STRAUMANN®
MINI IMPLANTS

Mini Implant. Maximum trust.

straumann

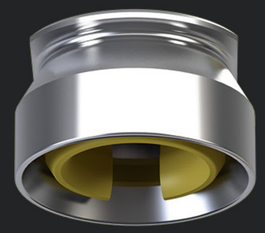
STRAUMANN® MINI IMPLANTS

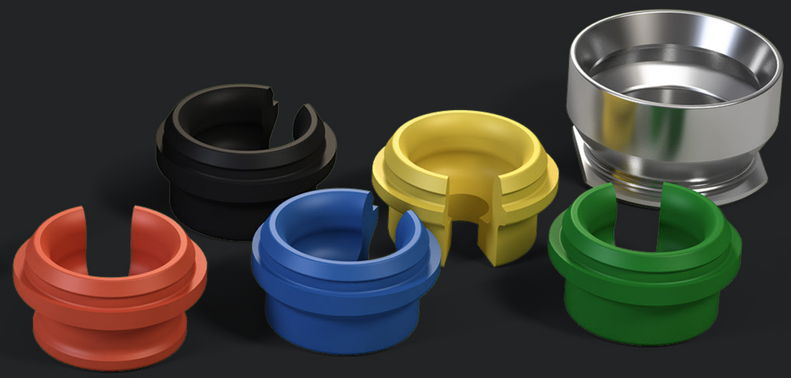
Mini Implant. Maximum trust.

AT A GLANCE

Provide edentulous patients presenting reduced horizontal bone availability with a less invasive*, immediate removable fixation of their overdenture.

* If GBR can be avoided





Apically tapered implant body design

Roxolid®

SLA®

Optiloc®

AT A GLANCE

APICALLY TAPERED IMPLANT BODY DESIGN

→ Allows underpreparation and supports a high primary stability

AT A GLANCE
ROXOLID®

→ High material strength and biocompatibility[1]

→ Peace of mind with mini implants[2]

1 Norm ASTM F67 (states min. tensile strength of annealed titanium)
2 http://www.straumann.com/science-roxolid.html

AT A GLANCE
SLA®

→ Predictability in osseointegration[3–9]

→ Scientific evidence

→ Low prevalence of peri-implantitis[4]

→ Bone preservation[4–5]

3 Fischer K et al.enberg T.: Prospective 10-year cohort study based on a randomized controlled trial (RCT) on implant-supported full-arch maxillary prostheses. Part 1: sandblasted and acid-etched implants and mucosal tissue. Clin Implant Dent Relat Res. 2012 Dec;14(6):808-15. **4** van Velzen FJ. etAl. CM. 10-year survival rate and the incidence of peri-implant disease of 374 titanium dental implants with an SLA surface: a prospective cohort study in 177 fully and partially edentulous patients. Clin Oral Implants Res. 2015 Oct;26(10):1121-8 **5** Cochran DL. et Al. 5-year prospective multicenter study of early loaded titanium implants with a sandblasted and acid-etched surface. Int J Oral Maxillofac Implants. 2011 Nov-Dec;26(6):1324-32. **6** Cochran D. et Al. Clinical field trial examining an implant with a sand-blasted, acid-etched surface. J Periodontol. 2007 Jun;78(6):974-82. **7** Bornstein MM. et Al. Early loading of non-submerged titanium implants with a sandblasted and acid-etched surface. 5-year results of a prospective study in partially edentulous patients. Clin Oral Implants Res. 2005 Dec;16(6):631-8. **8** Roccuzzo M. et Al. Early loading of sandblasted and acid-etched implants: a randomized-controlled double-blind split-mouth study. Five-year results. Clin Oral Implants Res. 2008 Feb;19(2):148-52. **9** Derks J. et Al. Effectiveness of Implant Therapy Analyzed in a Swedish Population: Prevalence of Peri-implantitis. J Dent Res. 2016 Jan;95(1):43-9. doi

AT A GLANCE
OPTILOC®

→ Less space needed

In combination, the materials PEEK** and ADLC* contribute to:

→ Excellent wear resistance

→ Exceptional long-term performance

→ Low maintenance

→ Low friction between abutment and matrix

* ADLC: Amorphous diamond-like carbon ** PEEK: Polyether ether ketone

WHAT'S IN IT FOR YOU?

