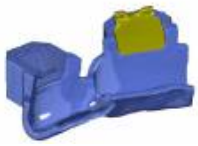
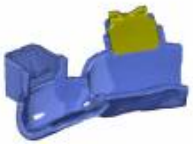
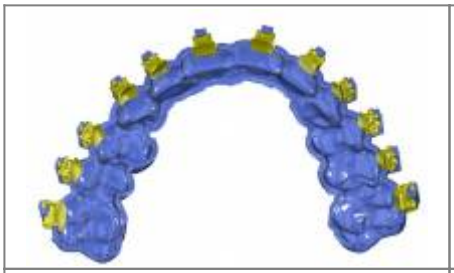
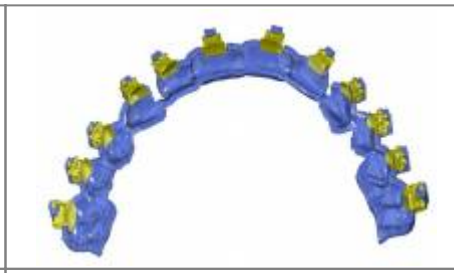
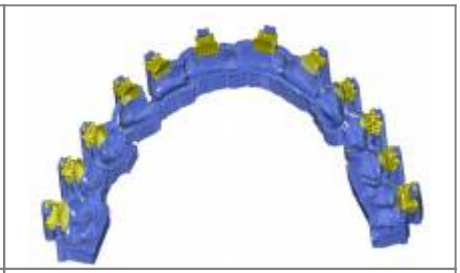
Modul Bonding Trays 3D - Examples

Examples for Bracket Clamp Design

				
Classic sleeve (hull) for rigid material with 0 % Rotation for common pull-off direction for all brackets.	Hull für elastic material with 100 % rotation acc. to the bracket (and 50 % thickness).	Hull for very elastic material with large slot overlap and additional cap at the end of the hull	Classic Kylix ring for bracket placement. Increase the thickness for more stable 3d printing.	Hull with reduced width and short Kylix ring for better accessibility of bracket and glue

Examples for Tray Design

		
Standard tray design with block out for better fit	Tray with thinner occlusal area for easy removal. Added two bridges for optiinal cutting	Tray with planar occlusal contact surface for direct 3d printing

Parameters of Bracket Clamps "Sleeve"

Parameter	Description	Standard
Overlap Slot	Height of the clamp over the slot in direction occlusal or along the bracket	0.5 mm
Rotation	Alignment of the bracket box acc. to the bracket geometry (0 % means a common direction for all brackets, best for taking of the tray, 100 % means most individual fit to bracket without common direction for all)	100 %
Thickness	Relative thickness of the clamp, has not effect on the fit around the bracket	100 %
Distance to Bracket	Additional offset to the bracket, 0.1 mm is more loose, -0.1 a too tight fit	0.0 mm
Cap Height	Height of optional cap from buccal side	0.0 mm (off)
Width	Width relative to bracket for thinner hull	110 % (full)

Parameters of Bracket Clamps "Kylix"

Parameter	Description	Standard
Thickness of base ring	Thickness of the frame below the bracket base, use 0 mm to disable this inner frame	0.0 mm
Thickness of kylix ring	Thickness of the frame around the bracket base, contour can be designed for selected bracket(s)	0.5 mm

Parameters of Tray

Parameter	Description	Standard
Distance to crown	Perpendicular Distance of the tray to the crown surface (i.e. in all directions)	0.05 mm
Thickness	Thickness of the tray	0.60 mm
Block out	Strength of blocking while constructing the tray, features smaller than the chosen size are reduced	0.00 mm
Contact Surface	Create a planar surface using different criteria for easier printing	none
Precision	Resolution of the tray geometry, has no influence on the fit of the brackets	50 %
