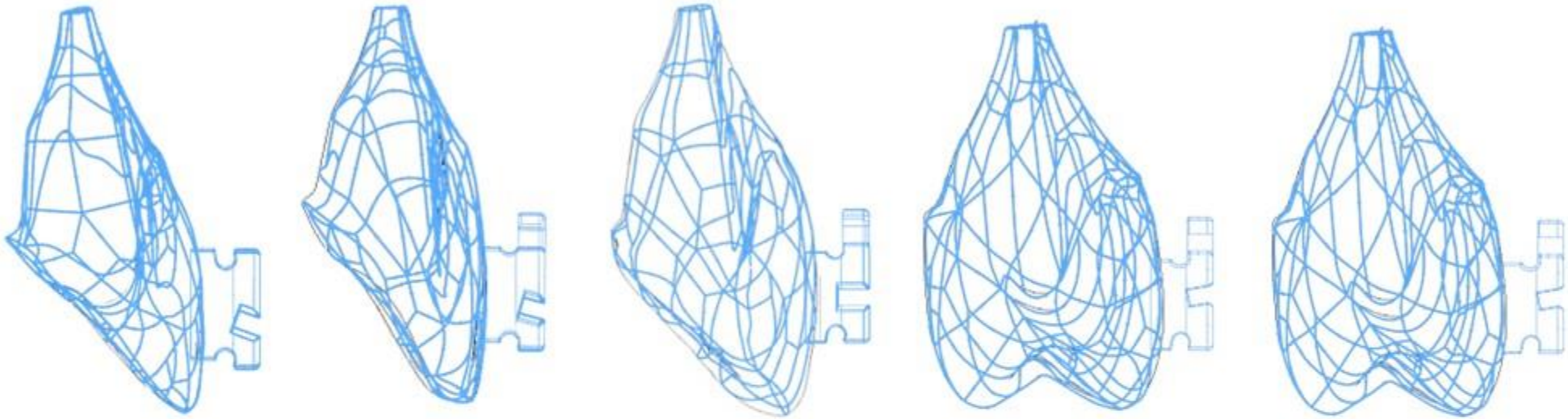
NEW

HT Co., Ltd

MISO A+ Ai

1. MISO A+ Ai

[AI 3D Modeling]



NEW

Ai Optimized Design Bracket, Ai A+

#New #SapphireBracket #Aesthetics #Durable #Ai Optimized

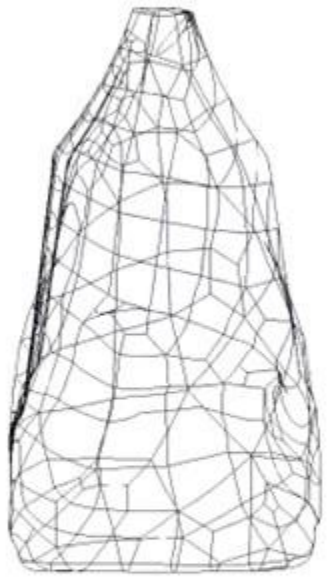
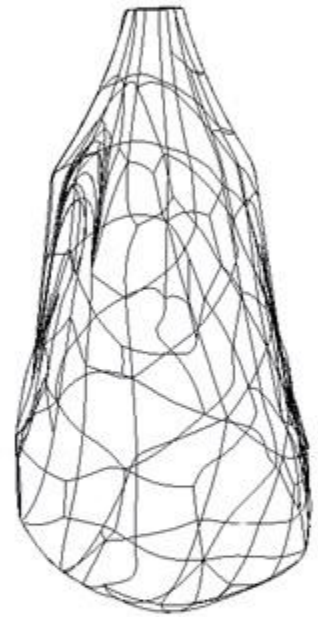
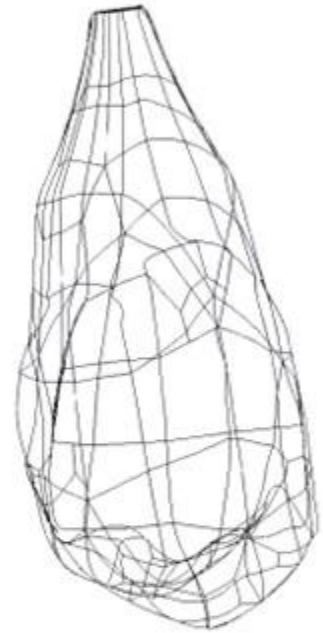
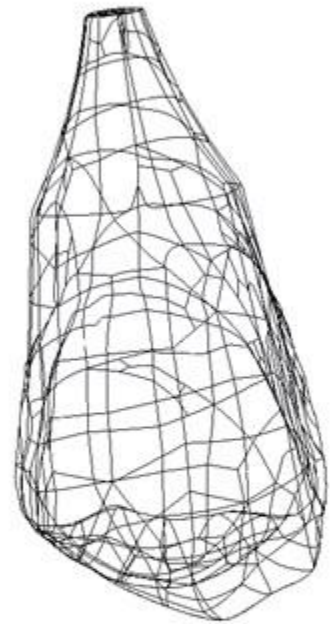
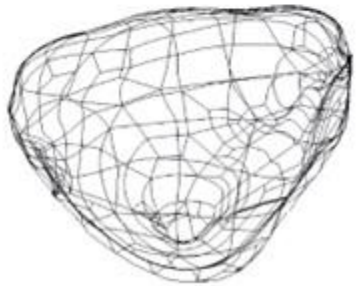
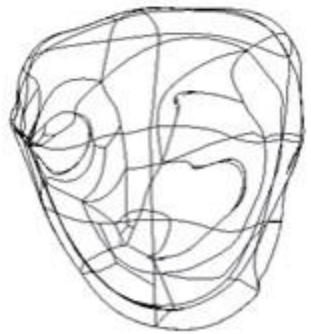
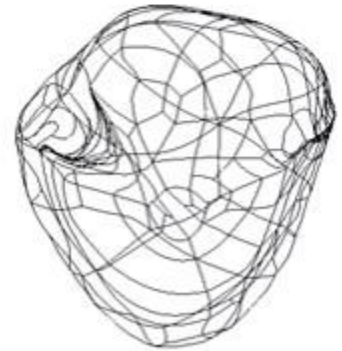
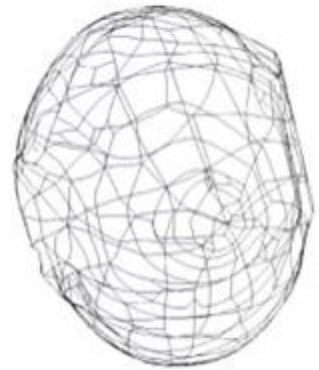
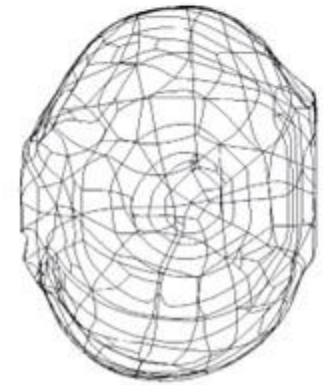
Miso A+ was designed using AI to maximize customer satisfaction when receiving orthodontic treatment.

Our effort was to provide a dependable and durable product that is stable, aesthetic and swift in treatment.

Through AI, we were able to provide a new prescription that maximizes patient comfort while reducing treatment time.