Increase patient acceptance for implant treatment by eliminating bone augmentation

Offer more quality of life to more edentulous patients

Differentiate your practice with new gold standard material Roxolid® and see an increased practice revenue stream

WHAT'S IN IT FOR YOU?

INCREASE PATIENT ACCEPTANCE FOR IMPLANT TREATMENT BY ELIMINATING BONE AUGMENTATION

→ Reduced diameter (⌀ 2.4 mm) for reduced horizontal bone availability

→ Increased patient acceptance with less invasive procedures

Note:
A minimum of 6 Straumann® Mini Implants to stabilize a full maxillary and a minimum of 4 Straumann® Mini Implants to stabilize a full mandibular denture should be placed

WHAT'S IN IT FOR YOU?

OFFER MORE QUALITY OF LIFE TO MORE EDENTULOUS PATIENTS

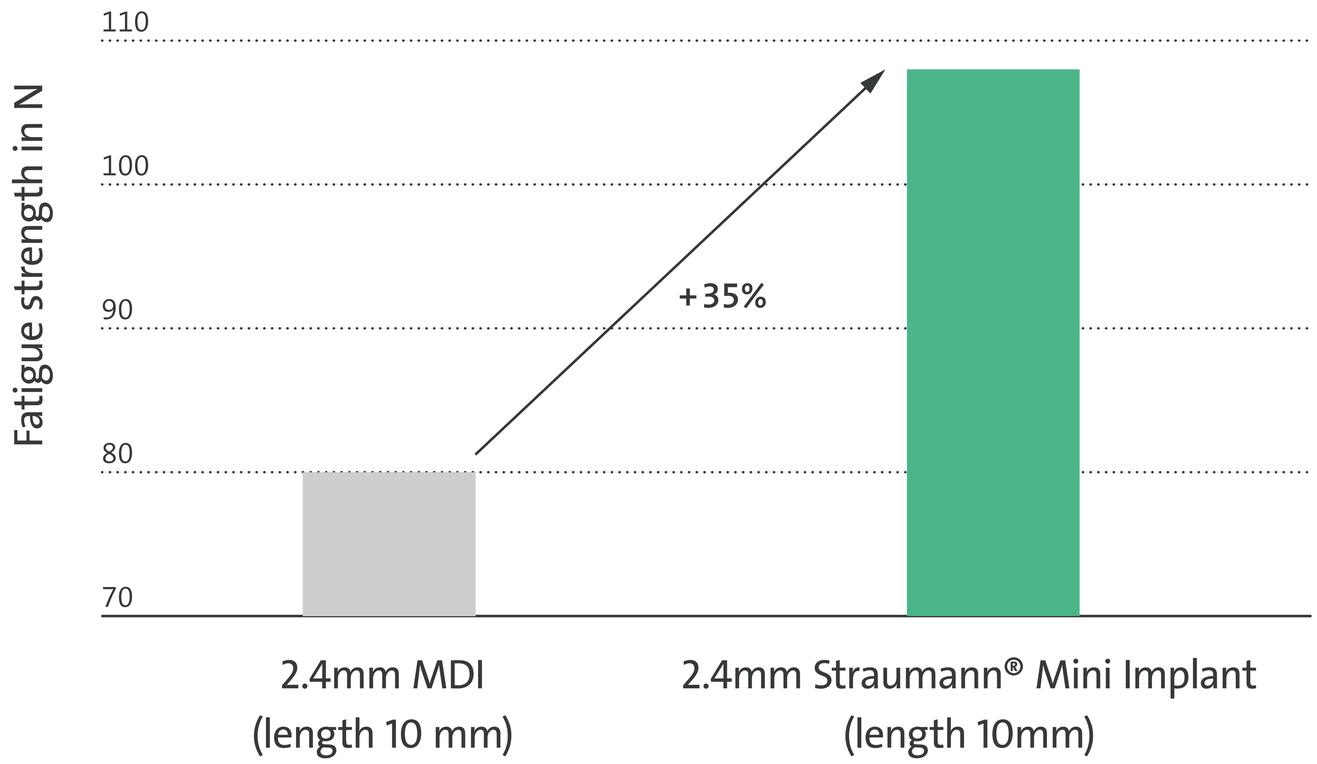
Every patient is unique

Straumann® Mini Implants are designed for patients who are looking for an immediate, affordable stabilization of their removable dentures and only have reduced bone availability.

