

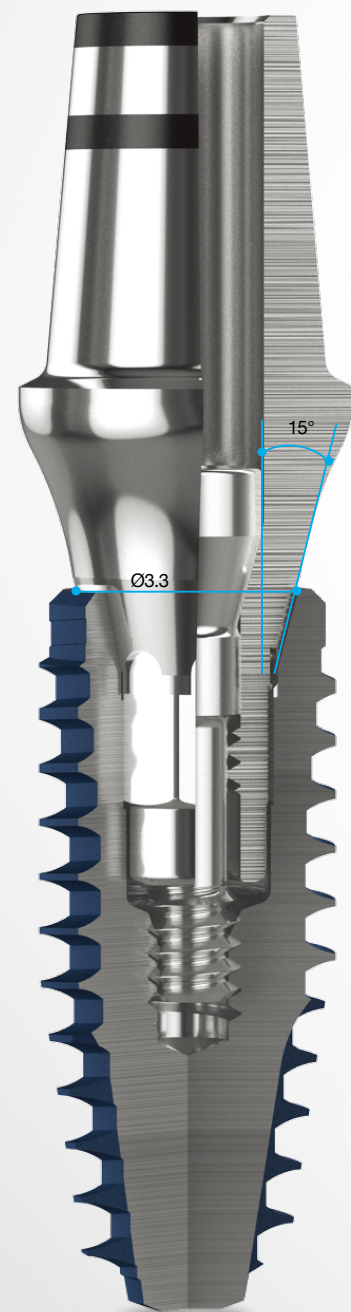
A cut above the rest: Masterpiece of Implant Technology

BLUEDIAMOND IMPLANT®

- 200% stronger than other implant systems
- Superior surface technology compared to S-L-A / shorter treatment period
- Improved long-term stability of marginal bone & esthetics

Fracture Stress-Free due to increased strength

Place desired fixture size with minimal surgery, even with limited alveolar bone width & absence of bone graft



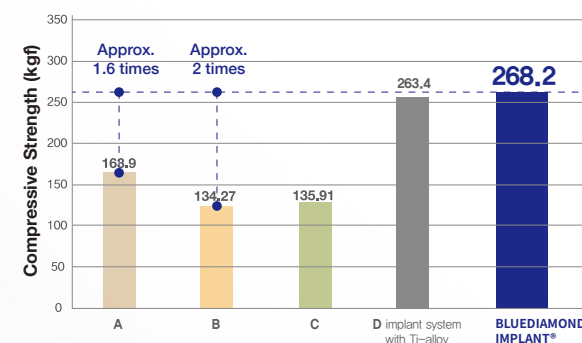
Minimize GBR & place ø4 fixtures for posterior teeth!

- Proven stability of 30° connection & stronger than ti-alloy
- ø4.1 is twice as strong as ø4.0
- Suitable for elderly patients

Use ø3.7 for premolar without GBR instead of ø4.0 or ø3.5

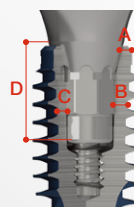
- Use ø3.3 instead of ø4.0
- Use ø3.3 for mandibular anterior & maxillary lateral incisors
- ø3.7 has thicker wall & larger contact area than ø4.0

►200% stronger based on scientific design



Mechanical design using pure Ti is stronger than Ti-alloy

►Thicker wall! Larger contact area!



	Existing System		BLUEDIAMOND IMPLANT		
	Ø3.5	Ø4.0	Ø3.3	Ø3.7	Ø4.1
A	0.25	0.23	0.26	0.46	0.38
B	0.34	0.36	0.35	0.55	0.43
C	0.46	0.52	0.43	0.63	0.54
D	2.67	2.57	2.85	2.85	4.35



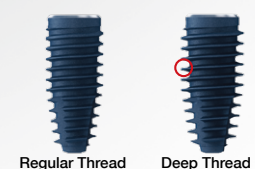
Fixture Selection Guide * Higher success rate guaranteed when using appropriate fixture diameter & thread for tooth size, bone thickness, & bone density



- Use ø3.7 without GBR for narrow ridge premolar (large diameter is recommended for wide ridge)
- For elderly patients with narrow ridges, use ø4.1 for posterior teeth (large diameter is recommended for wide ridges)
- Use ø3.0 Advanced Intermezzo when mandibular anterior interdental ridge is narrow

Excellent initial stability in any bone condition!

