

4. Dental 3D Plasma Robot System

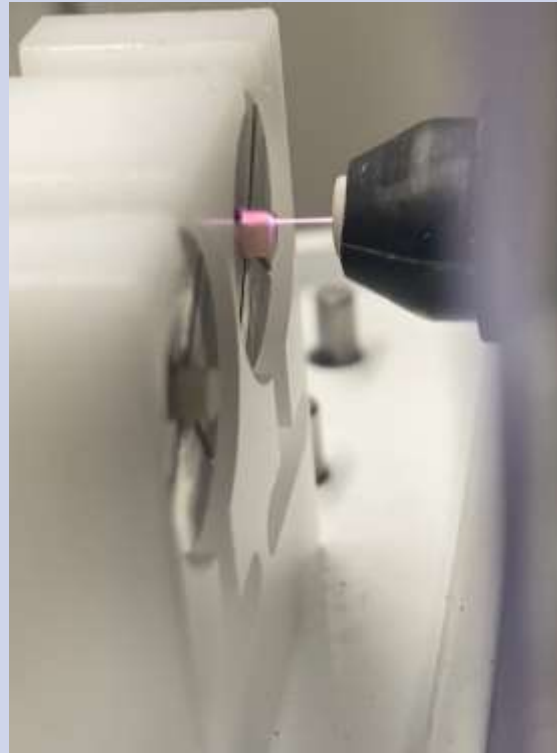
4.5 Zirconium and Ti cementation test (1/3)