WHAT'S IN IT FOR YOU?

DIFFERENTIATE YOUR PRACTICE WITH NEW GOLD STANDARD MATERIAL ROXOLID® AND SEE AN INCREASED PRACTICE REVENUE STREAM

- → More treatment options with smaller implants made of Roxolid®
- → Roxolid® proven quality



Source: data on file, according to ISO 14801, conditions 2016
Straumann® Mini Implants, made from Roxolid® show a 35% higher fatigue strength than competitor mini implants.

CLINICAL EVIDENCE

Roxolid® – Proven quality

SLA® – Long-term scientific evidence

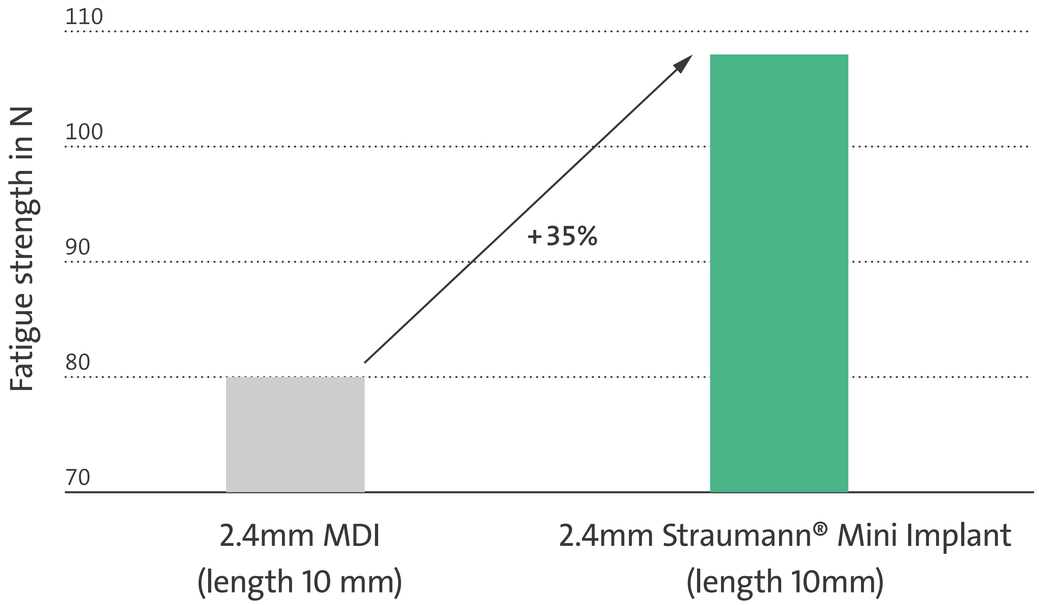
Optiloc® – Durability and efficiency

CLINCAL EVIDENCE

ROXOLID® – PROVEN QUALITY

→ Higher mechanical strength compared to titanium[1]

→ The successful use of Roxolid® has been documented in numerous clinical trials with up to 5-year follow-ups[2]