2. MISO A+ Ai

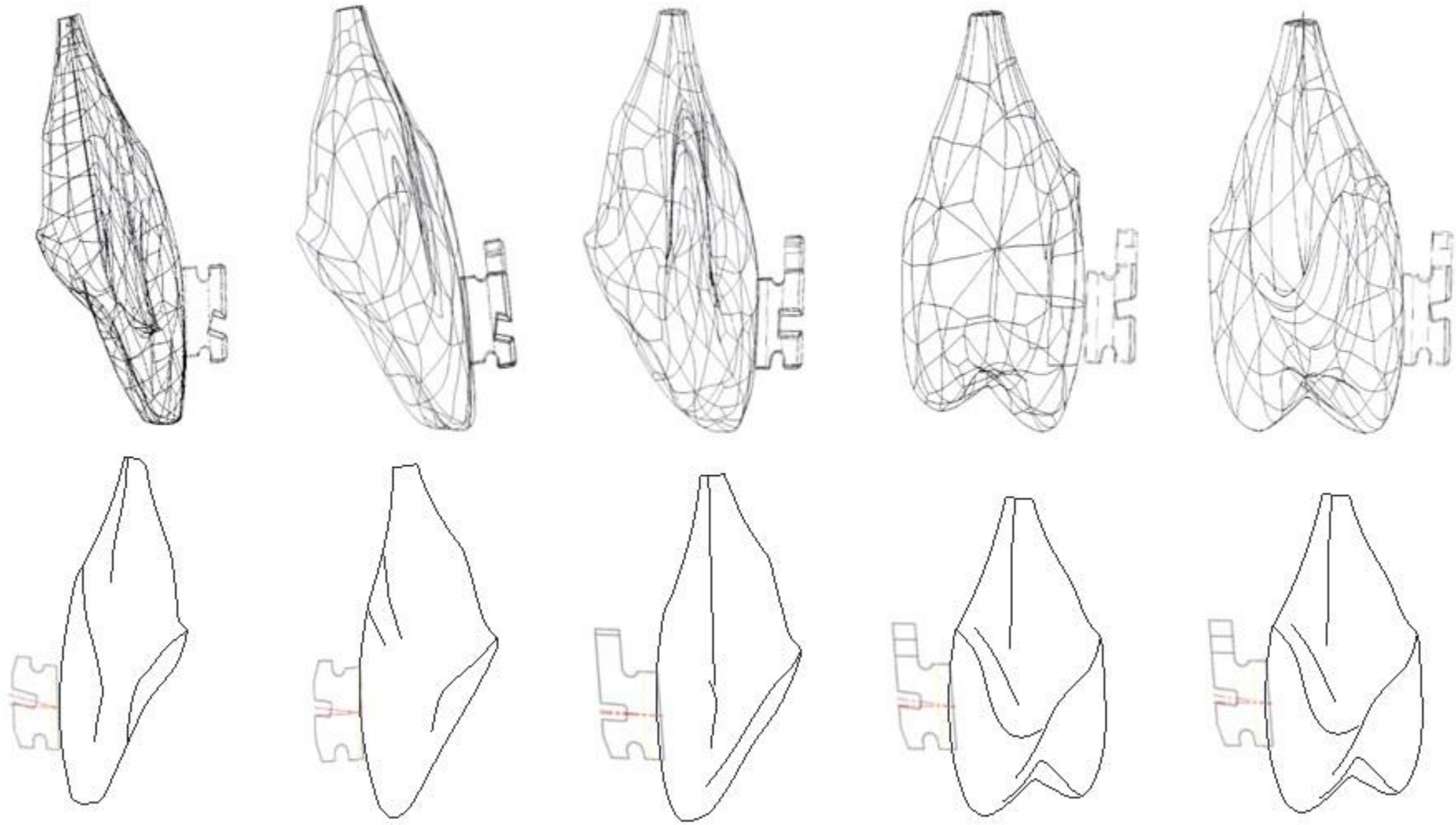
[Brackets 3D Modeling (Maxillary)]

Central	Lateral	Cuspid	1st Bicuspid	2nd Bicuspid
				
				

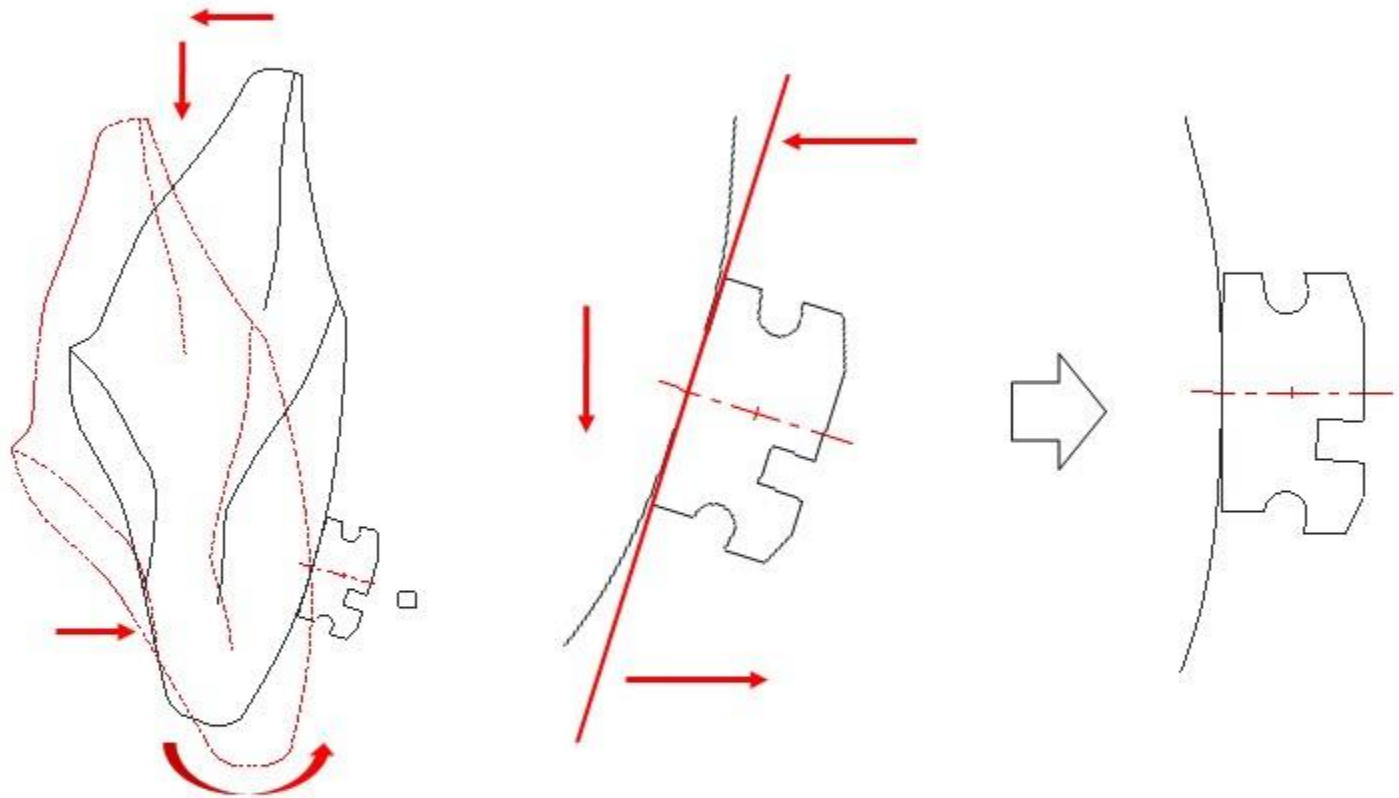
3. MISO A+ Ai

[Brackets 3D Modeling (Maxillary)]

Central	Lateral	Cuspid	1st Bicuspid	2nd Bicuspid



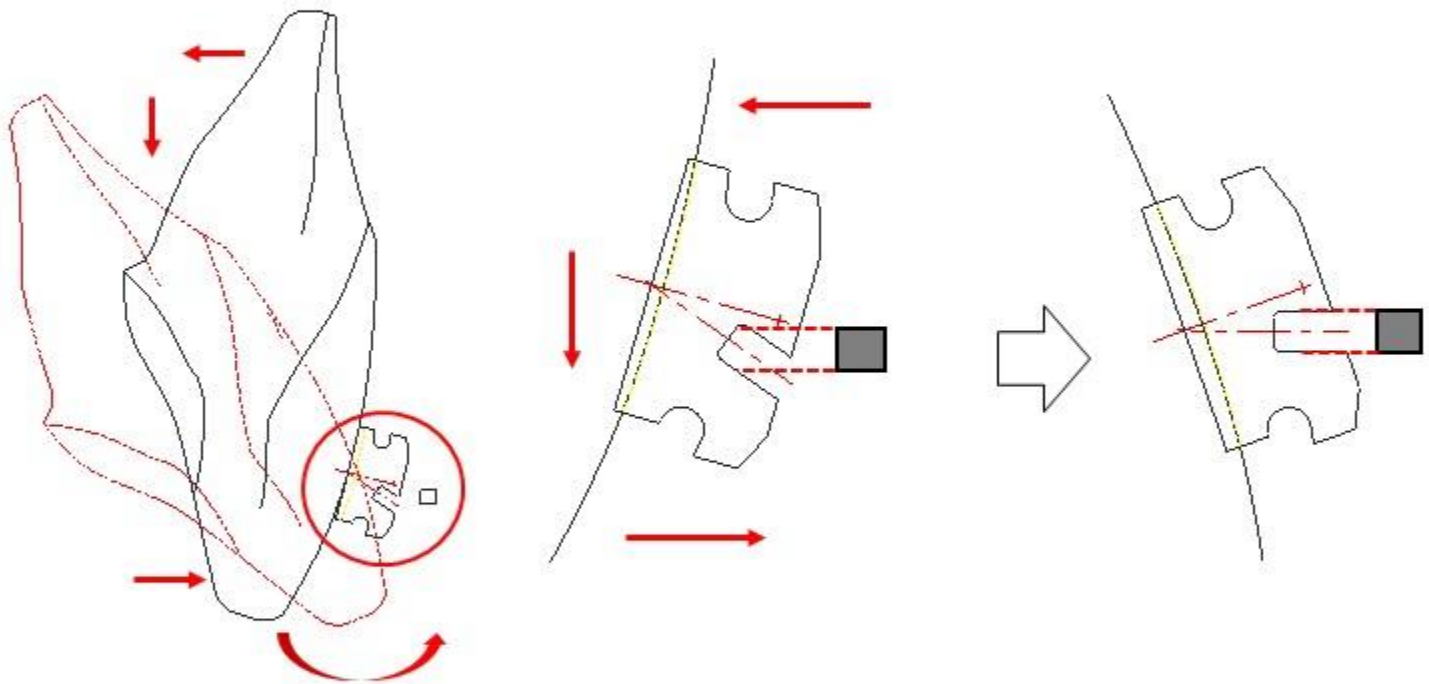
4. MISO A+ Ai _ Labial Torque 5°



Miso A+ provides paramount and effective treatment when using it in conjunction with Anchorplus Mini-Screw. Torque and Angulation were implemented with AI optimized New Prescription to shorten the treatment period and accurately control the direction of tooth movement.

