a QA report for every exported part.

02

Clearance checking

Between the inner socket and the outer shell.

03

Standard distal attachments

Pin lock, pyramid, and vacuum.

04

Open export formats

STL, PLY, and OBJ export.

05

Component catalogue

Prosthetic hardware with accurate dimensions and specifications, so the parts in a design match the parts on the bench.

06

Versioned files

File versions kept through cloud sync.

03

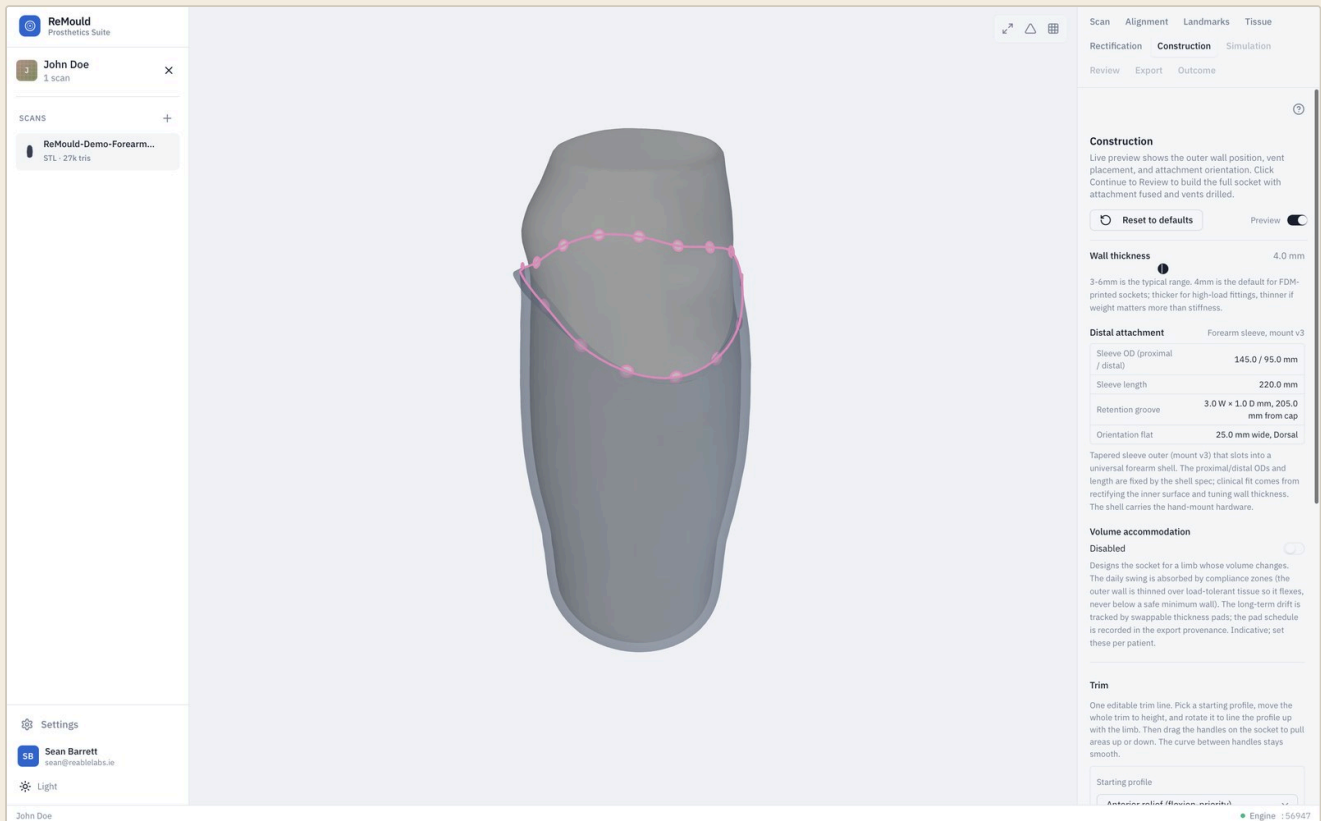
What is inside *ReMould*

The design core, the fabrication tools, and the clinic tools that sit around them.

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Socket design

Design lower and upper limb sockets from a rectified scan, with clinical trim anchors and smooth editable curves.



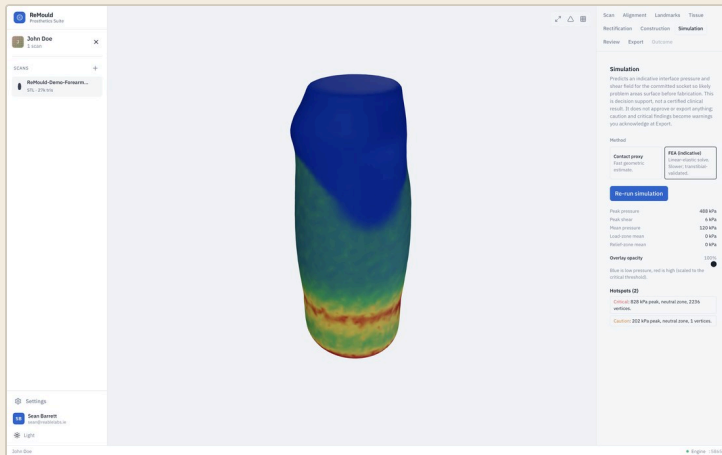
Trim lines are defined as a single smooth editable curve with drag handles, anchored to anatomical points and checked by validation.