지르코니아 플라즈마
처리동영상

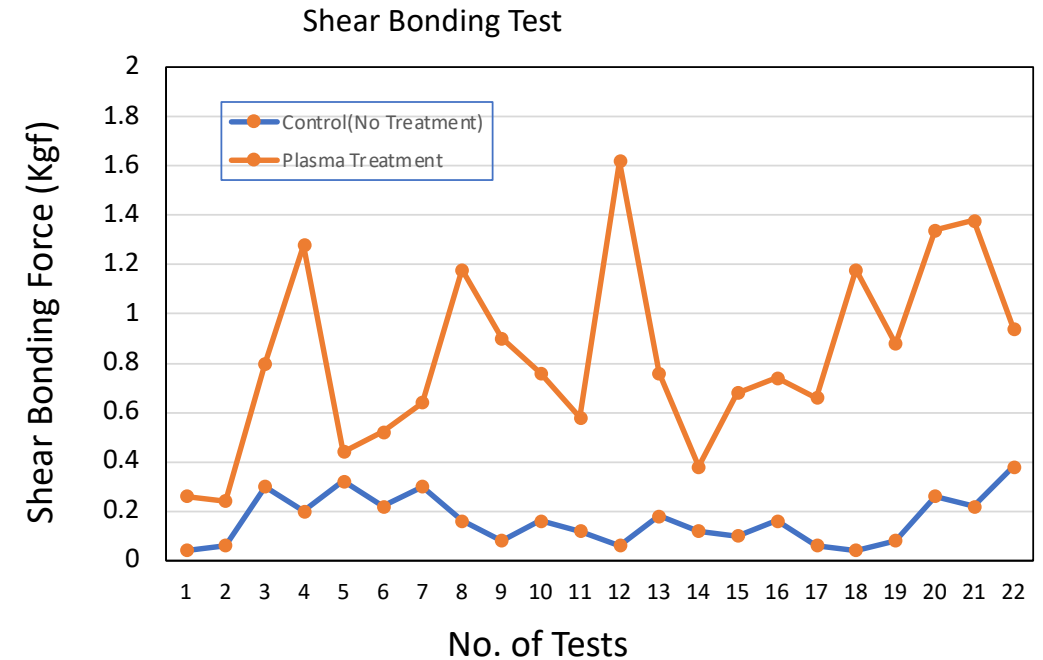
티타늄 플라즈마 처리동영상



VOD 4-5-1



VOD 4-5-2

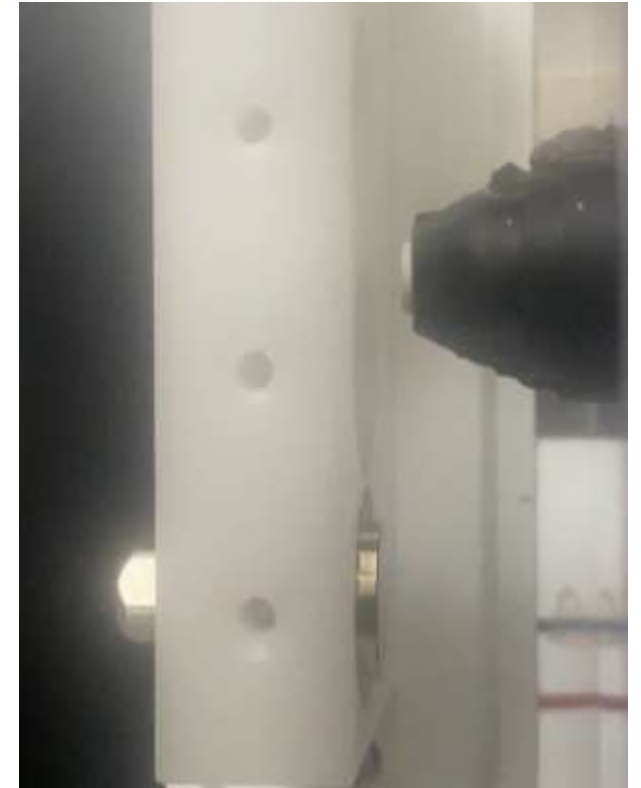
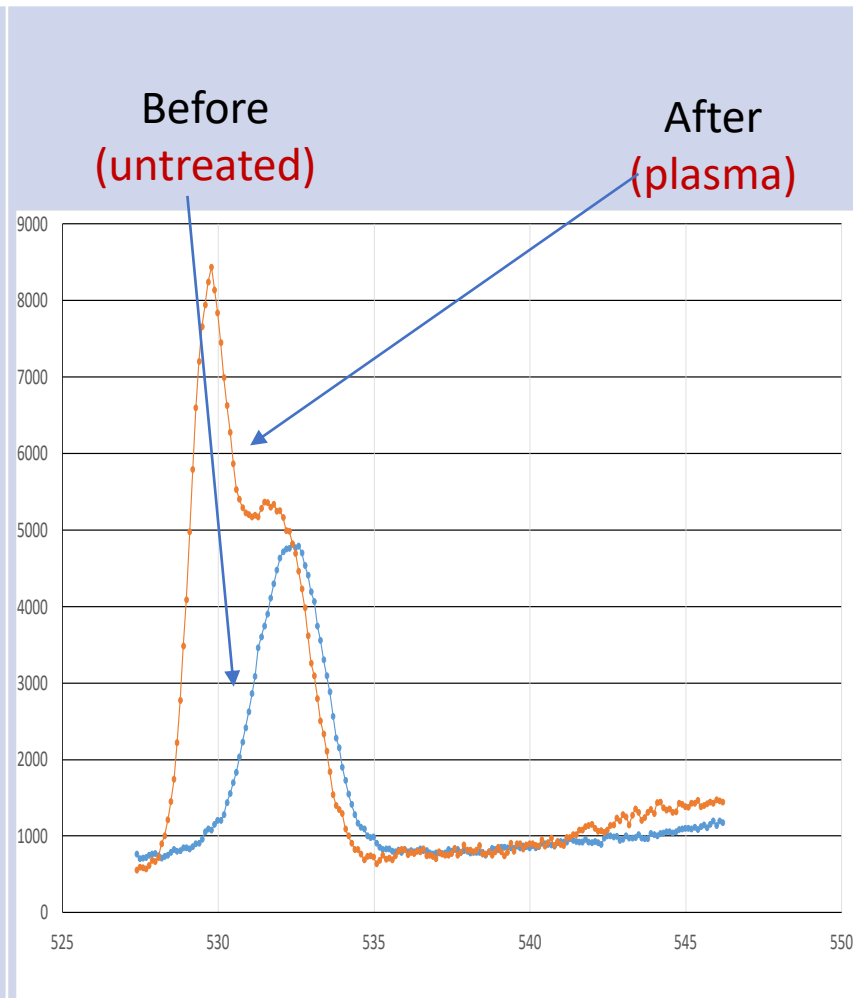
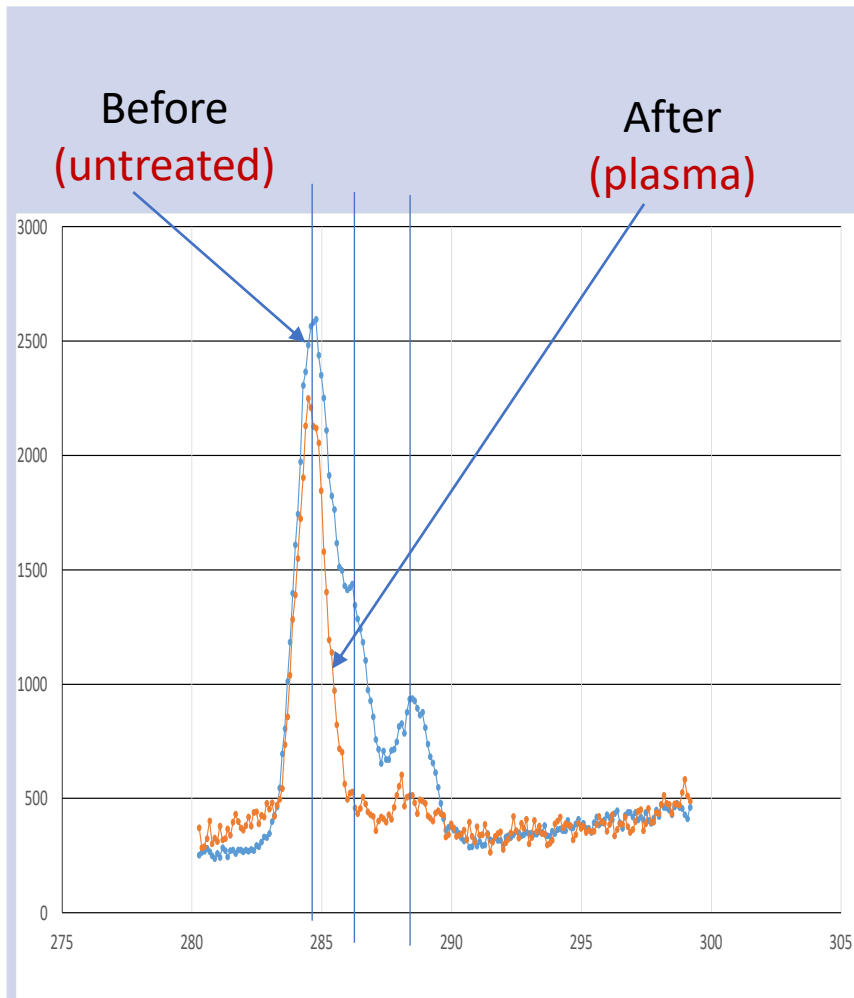