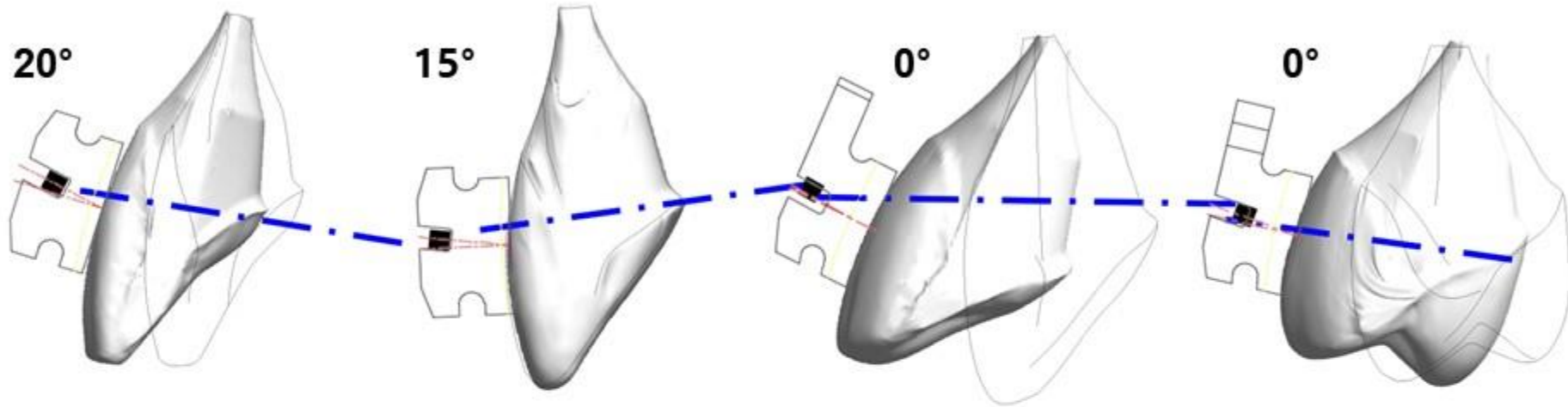
This combination achieves the best results in the fastest time during treatment.

