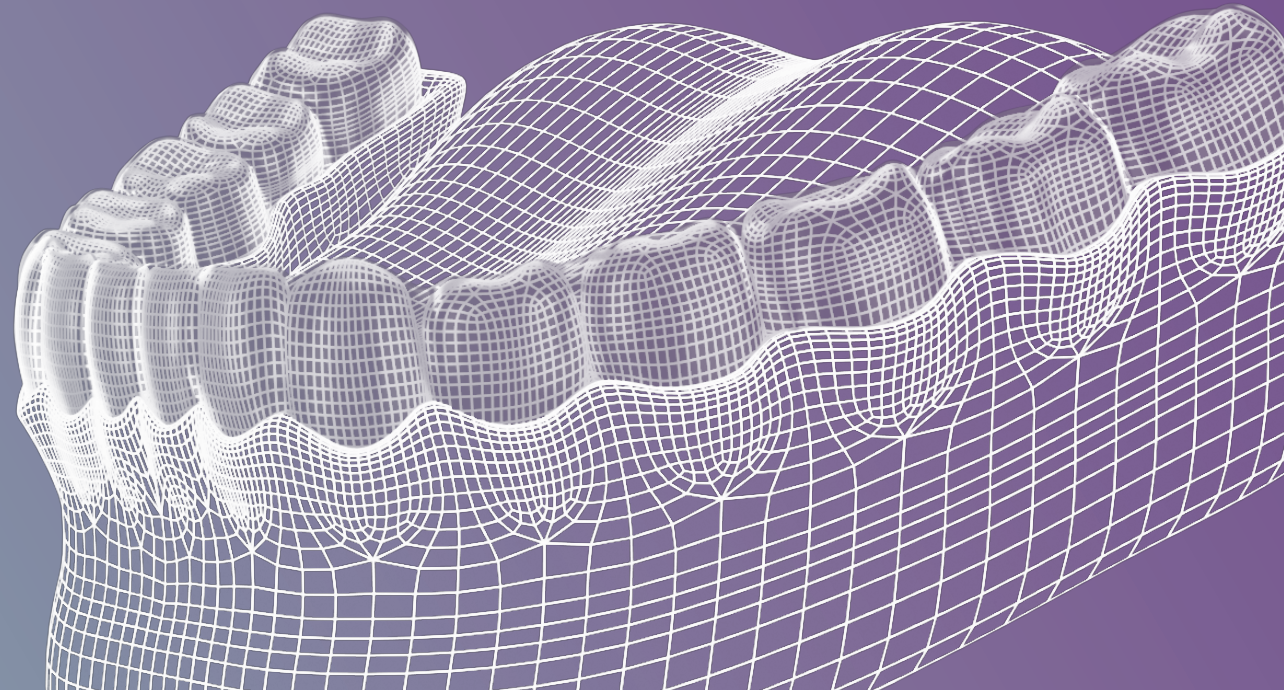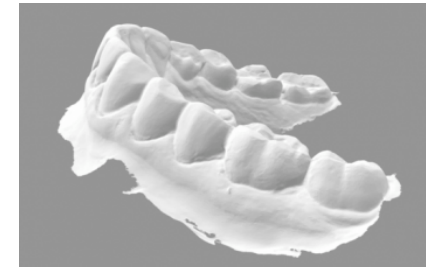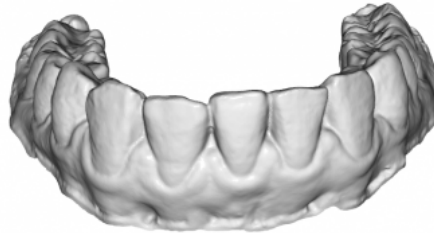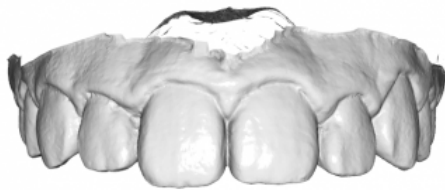# Xflow AI Service Configurations Help Guide
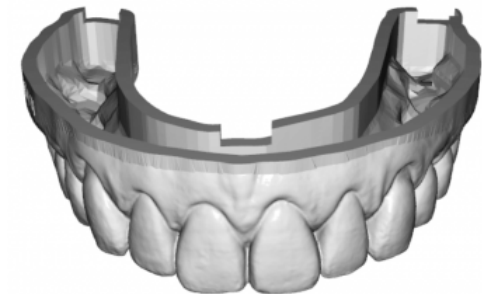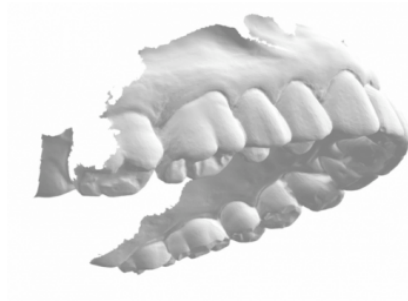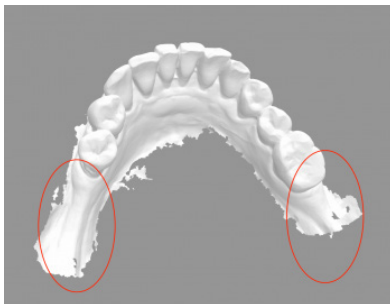
What doesn't process well?

