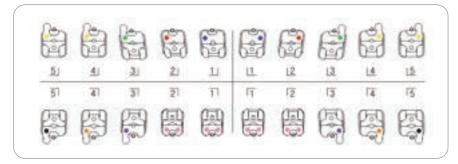
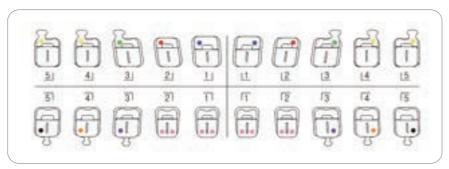
Selpro A Color Marking



Selpro P Color Marking



Selpro A & P Prescription

ROTH .018 / .022

	Tooth	Torque	Ang
Maxillary	Central	12°	5°
	Lateral	8°	9°
	Cuspid with Hook	-2°	11°
	1 st Bicuspids with Hook	-7°	0°
	2 nd Bicuspids with Hook	-7°	0°
Mandibular	Anteriors	0°	0°
	Cuspid with Hook	-11°	7°
	1 st Bicuspids with Hook	-17°	0°
	2 nd Bicuspids with Hook	-22°	0°

	Tooth	Torque	Ang
Maxillary	Central	17°	4°
	Lateral	10°	8°
	Cuspid with Hook	0°	8°
	1 st Bicuspids with Hook	-7°	0°
	2 nd Bicuspids with Hook	-7°	0°
Mandibular	Anteriors	-6°	0°
	Cuspid with Hook	0°	3°
	1 st Bicuspids with Hook	-12°	2°
	2 nd Bicuspids with Hook	-17°	2°

WORLD BIOTECH



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Active Self-Ligating Ceramic Bracket







Passive Self-Ligating Ceramic Bracket



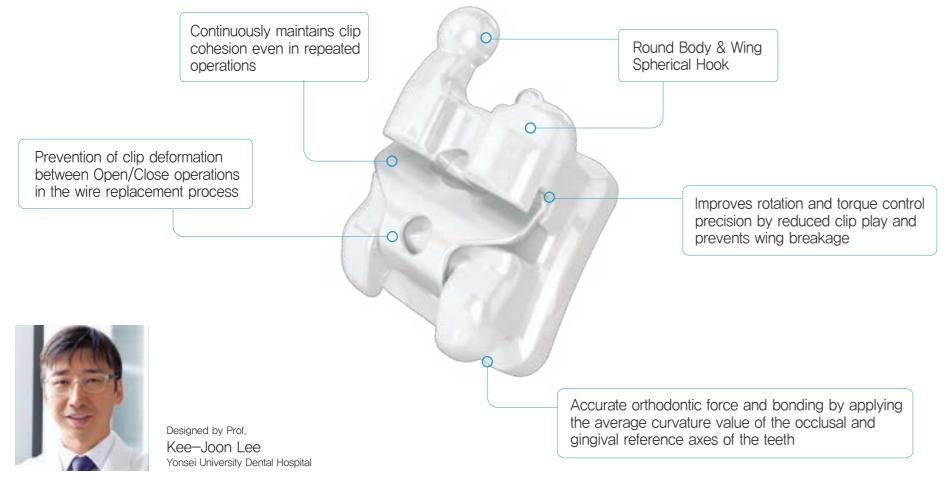






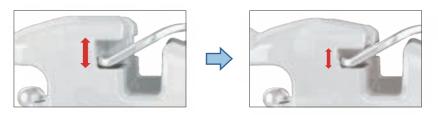
Active Self-Ligating Ceramic Bracket

"Precise Self Ligating Ceramic Bracket System"



"For Self-Ligating Ceramic Bracket, Detail is important"

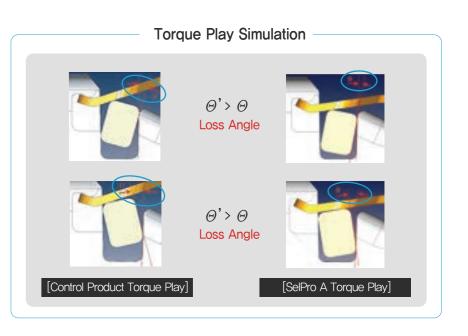




Clip play minimization

- Prevention of clip deformation and improvement of stiffness by realizing precise dimensions of the binding area of clip and bracket
- Strong clamping force of wire due to narrow gap preventing clip opening barrier
- Precise Clip Play : Increased rotation and torque control precision by reducing clip play compared to the control group
- Precise Clip Insertion Slot : Fracture prevention due to increased bracket wing thickness

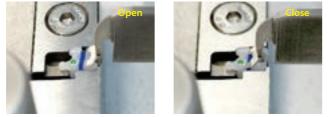






Active Self-Ligating Ceramic Bracket

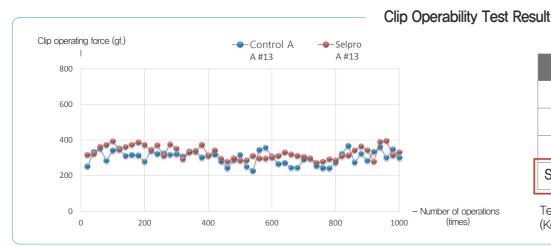




Push Pull Digital Machine (Test Equipment Name)

(How to test the clip operability)

- Strong binding force of the Clip compared to the control group
- Maintaining clip cohesion even after repeated operation
- Prevention of clip deformation between Open and Close operations during wire replacement
- Continuously maintaining strong fixing force to the wire according to the improvement of the clip



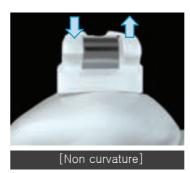
	Control A	Selpro A
Avg.	304 gf.	329 gf.
Max.	369 gf.	396 gf.
Min.	228 gf.	274 gf.
Standard Deviation	37 gf.	35 gf.