5. MISO A+ Ai _ Labial Torque 5°

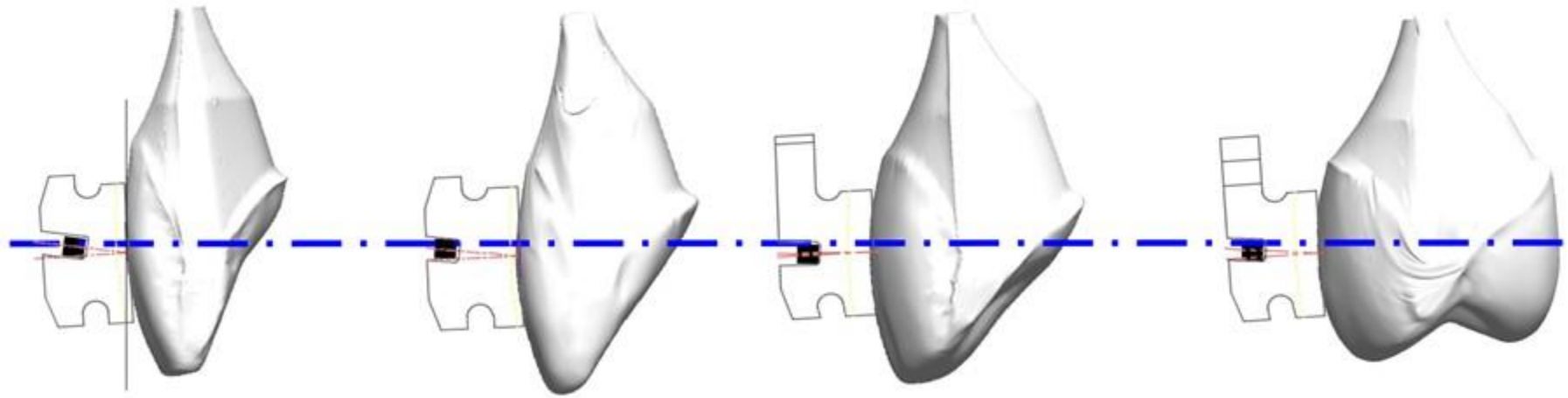


6. MISO A+ Ai _ Bracket Torque

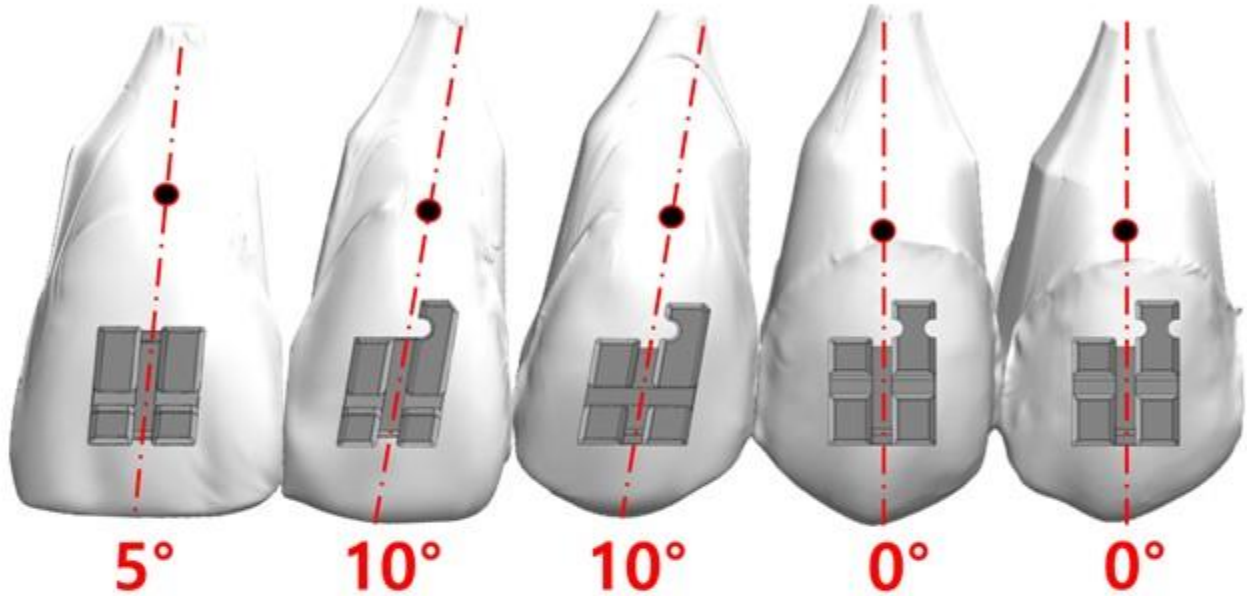
Before

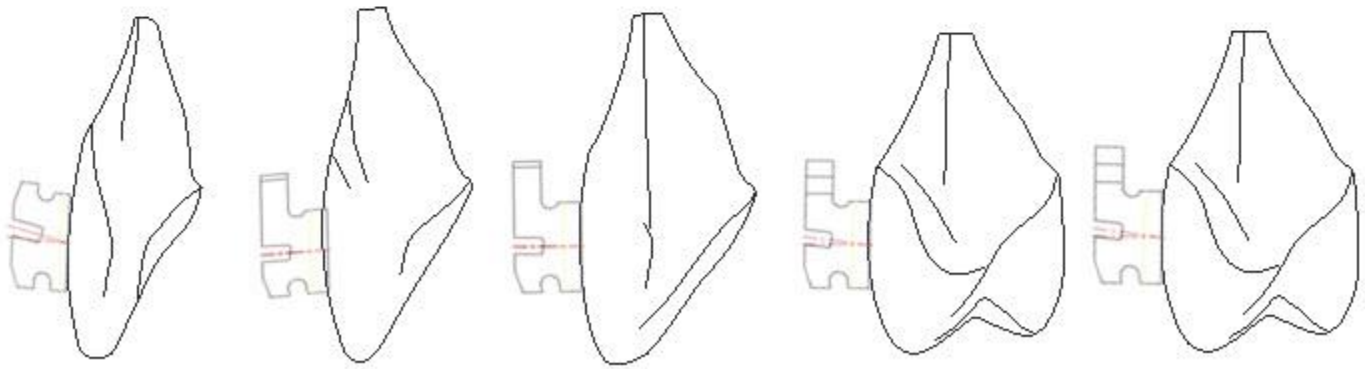


After



7. MISO A+ Ai _ Bracket Angulation



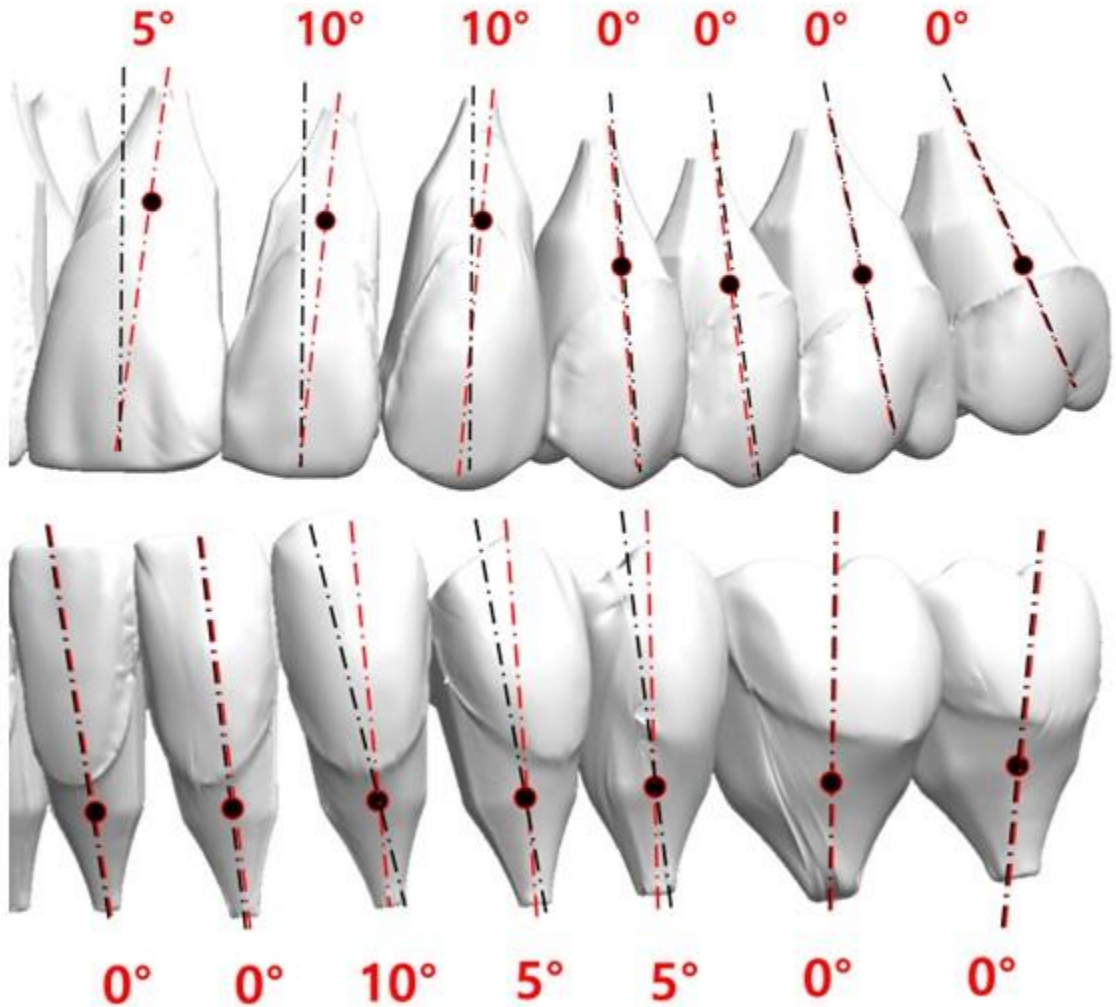


8. MISO A+ Ai _ Bracket Angulation

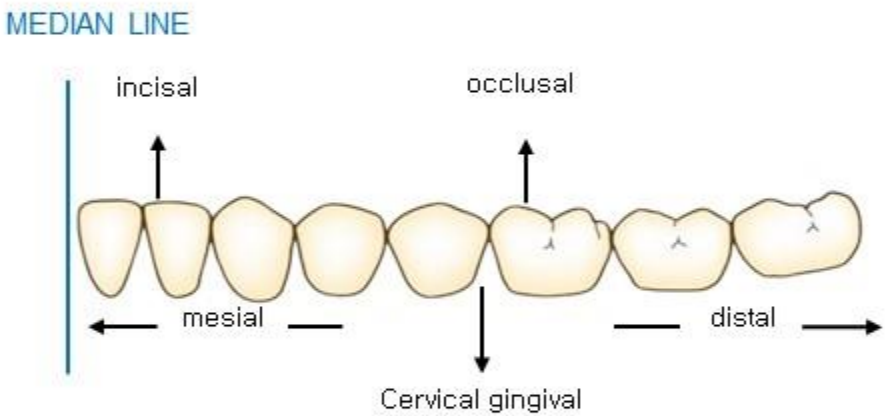
Design by automatically generating angle values for brackets through Ai-based 3D modeling