During initial drilling, if bone quality is poor, place deep-thread fixture



Different thread depths with same core
ex) ø4.1 Regular vs. Deep Thread Deep thread is 0.2mm longer (on each side) with same core: ø0.4 difference with just thread depth! Better initial stability!

	Fixture Diameter							
	Ø3.3	Ø3.7	Ø4.1	Ø4.4	Ø4.8	Ø5.3	Ø5.8	Ø6.3
Regular Thread								
Thread Depth	0.4	0.4	0.45	0.45	0.4	0.45		
Deep Thread								
Thread Depth	0.6	0.6	0.65	0.6	0.65	0.65	0.9	1.15

Coming soon!

* Immediate Placement for the posterior teeth

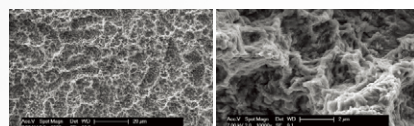
Superior surface technology – XPEED

MegaGen's unique technology deposits Ca^{2+} ions on the implant surface, following S-L-A surface treatment of pure medical Grade 4 titanium. These Ca^{2+} ions then create CaTiO_3 nanostructures on the implant surface that activate osteoblasts in living bone cells.

- Applied same surface treatment of AnyRidge which has awarded Clean Implant Trusted Quality Award for 5 consecutive years



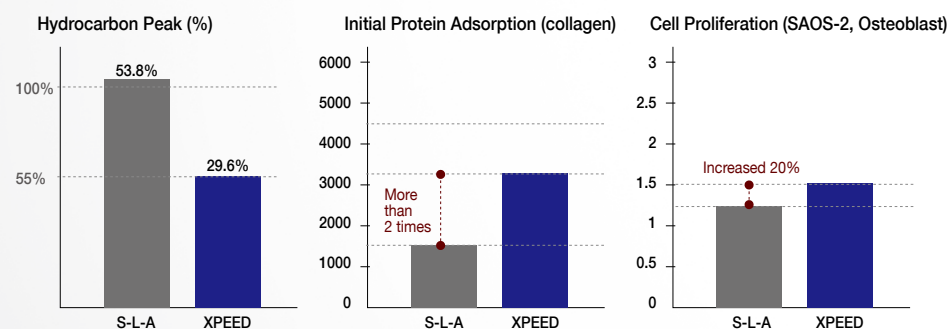
- Proven long-term surface safety & bone growth with unique **BLUE** surface



- 100% acid-free surface: no acid residue after surface treatment
- Even & ideal roughness value (R_a 1.8-2.5 μm)
- Even R_a surface roughness ensures better bone growth

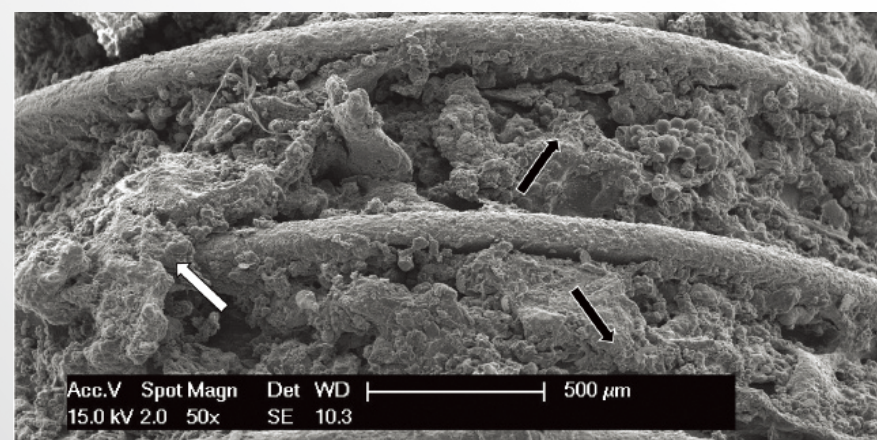
[Clean Implant Foundation] is a non-profit foundation located in Germany. Clean Implant Foundation evaluates numerous implants around the world & only very few are certified.