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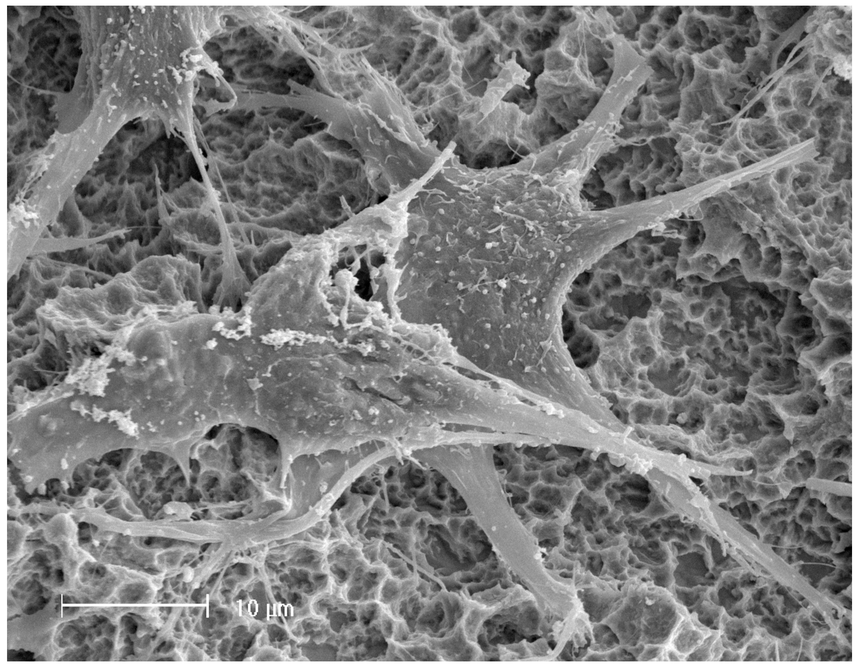
References:
1 Norm ASTM F67 (states min. tensile strength of annealed titanium)
2 http://www.straumann.com/science-roxolid.html

CLINCAL EVIDENCE

SLA® – LONG-TERM SCIENTIFIC EVIDENCE



→ High and consistent survival rates between 95.1% and 98.8% documented by different studies after 5- and 10-year follow-ups[3–9]

→ Very low prevalence of peri-implantitis (1.8%) over the 10-year follow-up period[4]

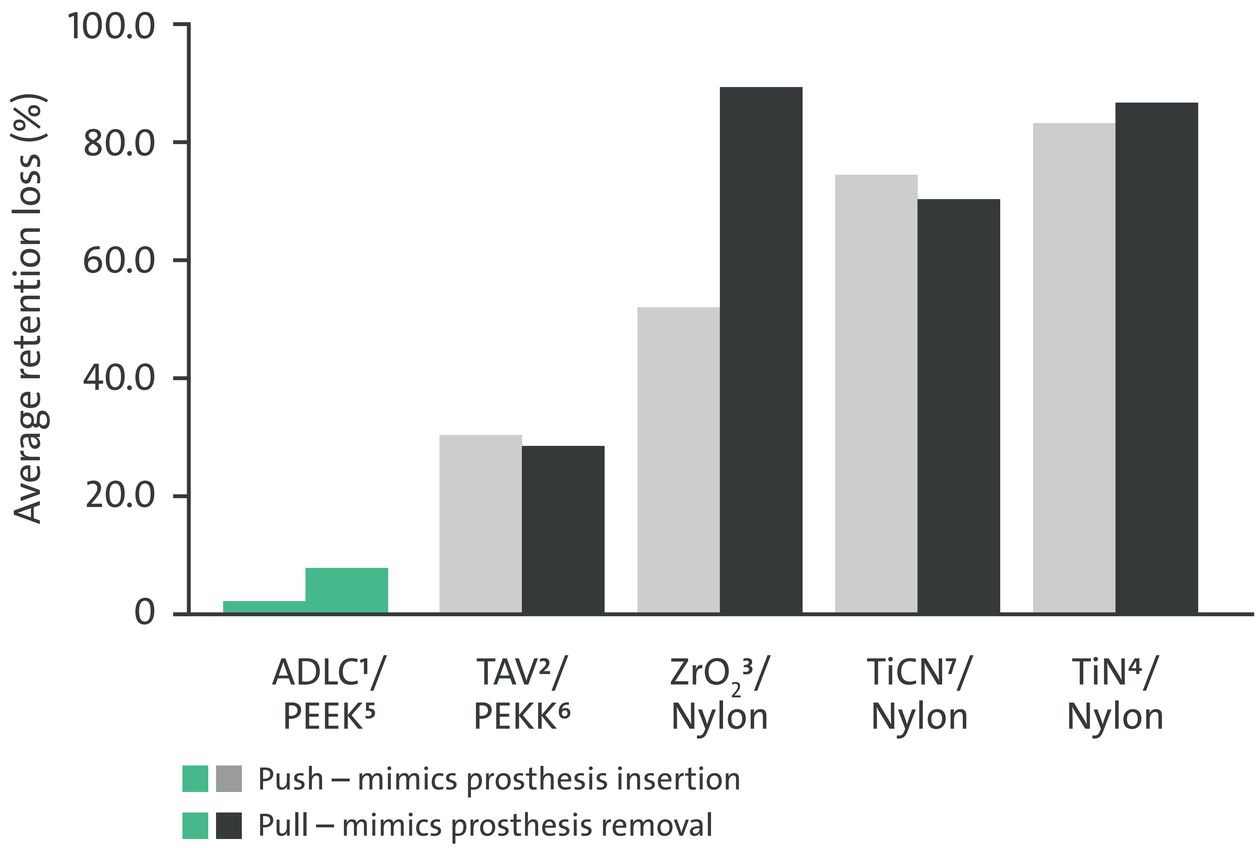
→ Average bone loss of 0.5 – 1 mm after 10 years (baseline defined as implant loading time)[4,5]