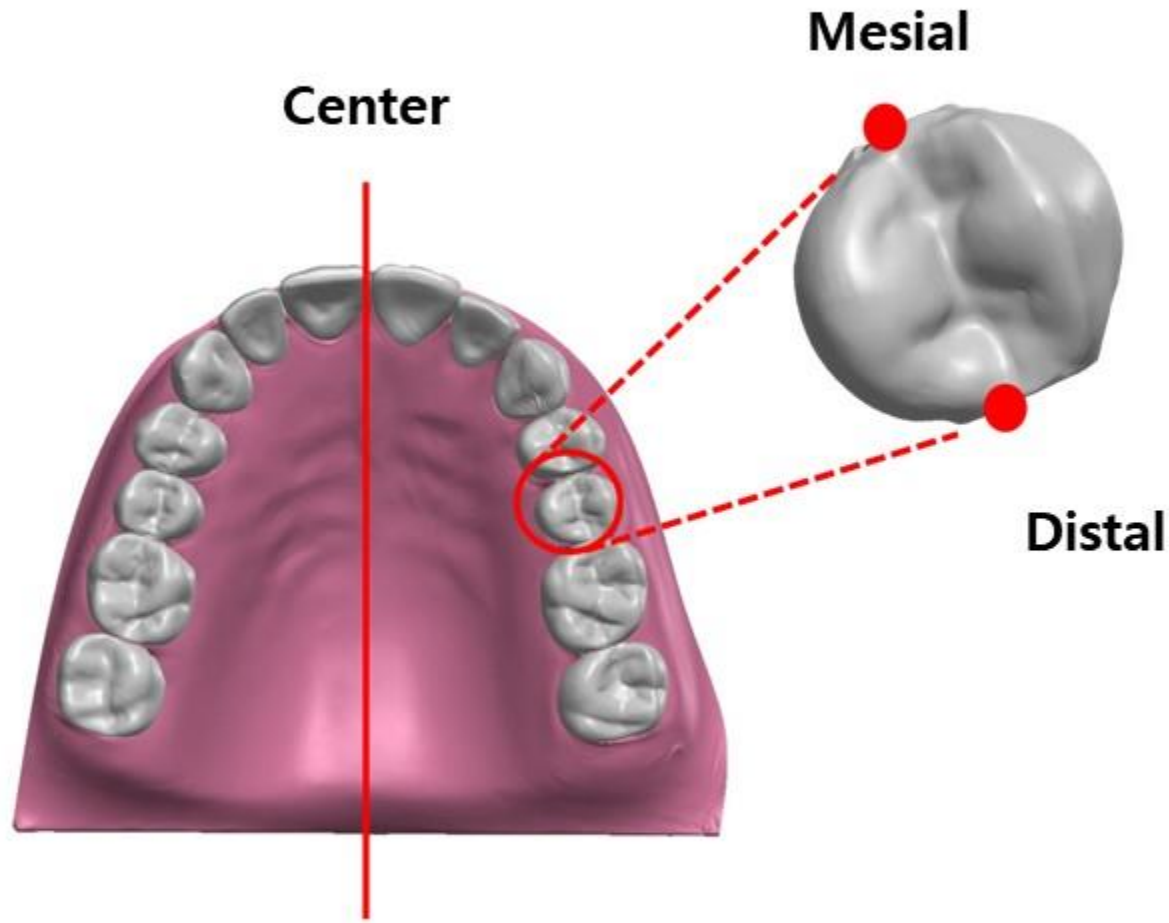
Maxillary

Mandibular



9. MISO A+ Ai _ Offset Angulation

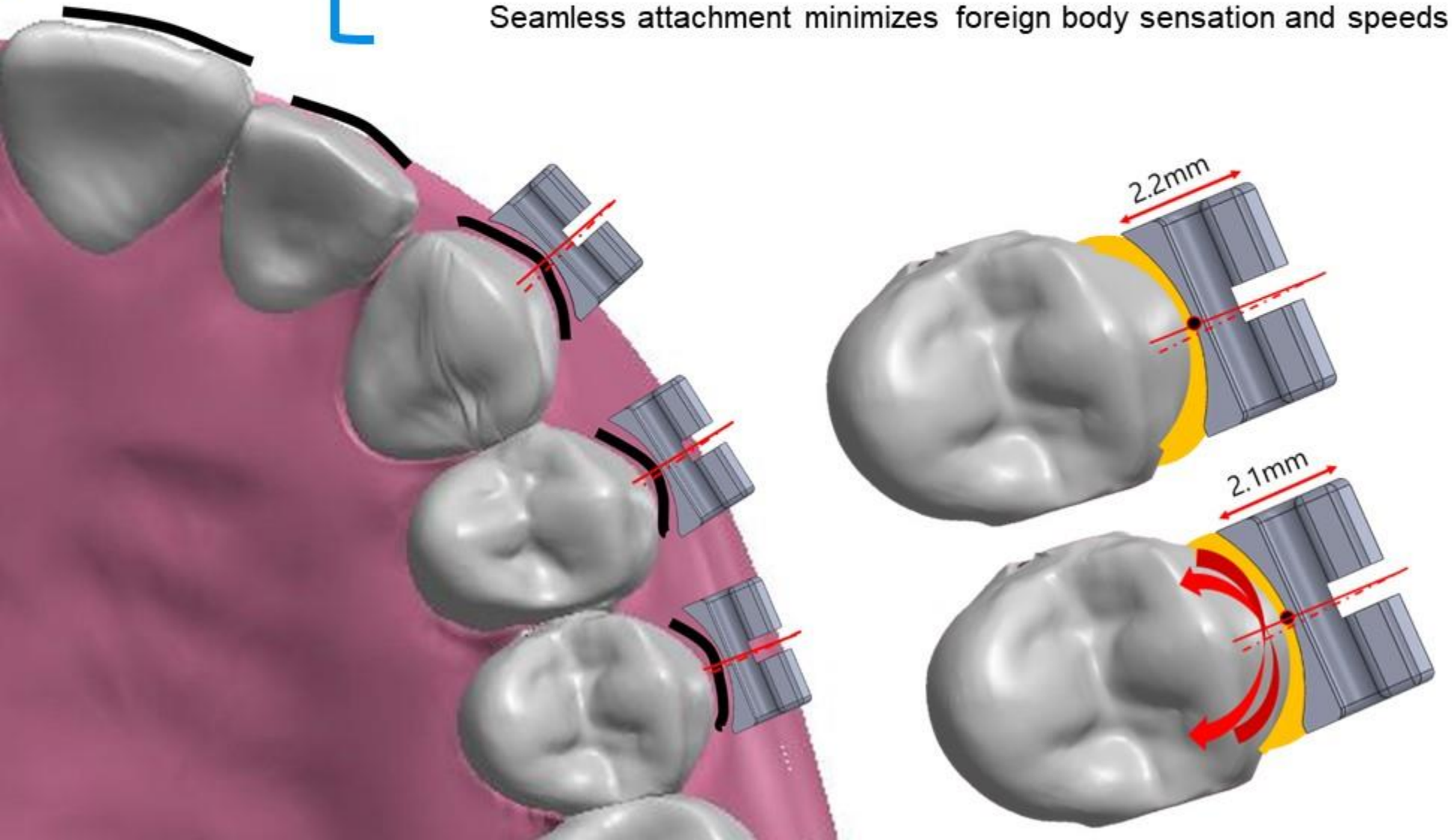




10. MISO A+ Ai _ Offset Angulation

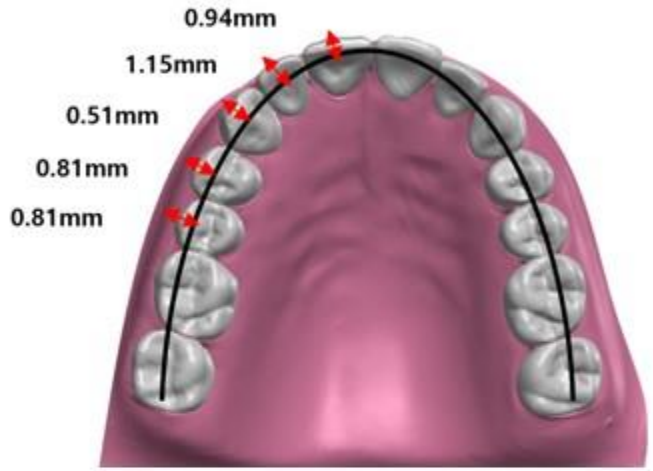
The Ai system builds a bracket base that conforms to the tooth surface and enhances adhesion.

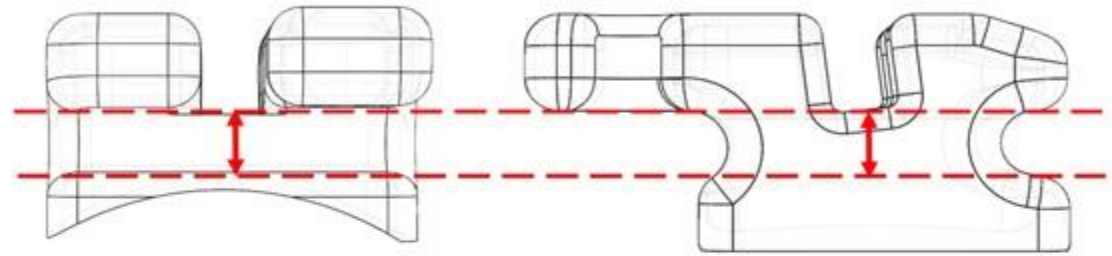
Seamless attachment minimizes foreign body sensation and speeds up treatment.