- XPEED surface technology superior compared to S-L-A



- >50% reduction of hydrocarbons that interfere with osteosynthesis
- 2 times better adsorption of essential proteins for initial osseointegration
- >20% improved osteoblast proliferation

- Faster bone formation proven by Human Clinical Study



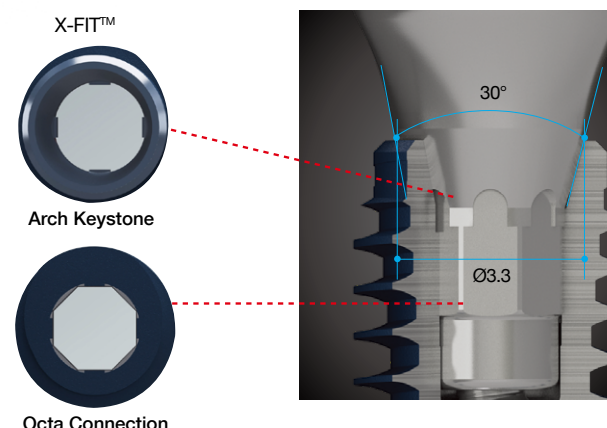
Empty spaces between threads are completely filled with growing bone tissue: In the early osteosynthesis process, new bone was found to cover the entire fixture, and on the left, you can see a small bone mass on the metal ridge. *Materials (Basel). 2017 Dec; 10(12): 1438*

Feel the X-Fit moment! No more prosthetic misconnections! Save chair time with prosthetic design that minimizes screw loosening

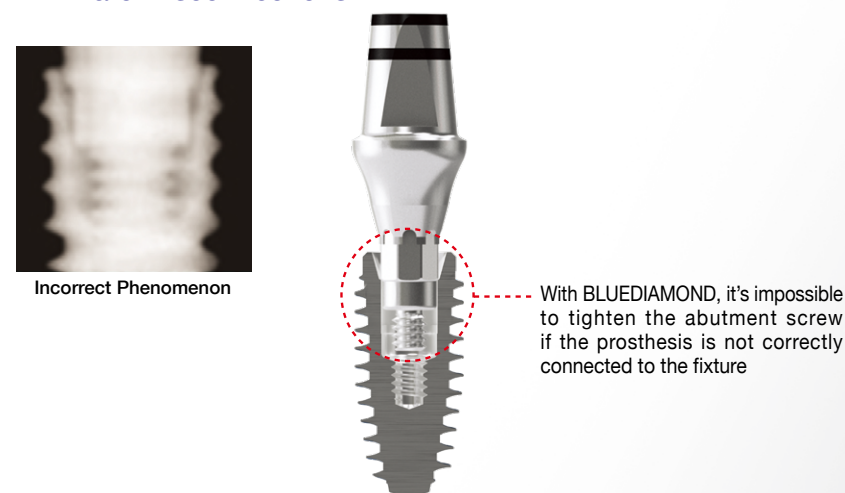
- X-FIT™!

First, with 30° internal conical arch-type keystone connection!