References:
3 Fisch¬er K, Stenberg T.: Prospective 10-year cohort study based on a randomized controlled trial (RCT) on implant-supported full-arch maxil¬lary prostheses. Part 1: sandblasted and acid-etched implants and mucosal tissue. Clin Implant Dent Relat Res. 2012 Dec;14(6):808-15. 4 van Velzen FJ, Ofec R, Schulten EA, Ten Bruggenkate CM. 10-year survival rate and the incidence of peri-implant disease of 374 titanium dental implants with an SLA surface: a prospective cohort study in 177 fully and partially edentulous patients. Clin Oral Implants Res. 2015 Oct;26(10):1121-8 5 Cochran DL, Jackson JM, Bernard JP, ten Bruggenkate CM, Buser D, Taylor TD, Weingart D, Schoolfield JD, Jones AA, Oates TW Jr. A 5-year prospective multicenter study of early loaded titanium implants with a sandblasted and acid-etched surface. Int J Oral Maxillofac Implants. 2011 Nov-Dec;26(6):1324-32. 6 Cochran D, Oates T, Morton D, Jones A, Buser D, Peters F. Clinical field trial ex-amining an implant with a sand-blasted, acid-etched surface. J Periodontol. 2007 Jun;78(6):974-82. 7 Bornstein MM, Schmid B, Belser UC, Lussi A, Buser D. Early loading of non-submerged titanium implants with a sandblasted and acid-etched surface. 5-year results of a prospec¬tive study in partially edentulous patients. Clin Oral Implants Res. 2005 Dec;16(6):631-8. 8 Roccuzzo M, Aglietta M, Bunino M, Bonino L. Early loading of sandblasted and acid-etched implants: a randomized-controlled double-blind split-mouth study. Five-year results. Clin Oral Implants Res. 2008 Feb;19(2):148-52. 9 Derks J, Schaller D, Håkansson J, Wennström JL, Tomasi C, Berglundh T. Effectiveness of Implant Therapy Analyzed in a Swedish Population: Prevalence of Peri-implantitis. J Dent Res. 2016 Jan;95(1):43-9. doi

CLINCAL EVIDENCE

OPTILOC® – DURABILITY AND EFFICIENCY

- → Space-saving design
- → Reduced maintenance
- → ADLC[1] in combination with PEEK[5]

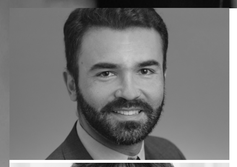


Combination of ADLC-coated abutment and PEEK retention inserts: A reliable connection that endures

Retention loss after 10’000 cycles of the straight abutment performed in phosphate buffered saline (pH 7.4) at room temperature. Data represents difference between the basal (100 cycles) and final (10’000 cycles) measurements (Fmax) presented as percentage change (source: Straumann, data on file).

References:
1 Amorphous diamond-like carbon, 2 Titanium Aluminum Vanadium, 3 Zirconium dioxide, 4 Titanium Nitride, 5 Polyether ether ketone, 6 Polyether ketone ketone, 7 Titanium Carbonitride