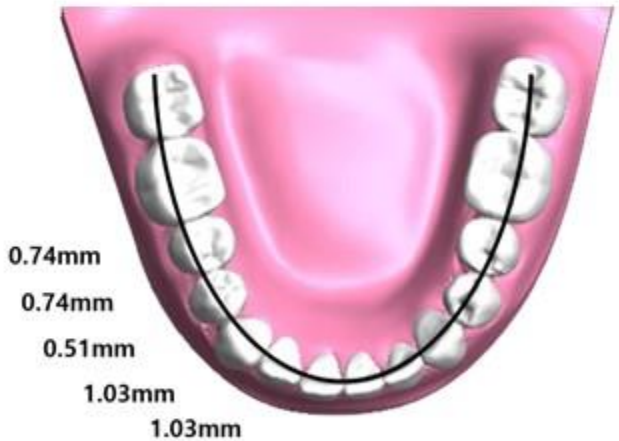
11. MISO A+ Ai _ In/Out Dimension

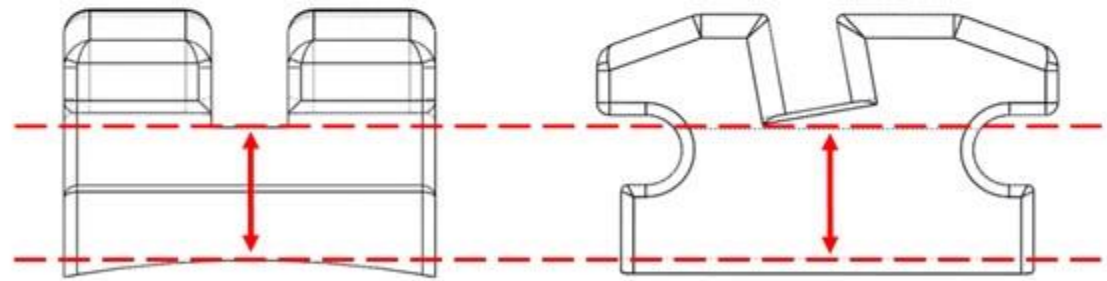
Maxillary





Mandibular

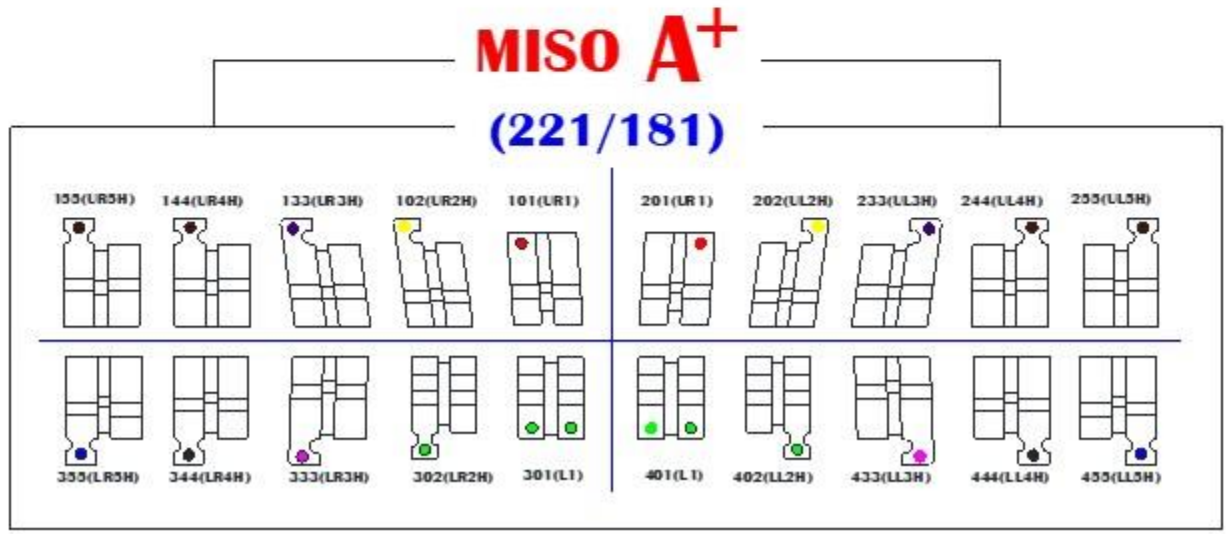




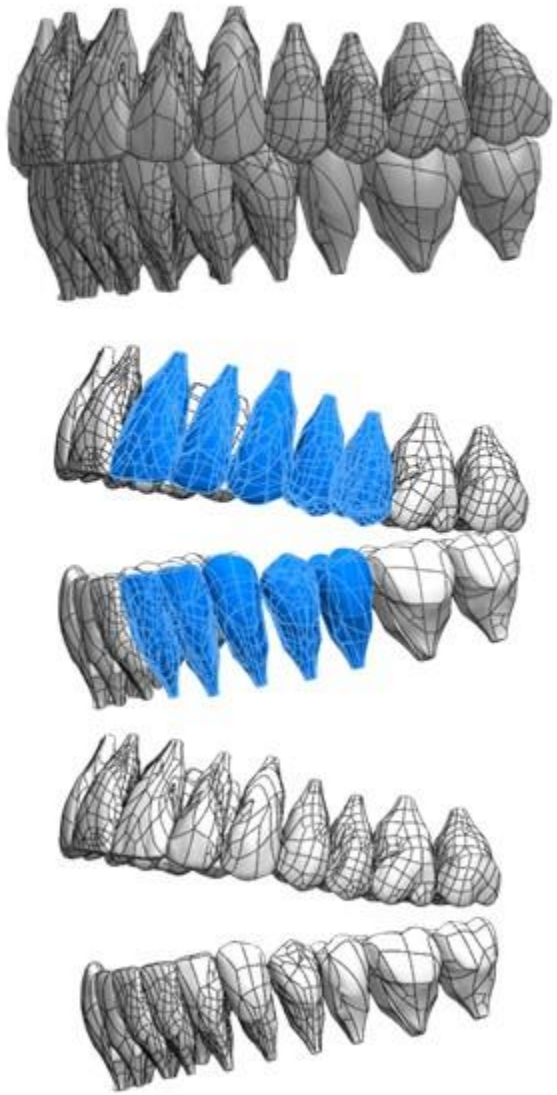
12. MISO A+ Ai _ Table

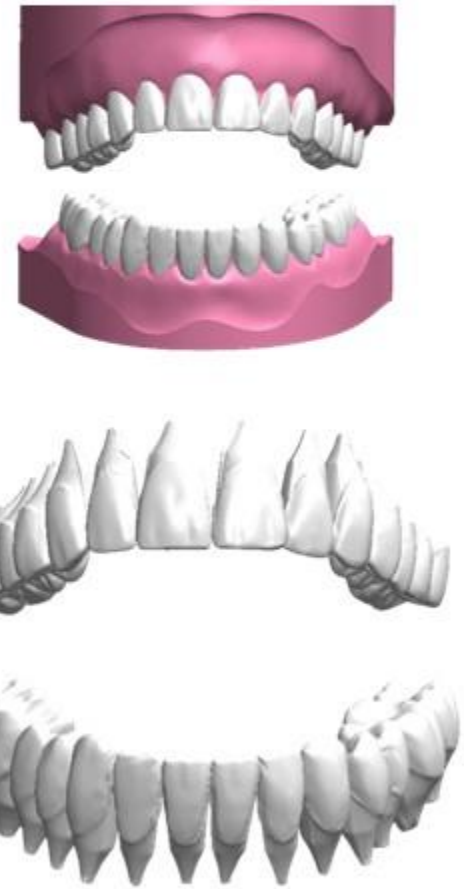
MISO A+ AI Optimized New Prescription					
Tooth		Prescription			
		Torque (°)	Angulation (°)	M/D Width(mm)	Hooks
Maxillary	Central	+20°	5°	3.30	-
	Lateral	+15°	10°	3.00	W/H
	Cuspid	0°	10°	3.40	W/H
	1st Bicuspid	-10°	0°	3.30	W/H
	2nd Bicuspid	-10°	0°	3.30	W/H
Mandibular	Central	+5°	0°	2.90	-
	Lateral	+5°	0°	2.90	W/H
	Cuspid	0°	10°	3.40	W/H
	1st Bicuspid	-10°	5°	3.30	W/H
	2nd Bicuspid	-15°	5°	3.30	W/H

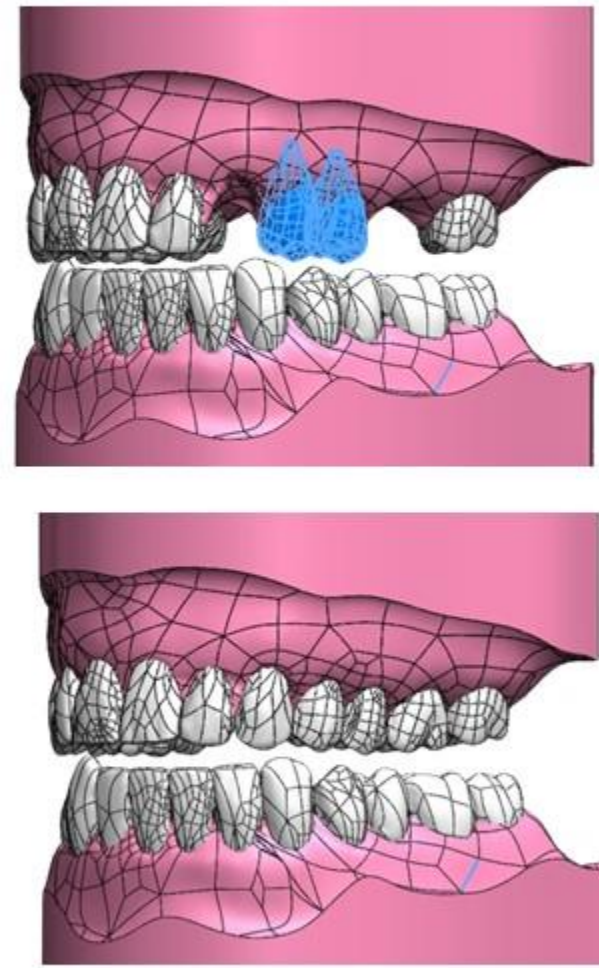
Specification Code	
Description	Code No.
Upper / Lower 3-3, hooks on 2, 3	333
Upper 5-5, hooks on 2, 3, 4, 5	515
Lower 5-5, hook on 2, 3	503
Lower 5-5, hooks on 2, 3, 4, 5	505
Upper / Lower 5-5, hooks on 2, 3	553
Upper / Lower 5-5, hooks on 2, 3, 4, 5	555
Upper / Lower 5-3, hooks on 2, 3	533
Upper / Lower 5-3, hooks on 2, 3, 4, 5	535
Upper / Lower 3-5, hooks on 2, 3	353
Upper / Lower 3-5, hooks on 2, 3, 4, 5	355