Presets cover transtibial construction with PTB-style trim anchors, transfemoral ischial containment, and upper limb two-part construction for both below-elbow and above-elbow levels.

■ KEY CAPABILITIES

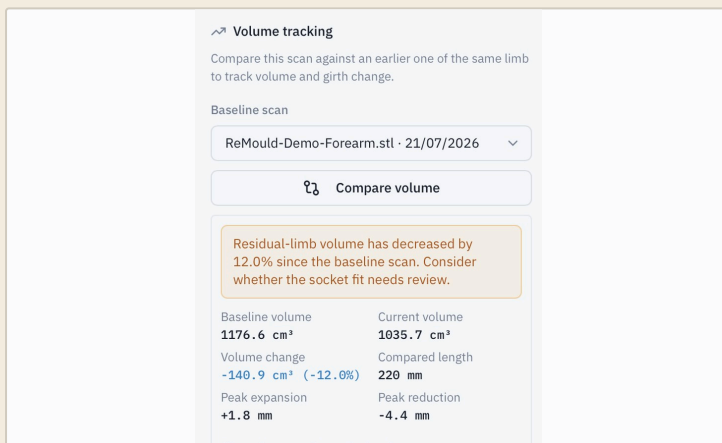
- 01 **Transtibial** construction with PTB-style trim anchors.
- 02 **Transfemoral** ischial containment preset.
- 03 **Editable trim curve** with drag handles and validation.
- 04 **Upper limb two-part** socket for transradial and transhumeral levels, inner socket plus styled outer shell.
- 05 **Distal attachments:** pin lock, pyramid, and vacuum.
- 06 **Volume accommodation** for limbs whose volume is still changing.
- 07 **Scan quality checks** on import, including geometry integrity warnings.

Simulation and *follow-up*



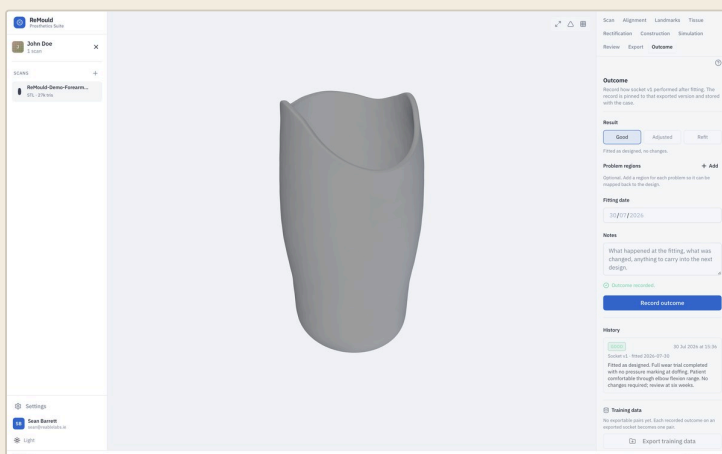
Socket simulation

Simulation provides engineering guidance on the socket geometry for the clinician to interpret. It is not a prediction of fit or a clinical assessment.



Longitudinal comparison

Compare scans of the same limb across visits to track how its shape and volume change over time, to inform the clinician's decisions.

