Stratasys Denture Offering

Default Design Standards

System Step	Design Step	Description
Prepare	Model Creation (IOS)	Bite alignment or checking alignment is going to be done for each case.
		All scans to be refined.
		All scans will be trimmed 2-3mm beyond the sulcus to keep as much tissue as possible.
	Tooth Removal	All teeth will be removed (Including roots, if roots should stay, customers need to specify in instructions)
		All locators and bars are going to be maintained as default and blocked out. If they should be removed customers need to specify in instructions
		Tooth removal is going to be following the ridge line, with no deep scalloping.
	Post Dam	All cases will be designed with post dam, 0.5mm-1mm depth.
		Cases with locators will not have post dam.
	Repair Model	**Minor scans imperfections will be adjusted accordingly, such as holes or bubbles.**
		In the case of extra material compromising the design, the denture will be placed on hold.
Model Analysis	Occlusal Plane	Reference Denture: OP will be followed, if no teeth set up changes codes are present.
		Bite Block Denture: OP will be followed, if no teeth set up changes codes are present.
		Immediate denture: OP will be followed or improved according to the patient's existing teeth.
	Characteristic Points	Points to be placed according to patient's ridges and anatomy.
	Upper Jaw Boundary	Border placement to be positioned 0.5mm beyond the sulcus.
	Lower Jaw Boundary	Border placement to be positioned 0.5mm beyond the sulcus. Anterior area will be on the sulcus to allow muscles insertion movement. Retromolar pads in triangle shape to avoid covering retentive areas
Surveying and Blocking Out	Blocking Out	Insertion direction will be moved from 0 to 10 degree's according to the patient's ridge to improve retention.
		No block out angle will be done.
	Wax Trimming	Minimal block out (red and orange areas only) will be done if no other code is selected.
		Wax thickness to be done at a minimum to avoid fitting issues.
FDI Initial Set Up	Smile Composer	Ideal set up is going to be done in all cases. According to patient's ridges, teeth position references and codes.
		IF NO CODES SELECTED:
		Patient's ridges will be followed for class bite.
		Default teeth combination will be selected depending on the shape. Default: Blueline, Second Nobilium, Ivoclar DCL if requested
		VDO: Maintained as the customer sent it. If it's too closed, designer will reach out to customer service/place on hold to request opening.
		Curve of Spee no higher than 1mm in the second molar
		No teeth morphing allowed
		Bite Class Overlap Defaults:
		Class I: OB 1-2mm. OJ: 1-2mm
		Class II: OB: 1-1.5mm. OJ: 1.5-4mm.
		Class III: OB: 0-(-)1mm. OJ: -1-(-)2mm.
	Maxillary base	Base Thickness 2.75mm. No relief. No drill compensation ON. No locator openings.
		Festooning tool selected: Natural
	Mandibular base	Base Thickness 3.0mm. No relief. No drill compensation ON. No locator openings.
		Festooning tool selected: Natural
Anatomy Design	Connectors	Setting connectors to minimum: 70,70,60 (for bridged sections).
	Sculpt Anatomy	Occlusion adapted at 0.0mm. Using the articulator we will adapt to 0.05mm on any contacts needing balanced occlusion.
		Single cases will be adapted by hand with the morphing tool when there is deep contacts.
	Sculpt Denture Base	Festooning Characterization depeding on codes. Default: MEDIUM. **(High Festooning Not recommended)**
		Papillas: All of the papillas are going to be even in anterior area and posterior area.
		Gingival margins to follow green line of teeth libraries (length).
		No stippling, No T-Bars.
	Coupling mechanism	Coupling depht at 3.00 mm.
	Pre-Manufacturing	Glue Space: 0 mm.

Copy Denture Stratasys	**If requesting Copy Denture under Stratasys Design Type**	The designer will design according the Design Standards for the indication requested but setting the default parameters of the Stratasys offering

Partial Stratasys	**If requesting Partial Denture under Stratasys Design Type**	The designer will design according the Design Standards for the indication requested but setting the default parameters of the Stratasys offering

3shape Design Services