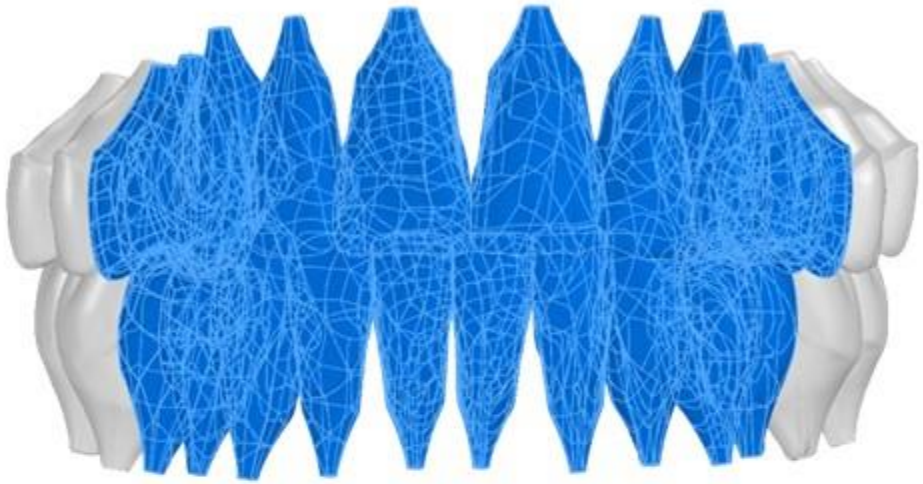
13. MISO A+ Ai _ 3D Modeling

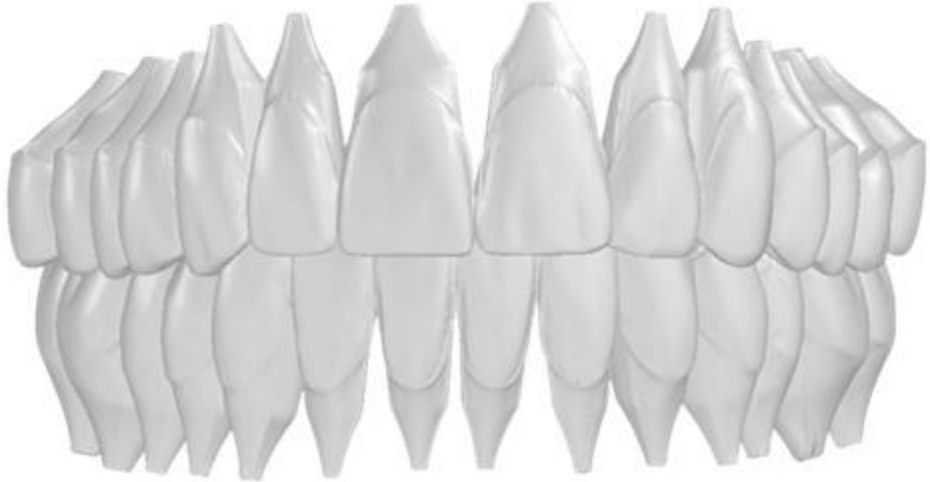


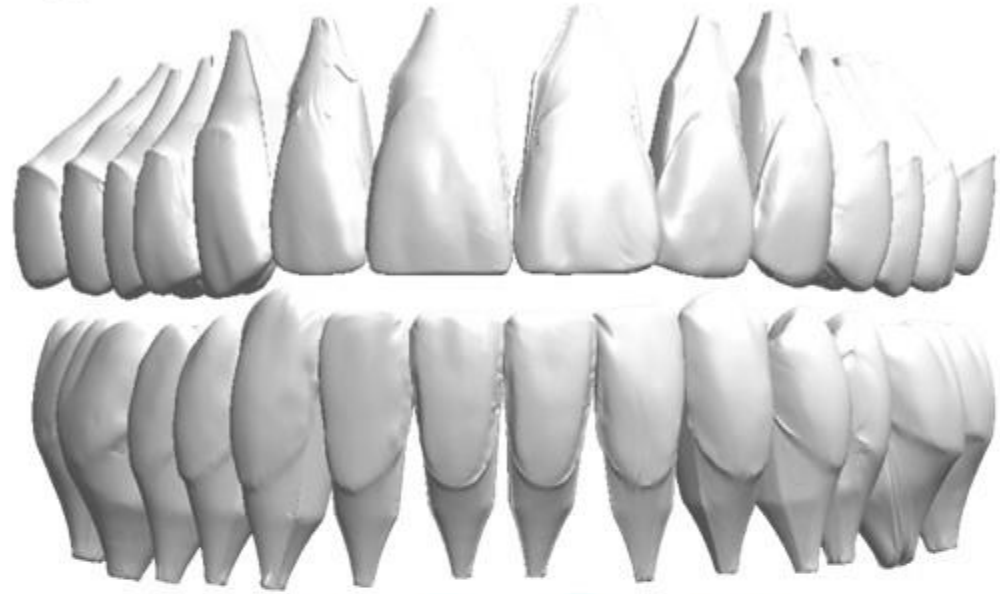


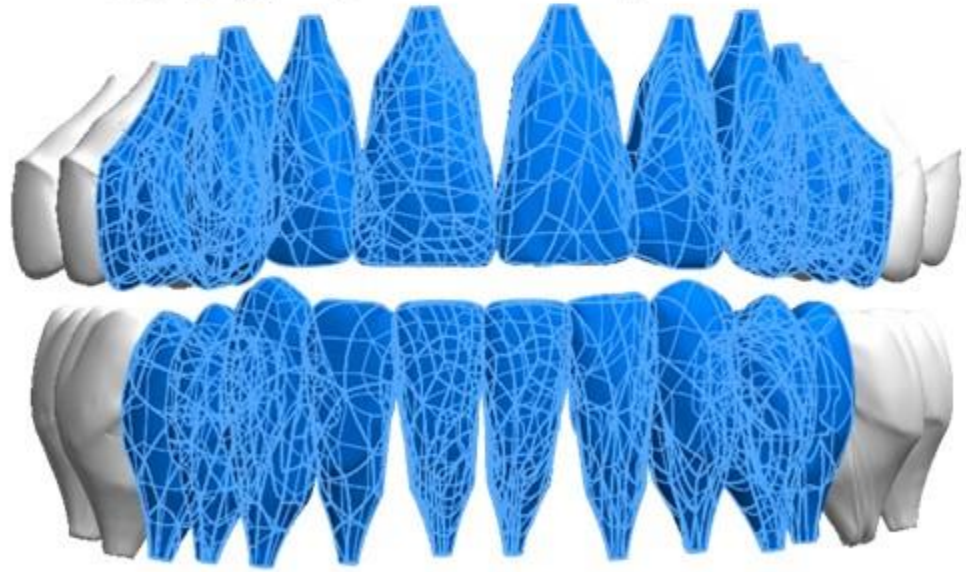


14. MISO A+ Ai _ 3D Modeling

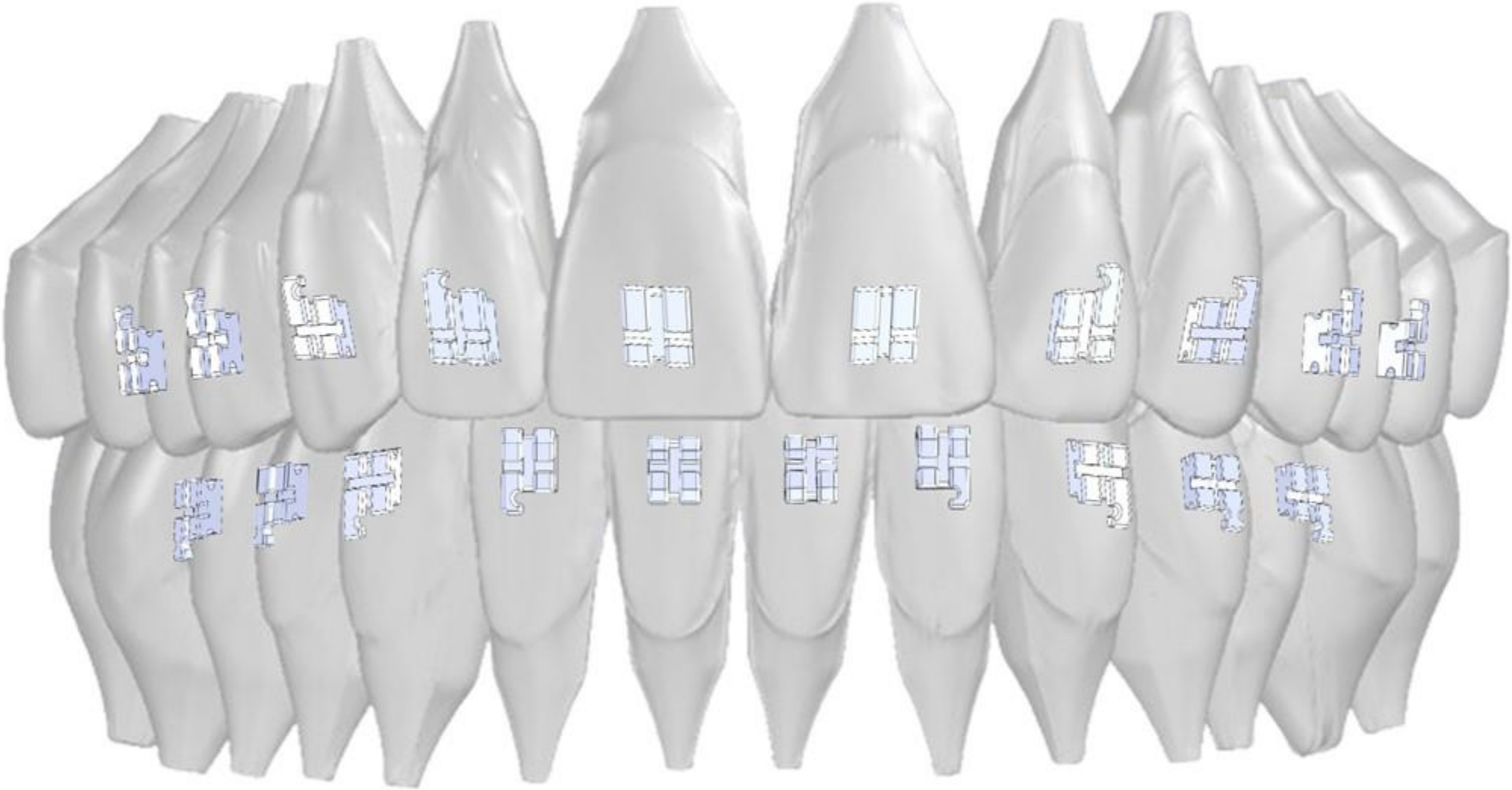




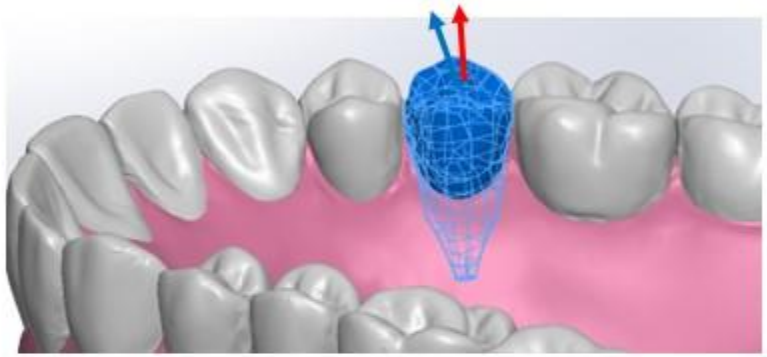


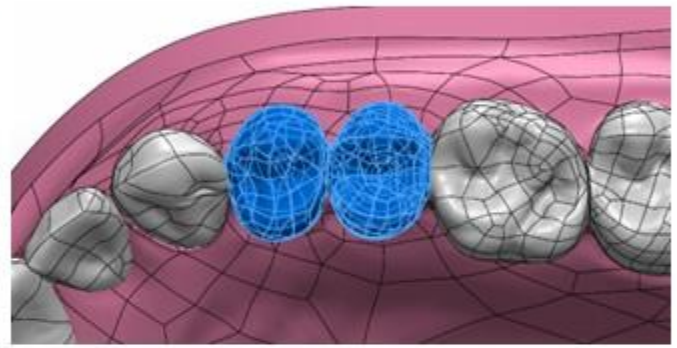


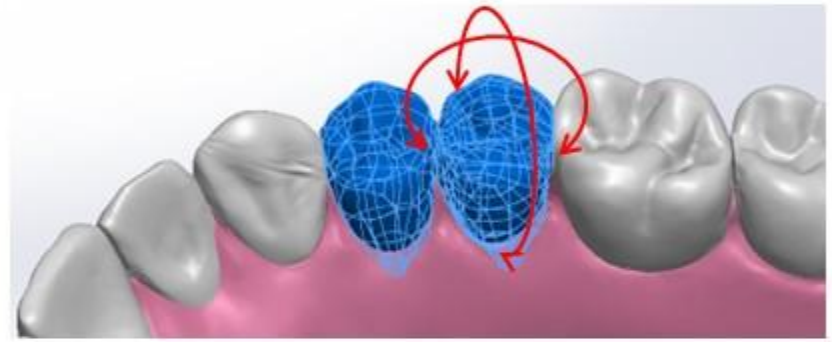
15. MISO A+ Ai _ 3D Modeling Simulation

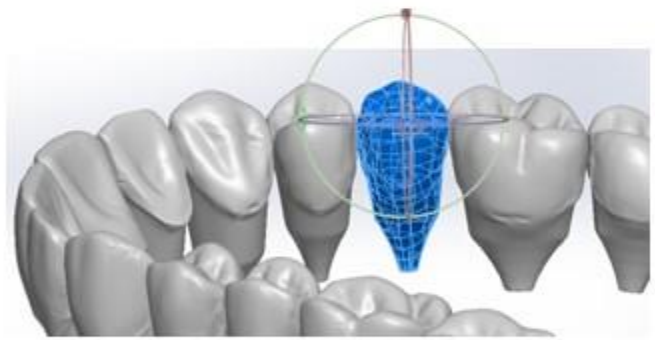


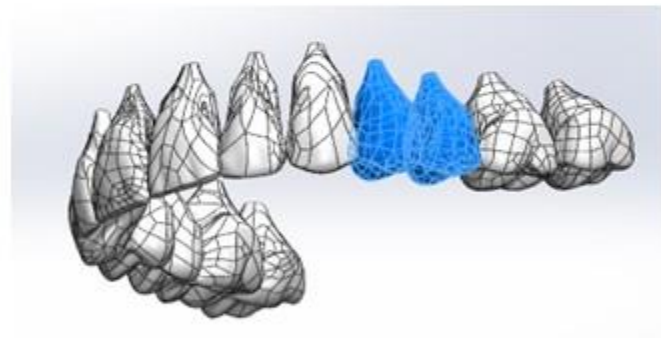
16. MISO A+ Ai _ 3D Modeling











AI optimized New Prescription provides most ideal data for controlling rotational momentum and torsional momentum during traction of teeth movement.

17. MISO A+ Ai _ FAQ

[How is “MISO A+ Bracket” different from other brackets?]

MISO brackets are not easily broken for the following reasons.

Firstly, the material used to make MISO A+ brackets is characterized by a hardness of Mohs 9.
However, due to the structural characteristics of ceramic brackets, any force greater than 2.8Kgf/m will cause them to crack.

Secondly, the MISO A+ product is able to withstand a force of 4Kgf/m by applying a specialized primary heat treatment to relieve processing stress and a secondary heat treatment to apply a surface coating.

18. MISO A+ Ai _ FAQ

[How is “MISO A+ Bracket” Compatible with “Anchorplus Mini-Screw”?]

Unlike other brackets, the MISO A+ Ai bracket has **hooks starting at number 2**.

In addition, the **hooks on brackets 4 and 5 are grooved in both directions**,

allowing the dentist to apply force in the desired direction.

This means that Mini-Screws can be used with more force than conventional brackets for faster healing

19. MISO A+ Ai _ FAQ [How did “MISO A+” get designed?]

MISO A+'s AI design technology requires the following four levels of condition values to be set.

1. **Input basic conditions**
   - Enter the data of a normal tooth to fix it. (normal bite)
   - Enter the condition of a hypothetical treatment subject (i.e., present the condition by quantifying a large number of malocclusion data).

2. **Input constant value**
   - Enter the basic information of Mini-Screw, fixed position, and elastic modulus of traction spring.
   - In addition, bracket torque value, angle value, bracket in and out data, wire elastic modulus, wire profile, etc. are presented. The information here focuses on the data of a normal occlusion.)

3. **Input variable conditions**
   - Set the number of cases to diversify the traction conditions.
   - Variables include Mini-Screw position, distance of the Mini-Screw from the traction tooth, inclination of the Mini-Screw from the traction tooth, and length of the O-ring.
   - This way, the magnitude of the force acting on the spring / O-ring is tested by varying the conditions under which the actual treatment is performed.

4. **Calculate the program application formula**
   - Check the resulting values of the repulsive force of the wire, the tension of the O-ring, and the limits.

Thank You