- Large Files over 40MB
- Poor Quality Scans
  - Missing Scan Data
  - Missing multiple teeth
  - Extra Scan Artifacts
- Quadrat Scans (need to be full arches)
- Bands & Wires (still 95% success rate)

What Good Cases Looks Like

What Bad Cases Looks Like

Retainer and Digital Model AI Settings

Create New Order | Product Specifications

Patient ● — Product & Partner ● — Product Specifications ○ — Files ○ — Summary ○
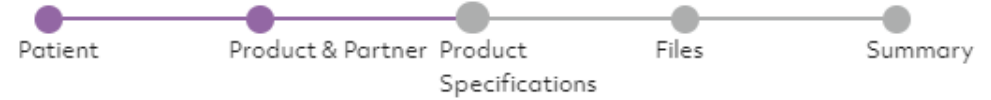
Product type & partner

Retainer

Xflow AI
- ⊙ AI Designs
- ⊙ Design Services

Automatic Bracket Removal	⊙ (off)	This must be enabled if your patient had braces upon scanning. This cleans up the scan so that it can be model based and trim path applied
Automatic Model Basing	⊙ (on)	This must always be enabled when using automated trim path generation
Remove Molar Gingiva	⊙ (off)	Remove the excess gingiva tissue behind the molars

Trim Horseshoe	⬤ (on)

❶ Toggle on for Horseshoe or off for full palate
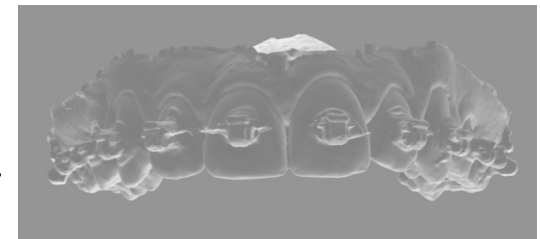
Trim Margin (0.1mm - 6.0mm)	2.5

❷ Width of the gingival tissue

Base Margin (0.1mm - 10.0mm)	2

❸ Height of the added base material

Base Hollow	⬤ (on)

Base Thickness (2.0mm - 3.0mm)	2.5

❹ Related to hollow bases: width of the wall of the base 5mm is essentially a solid base

Base Drain Height (0.5mm - 3.0mm)	2

❺ This relates to the height of drain holes used to drain out resin
(can not be applied to solid bases)

Base Drain Width (3.0mm - 10.0mm)	6

❺ This relates to the width of drain holes used to drain out resin
(can not be applied to solid bases)

Base Label	Filename

Defines what is printed (Filename prints STL file name). Will be placed on the bottom.

Base Side Label	⬤ (on)

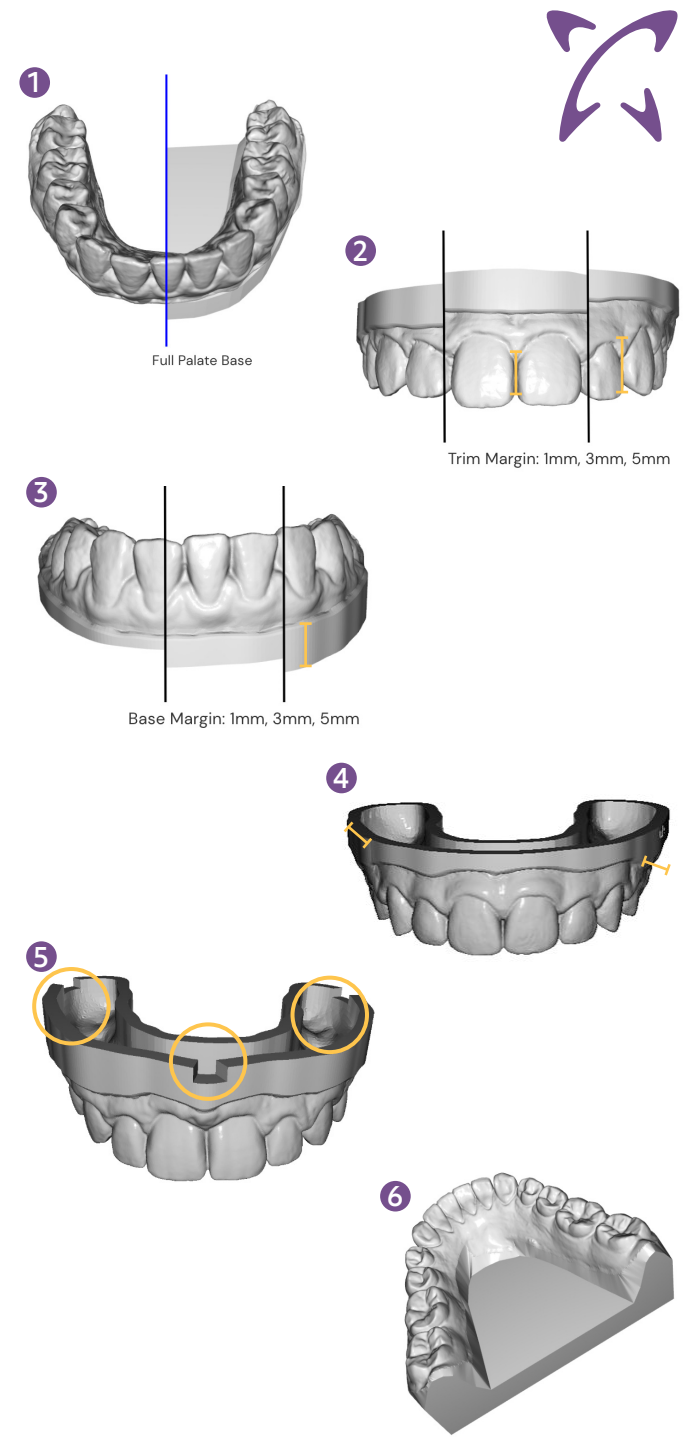Hollow models must have side labels (see next page for more info on labels)

