

Laser-Lok[®] microchannels

better science, better implants

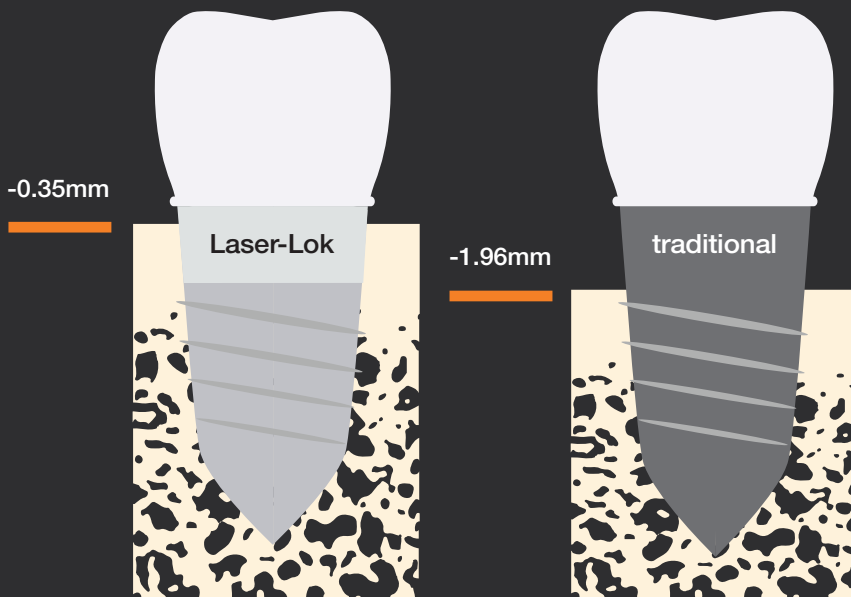
key clinical
benefits

100%

success rate

predictable esthetic results

Laser-Lok has demonstrated 100% success rates over 3 years in the anterior esthetic zone¹, the most challenging implant area.



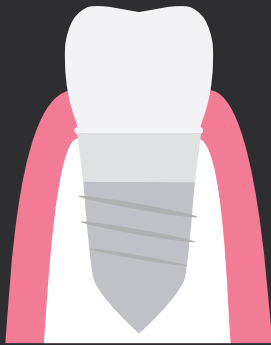
maintain crestal bone

The Laser-Lok surface has proven its ability to reduce crestal bone loss by as much as 70% versus leading competitors.² Over 3 years, crestal bone loss can be reduced to as little as 0.35mm.¹

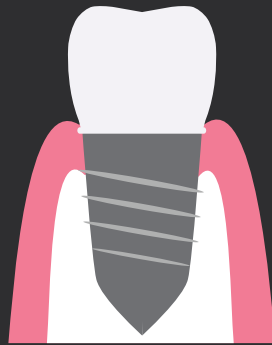
97.2%

superior immediate loading results

Immediately loading implants requires predictability. Laser-Lok has demonstrated a success rate of 97.2% on average. Studies of immediate protocols have shown traditional surfaces experienced 61% more bone loss compared to Laser-Lok.³ Laser-Lok has also demonstrated higher bone to implant contact (BIC) compared to traditional surfaces⁴, resulting in 51% BIC in only 3 weeks.⁵