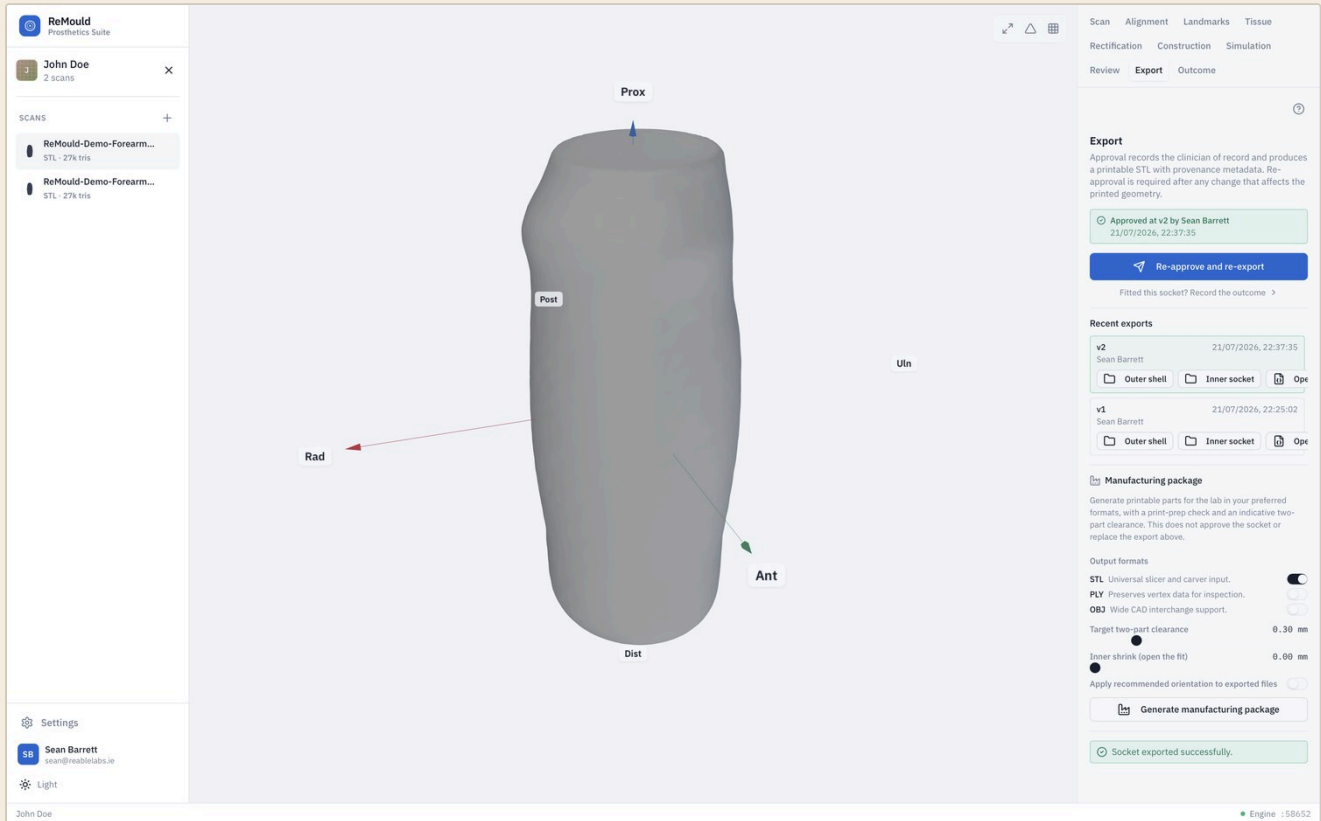


Outcome recording

After a fitting, the clinician records the outcome against the exported socket. Over time this builds a per-patient history of designs and outcomes.

Fabrication

Prepare a design for manufacture and export it to any fabrication route.



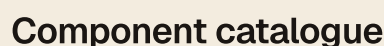
Print preparation runs watertight checks and sets orientation, wall thickness, and shrink compensation. Clearance checking confirms the fit between the inner socket and the outer shell before a file leaves the clinic.

Every approved export carries provenance metadata tied to the approving clinician.

■ EXPORT AND PRINT PREP

- 01 **Watertight checks** and wall thickness.
- 02 **Clearance checking** between socket and shell.
- 03 **Export formats:** STL, PLY, and OBJ.
- 04 **Distal attachments:** pin lock, pyramid, and vacuum.
- 05 **Recommended orientation** and shrink compensation.
- 06 **Per-part QA report:** watertight status, triangle counts, and material volume.

Components, billing documents, and scheduling in the same encrypted workspace as your designs.



Billing documents

Calendar sync

Two-way sync with Google Calendar and Outlook.

Shared clinic schedule

Security and data *protection*

Patient identifiers are encrypted on the clinician's machine before anything is synced.

<i>01</i> Encryption at rest AES-256-GCM encryption of stored design bundles.	<i>02</i> Client-side encryption Patient identifiers encrypted on the clinician's machine before any sync.
<i>03</i> Organisation key escrow Key escrow so a clinic never loses access to its own data.	<i>04</i> Audit logging An audit trail of design and access events.
<i>05</i> Key rotation Organisation keys can be rotated, with old keys revoked server-side so a departed device cannot keep writing.	<i>06</i> Offline by design The full design workflow runs without a connection. Cloud features sync when the clinician chooses.

07

Data residency and hosting

The 3D design bundles stay on the clinic's own workstations and sync only when a clinician chooses to share them, encrypted in transit and at rest. The shared practice records are hosted on Google Cloud, encrypted in transit and at rest, with the hosting region set to meet the clinic's data-residency requirements. ReAble Labs operates this service as a data processor under a data processing agreement with each clinic.

See ReMould on your *own scans*

We can walk your team through the workflow with your own scans and fabrication route, and answer any questions from your clinicians, owners, and technicians.

[Book a demonstration](#)

[Contact ReAble Labs](#)

ReMould



CORK, IRELAND

ReMould is design and manufacturing software intended for use by qualified prosthetics professionals. It does not provide medical advice, diagnosis, or treatment. Clinical decisions remain the responsibility of the treating clinician.

ReMould is in development and has not been approved or cleared by any regulatory authority. It is not yet available for clinical use, and the features described in this guide may change before release.