Base Block Label	

If less than 8 characters, this will be place in the center of the model, if more it'll place on the side

Base Z Axis Aligned	⬤ (on)

Optimal for 3D printing, sets Z axis for 0

Base Extrude Palate	⬤ (off)

❻ Creates a flat back at edge of the base

Base Bevel	⬤ (off)

Adds a transition edge between the gingival tissue and the added base (if not selected, there will be a smooth transition between these two)

Base Keep Occlusion	⬤ (on)

If this is selected, it does not rotate model to minimise resin usage (won't set Z to 0)

⬤ See next page!

❶ Full Palate Base

❷ Trim Margin: 1mm, 3mm, 5mm

❸ Base Margin: 1mm, 3mm, 5mm

❹

❺

❻

Automatic Trim Path

Automatic Trim Path Generation	(on)	Enable this to activate automated Trim path generation (relates to LAC)
OCR Block Label	(off)	Enable to have base printed for automatic job recognition capability with LAC
Scalloped Trim Path	(on)	When not enabled, trimpath will remain straight
Trim CNC Margin (0.5mm - Trim Margin)	2	The lower this is, the closer the trim path will be to the teeth
Include Normal Vector	(on)	Vector points that tells the machine where to cut which essentially creates optimal points. Recommend on unless having viewing issues
Preserve Molars	(on)	On if the trim path should go around the back of the molar. Off if the trim path should go through the middle of the molar. Default value is off
Molars Edge Distance	2.5	Distance from the gingival margin of the molar the trim path should be routed. Only applied if Preserve Molar is on. Recommended value: 2.5mm (How close do we get tot he gingival tissue)

Labeling Options
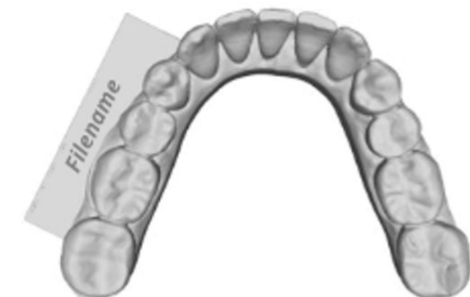
Base (Bottom) Label

Base Side Label
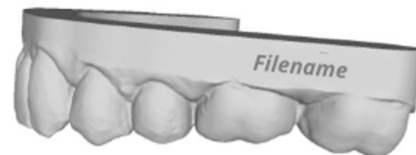
Base Block Label (Center)

Base Side Label

If less than 8 characters, this will be place in the center of the model → if more it'll place on the side

Create New Order | Product Specifications

Patient — Product & Partner — Product Specifications — Files — Summary

Product type & partner

Aligner Trimline

Xflow AI
- AI Designs
- Design Services

Trimpath Type	STRAIGHT
	HYBRID
	SCALLOPED
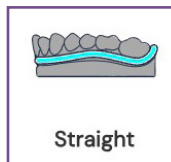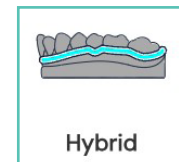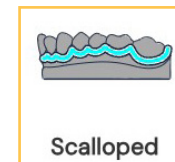
Straight   Hybrid   Scalloped

Trim Margin (0.1mm - 6.0mm)	2

Width of the gingival tissue

Preserve Molars	🟣

On if the trim path should go around the back of the molar. Off if the trim path should go through the middle of the molar. Default value is off

Trimpath Molar Height (-1.0mm - 3.0mm)	1

Distance from the gingival margin of the molar the trim path should be routed. Only applied if Preserve Molar is on. Recommended value: 2.5mm (How close do we get tot he gingival tissue)