

Digital Hybrid Data Verification Process

Multiple research studies have confirmed the accuracy of full-arch intraoral scanning. However, in model-less fabrication workflows, the laboratory is left without physical checkpoints to verify processing accuracy. Any unforeseen glitch in data transfer or an inaccuracy during additive or reductive manufacturing can result in a poorly fitting final prosthesis, leading to frustration and hours of wasted chair time.

Our proprietary verification process for full-arch restorations ensures every case is triple validated against all data points before delivery. By digitally cross-verifying the accuracy of all components and data sets, we can now identify potential data or processing inaccuracies and take corrective action long before the patient is ever in the chair.

Analogue accuracy ... digitally confirmed!

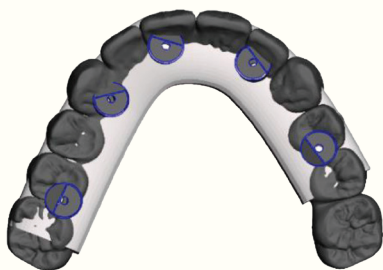
PMMA PROTOTYPE



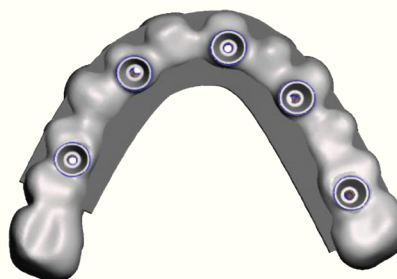
HIGHWATER VERIFICATION JIG



IO SCAN DATA VERIFIED WITH
VERIFICATION JIG AND PROTOTYPE



IO SCAN DATA VERIFIED WITH
FINAL HYBRID



INTRA-ORAL PICK UP
JIG WITH RECEPTACLE



VERIFIED INTRA-ORAL JIG
WITH MUA COMPONENTS





Digital Hybrid Data Verification Process

Digital Workflow Zirconia Direct to MUA

Data Acquisition and Design

- Submit IO scan data through secure portal at absolutedentallab.com or scanner portal
- Lab designs a printed prototype try-in and highwater verification jig direct to MUA
- Lab digitally verifies prototype and highwater verification jig scan files to the original IO scan data before returning for try-in

Prototype and Data Verification – Clinical

- Highwater verification jig is seated intra-orally to confirm IO scan data accuracy
- *In case of fit discrepancy, section and lute. Call lab for assistance with new scan capture
- Prototype is seated to verify bite and esthetics
- If no adjustments are needed to prototype – Send lab approval to process final

Adjustments needed to prototype

- Capture new smile pictures (retracted, low and high smile)
- Capture new IO Scan of adjusted prototype in place, opposing arch and new bite
- Request new prototype try-in to verify data before proceeding to final

Final

- Zirconia hybrid – Absolute will verify accuracy by digitally comparing IO scan, verification jig, and final hybrid before returning for delivery

Digital Workflow Zirconia with Titanium Interface to MUA

Data Acquisition and Design

- Submit IO scan data through secure portal at absolutedentallab.com or scanner portal
- Lab designs a printed prototype try-in and milled verification pick-up jig with 5mm pre-designed pick-up receptacles
- Lab digitally verifies prototype accuracy by comparing the scanned file to the IO scan data before delivery
- Lab returns prototype, verification pick-up jig and temp cylinders for intra-oral pick up

Prototype Verification and MUA Position pick-up – Clinical

- Seat temp cylinders onto MUA, slide pick-up jig with pre-designed holes over cylinders and lute in place using an acrylic pick-up or resin
- Flow PVS material under pick-up jig to capture tissue position
- Confirm bite, evaluate esthetics and adjust if required
- If no adjustments are needed to prototype – Send lab approval to process final

Adjustments needed to prototype

- After adjustments are made capture new smile pictures (retracted, low and high smile)
- Capture new IO Scan of adjusted prototype in place, opposing arch and new bite
- Request new prototype try-in to verify data before proceeding to final

Final

- Zirconia hybrid – Absolute cements titanium interfaces into hybrid using pick-up data. Accuracy is verified by digitally comparing IO scan data, pick-up jig, and final hybrid before returning for delivery