Testing institution : KCL (Korea Institute of Construction and Living Environment Testing)



[Occlusal]







Apply Global Citizen Curvature Big Data

The average curvature values of the occlusal and gingival axes of the tooth are applied.

Precise Canine Curvature : Maximizes the convenience of adjusting the rotation of canines and premolars by forming a curvature that fits the teeth



Round Body & Wing and Spherical Hook

Spherical hook that minimizes the contact surface in the oral cavity Round design applied to reduce foreign body sensation and pain



Mandibular Anterior Morphology

Rhombus – shaped base design tailored to the tooth shape Prevention of interference between adjacent teeth and securing of IBD (Inter Bracket Distance)



Passive Self-Ligating Ceramic Bracket

"Precise Self Ligating Ceramic Bracket System"

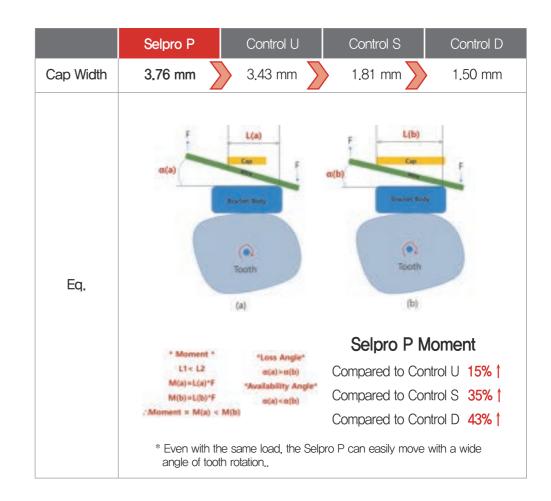


"Detail is important for Self Ligating Ceramic Bracket."



Super Rotation Control Moment

 $15 \sim 43\%$ higher rotation control moment than the control group



Minimum Rotation Loss Angle

Minimize wire inclination angle by realizing maximum ceramic cap width (Loss angle) Reduced Wire Loss Angle Increases Available Angle (Available Angle)



Passive Self-Ligating Ceramic Bracket



Stable cap structure by CAE structure analysis

Improved cap drop-off strength by applying PPC structure with increased resistance to wire load

Application of UBH /DBH structure with operability implemented

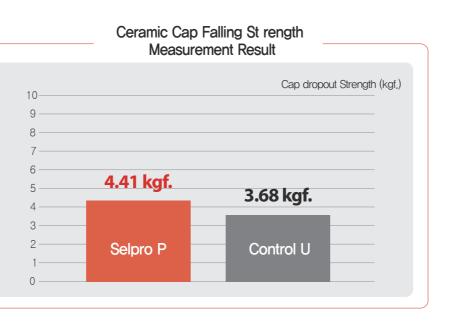
Improved open/close operation by applying patented UBH / DBH structure

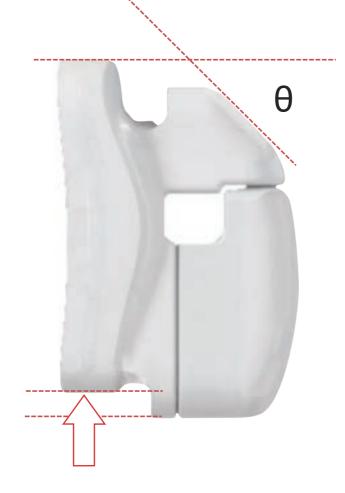
(How to measure the strength of ceramic cap falling)





Testing institution : KCL (Korea Institute of Constructionand Living Environment Testing)







Safe Overbite – Overjet Structure

Mandibular Bracket's wing has the inclined structure to minimize interference to the upper incisors. Base Design for convenience of Mandibular Bracket position

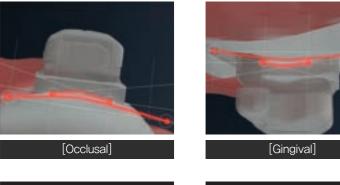


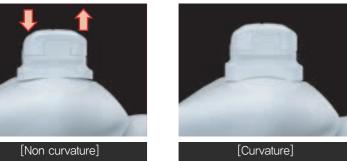
Mandibular Anterior Morphology Design

Rhombus-type base design tailored to the tooth shape Prevention of interference between adjacent teeth and securing of IBD (Inter Bracket Distance)



Passive Self-Ligating Ceramic Bracket





Global Citizen Curvature Big Data Applied

Global Citizen Big Data Calculation

Applying the average curvature value of the tooth occlusal

Precise Canine Curvature : Maximize the convenience of canine and premolar rotation adjustment



Comfortable Spherical Hook

Spherical Hook that minimizes the contact surface in the oral cavity Glass surface treatment to reduce foreign body sensation and pain



► Tie Groove Structure with Simulation Analysis

Enhancements for Ligation in Elastic

Mandibular Central Inclined Hook Structure

Applying a gradient that minimizes gingival interference Mandibular premolar Central Hook Positioning improves foreign body sensation, pain reduction and elastic ligation



Active Self-Ligating Ceramic Bracket



Passive Self-Ligating Ceramic Bracket

Open



After placing the opener tip between the body and the clip, press down to open the clip.

Close



Close the clip by sliding it with your fingertips.

Open



After placing the opener tip between the body and the door, open the door by turning it clockwise or press down.





Close the do or by sliding it with your fingertips.

Debonding





By fixing the debonding plier tip between the bracket wing and the base, lightly apply up and down force.

Debonding