Laser-Lok

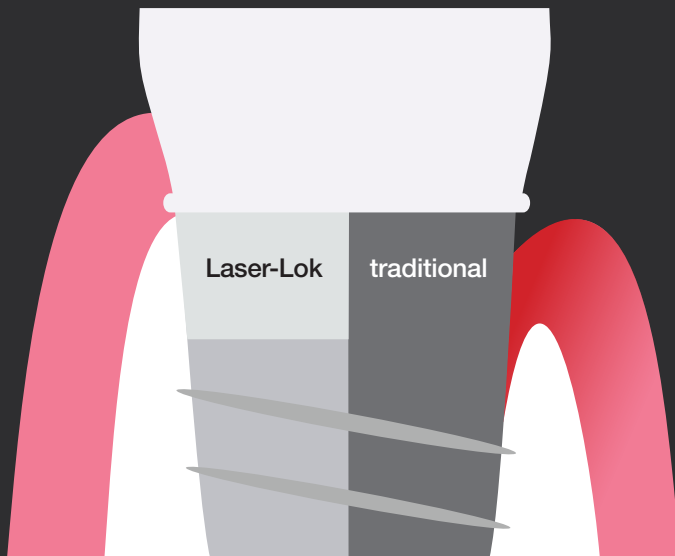


traditional



reduced
probing depths

Increased probing depths have been associated with increased risk of peri-implant disease and implant failure.⁶ The Laser-Lok surface has been shown to reduce probing depths by up to 1.21mm versus leading competitors.²



reduce the risk
of peri-implantitis

Research has shown the presence of periodontal pathogens can increase the risk of peri-implantitis.^{7,8} In a recent study Laser-Lok was shown to reduce the number of periodontal pathogens by up to 77% compared to traditional surfaces.⁹

confidence across the arch

Whether implants are being placed in the anterior, posterior, mandible or maxilla, Laser-Lok has shown increased success rates and improved crestal bone maintenance in both immediate and delayed protocols.³



better results, better esthetics



long-term esthetic results at 15 years¹⁰

learn more at www.laser-lok.com

1. Immediate versus delayed treatment in the anterior maxilla using single implants with a laser-microtextured collar: 3-year results of a case series on hard- and soft-tissue response and esthetics. Renzo Guarnieri, MD, DDS, Fabrizio Belleggia, DDS, & Maurizio Grande, DDS. *Journal of Prosthodontics*, Volume 25, Issue 2, February 2016. p.135-145.

2. The effects of laser microtexturing of the dental implant collar on crestal bone levels and peri-implant health. S Botos, H Yousef, B Zweig, R Flinton, S Weiner. *Int J Oral Maxillofac Implants* 2011;26:492-498.

3. The impact of laser microtexturing collar designs on crestal bone level, and clinical parameters under various placement and loading protocols. M Serra, L Bava, D Farronato, V Iorio Siciliano, M Grande, R Guarnieri. *Int J Oral Maxillofac Implants* 2014; 29:354-363.

4. Marginal tissue response to different implant neck design. HEK Bae, MK Chung, IH Cha and DH Han. *Yonsei University College of Dentistry, Seoul, South Korea J Korean Acad Prosthodont*. 2008 Dec;46(6):602-609.

5. The effect of different surgical drilling procedures on full laser-etched microgrooves surface-treated implants: an experimental study in sheep

Jimbo R, Tovar N, Yoo DY, Janal MN, Anchieta RB, Coelho PG. *Clin Oral Implants Res*. 2014 Sep; 25(9): 1072-7.

6. Dental implants: Maintenance, care and treatment of peri-implant infection. Chen, S. and Darby, I. *Australian Dental Journal*, 48(4), pp. 212-220, 2003.

7. Microbiological findings and host response in patients with peri-implantitis. Hultin, M., Gustafsson, A., Hallstrom, H., Johansson, L., Ekfeldt, A., & Klinge, B. *Clinical Oral Implants Research*, 13(4), 349-358, 2002.

8. Microbial Characteristics of Peri-Implantitis: A Case-Control Study. Y.C. de Waal, H.V. Eijssbouts, E.G. Winkel, and A.J. van Winkelhoff. February 2017, Vol. 88, No. 2, Pages 209-217.

9. A double-blind randomized trial comparing implants with laser-microtextured and machined collar surfaces: Microbiologic and clinical results. Guarnieri R, Rappelli G, Piemontese M, Procaccini M, Quaranta A. *Int J Oral Maxillofac Implants*. 2016; 31(5):1117-25.

10. Case provided by Dr. Cary Shapoff, DDS (Periodontist), and Dr. Jeffrey A. Babushkin, DDS (Restorative).



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