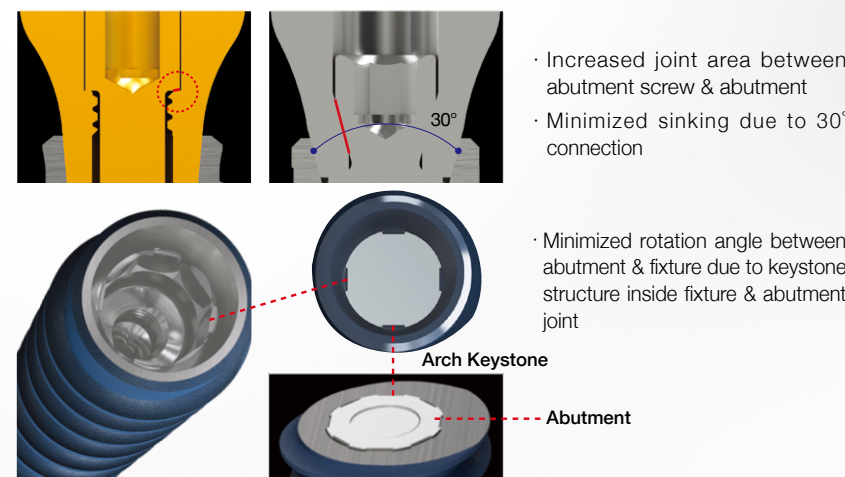
Second, with Octa! Double fastened connection ensures more accurate & complete connection.



- Eliminate misconnections!



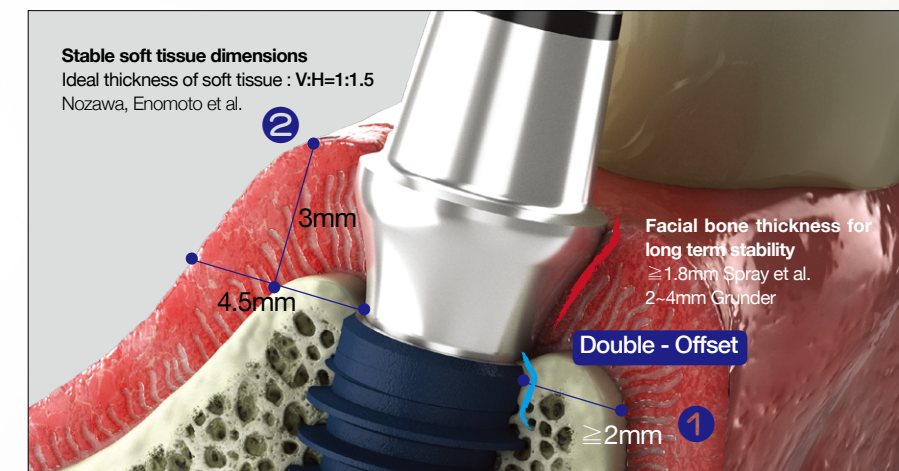
- Minimized Screw Loosening



Minimized Bone/Gingival Recession around implant

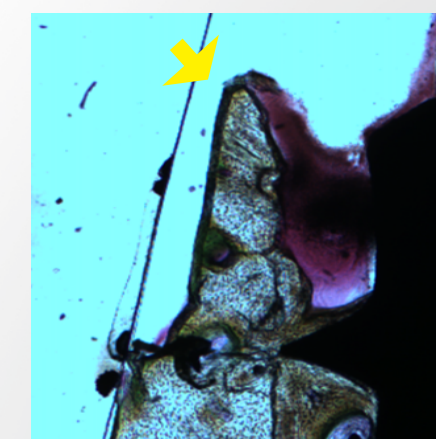
Reduced cortical bone stress allows long-term stability of marginal bone & esthetics

- Biology-adhering design for long-term stability



- 1 Minimized marginal bone resorption: thread-less design below platform.

Maintains ideal facial bone thickness of >2mm that is biologically required (preserves more cortical bone)



- A Human Biopsy (2.5 yrs post-OP)
Sharp increase of alveolar crest (yellow arrow) with osseointegration of implant & minimal regression of peri-implant marginal gingival

- 2 Ideal soft-tissue dimensions for beautiful gingival line

Designed to maintain ideal biologically-required peri-implant tissue dimensions of 1:1.5



Courtesy of Dr. Edison Shimaj