4. Dental 3D Plasma Robot System

4.5 Zirconium and Ti cementation test (2/3)

50% > (contamination decrease)

100% > (hydroxide increase)

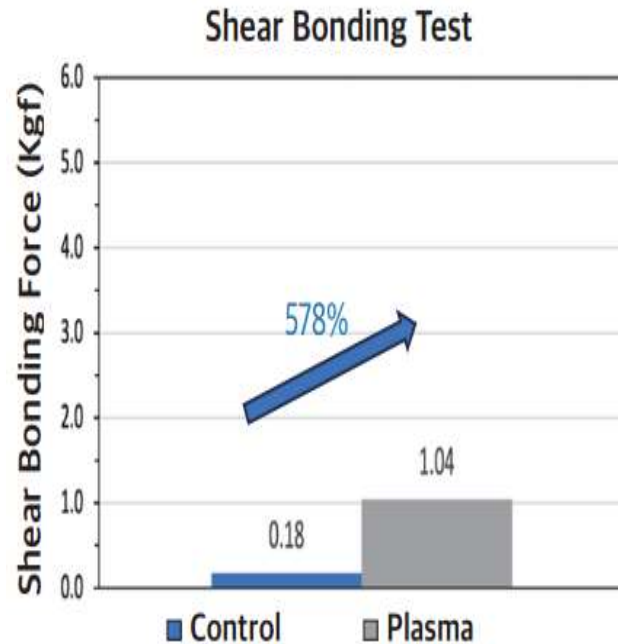


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4.5 Zirconium and Ti cementation test (2/3)