CLINICAL CASES



DDS

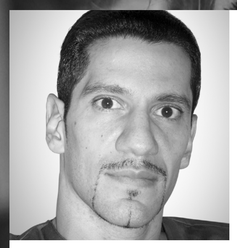
Nicola Alberto Valente

Dr. Med. Dent., BDS, MDS,

Murali Srinivasan

Med. dent., MAS,

Nicole Kalberer

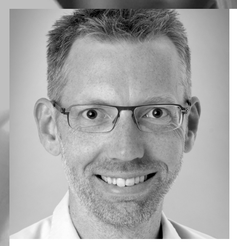


DDS

Sepehr Zarrine

Oral surgeon, Exclusive private implantology practice,

Saint Dié, France



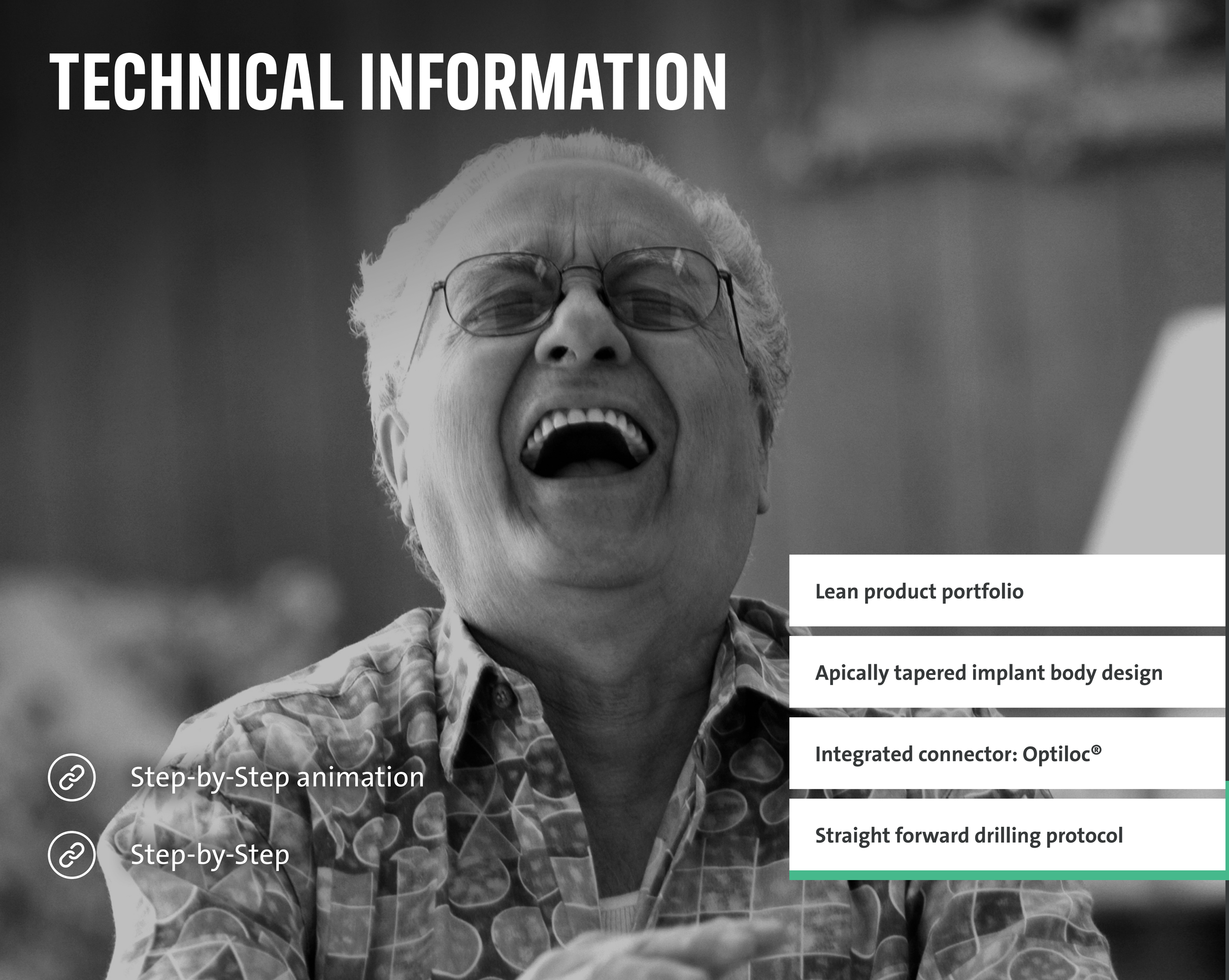
DDS

Michael Kristensen

Oral surgeon, 2 private practices,

Aarhus, Denmarkv

TECHNICAL INFORMATION



- Lean product portfolio
- Apically tapered implant body design
- Integrated connector: Optiloc®
- Straight forward drilling protocol