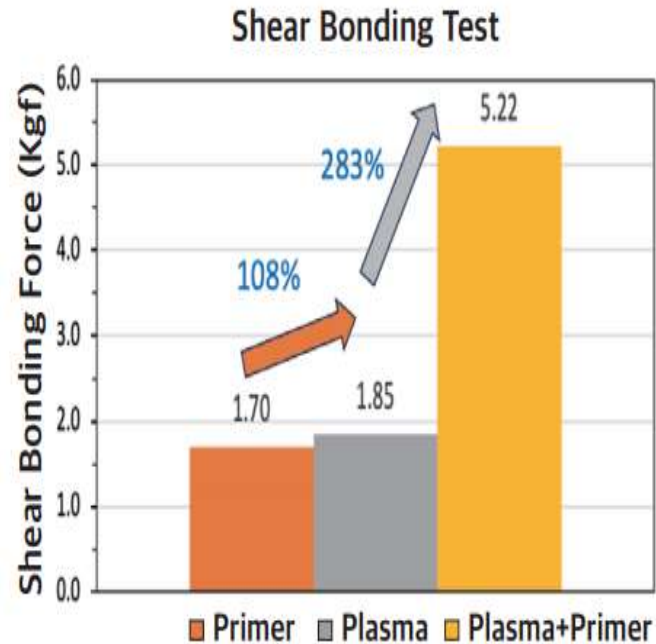
Plasma 단독 사용
578 % 접합력 증가

Result of Control(Untreated) and Plasma



Plasma와 Primer 동시 사용
추가 283% 접합력 증가

Result of Primer, Plasma and Plasma+Primer



SEM/EDX 분석결과 플라즈마 처리 이후 CEMENT
표면접합 성능 효과 우수함
95% 이상 Cohesive Failure Mode

	Zr 시료 SEM/EDX 분석결과	Ti 시료 SEM/EDX 분석결과
Control (Untreated)		
Plasma 처리		

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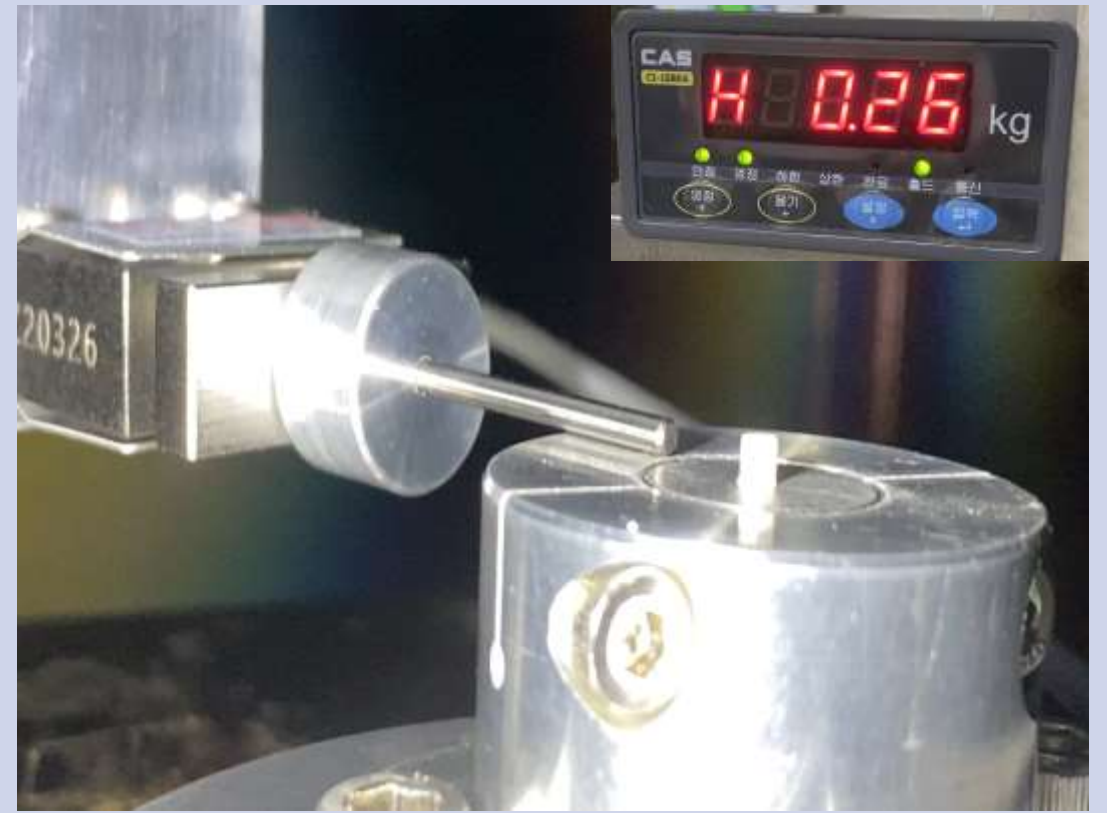
4.5 Zirconium and Ti cementation test (3/3)

플라즈마 처리된 시료의 접착후 Bonding Force Test



VOD 4-5-4

플라즈마 미처리된 시료의 접착후 Bonding Force Test



VOD 4-5-5