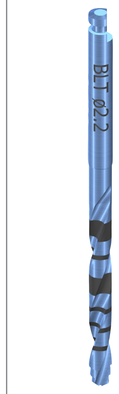
Step-by-Step animation

Step-by-Step

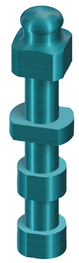
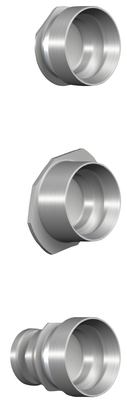
TECHNICAL INFORMATION

LEAN PRODUCT PORTFOLIO

Surgical components

					
Mini Implant	Needle drill, long	Pilot drill	Adapter Optiloc® for ratchet	Adapter Optiloc® for handpiece	Paralleling posts

Prosthetic components

				
Implant Analog	Matrix housings	Retention insert	Processing spacer	Mounting collar
				
Impression/ fixing matrix	Matrix housing extractor + stripping equipment	Demounting tool for mounting inserts + model analog reposition aid	Mounting and demounting tool for retention inserts	Equipment box incl. 3 tools

TECHNICAL INFORMATION

APICALLY TAPERED IMPLANT BODY DESIGN

→ Designed for immediate loading (if an insertion torque of 35 Ncm has been reached)

→ Diameter 2.4 mm only & apically tapered implant body design: allows underpreparation and supports a high primary stability

TECHNICAL INFORMATION

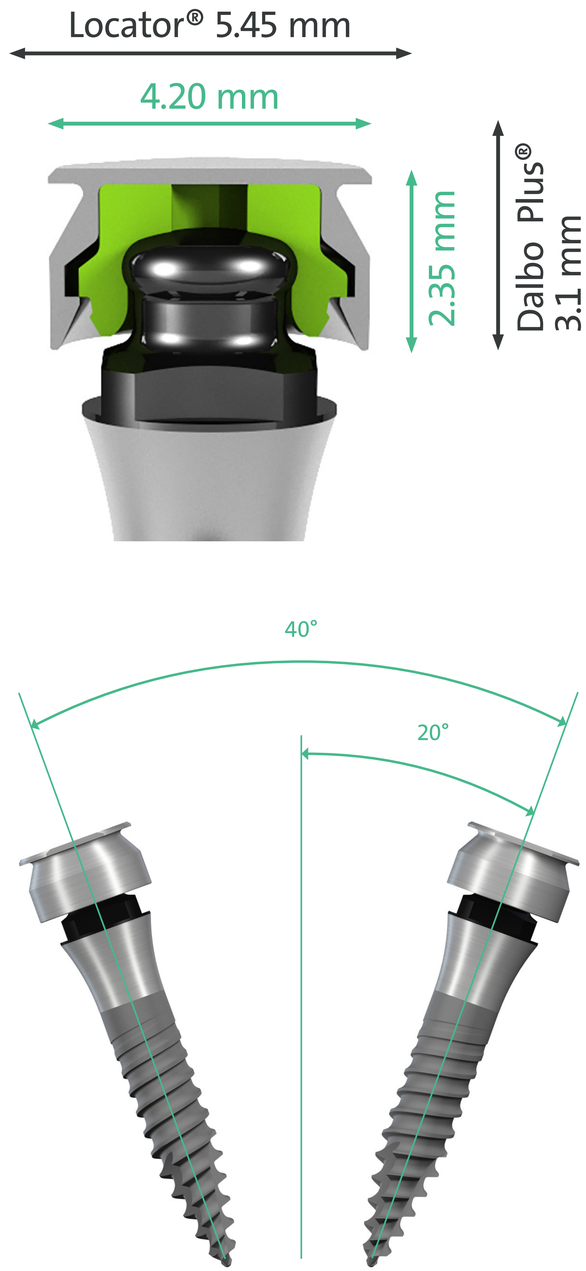
INTEGRATED CONNECTOR: OPTILOC®

→ Slimmer than Locator®

→ Lower than ball attachments

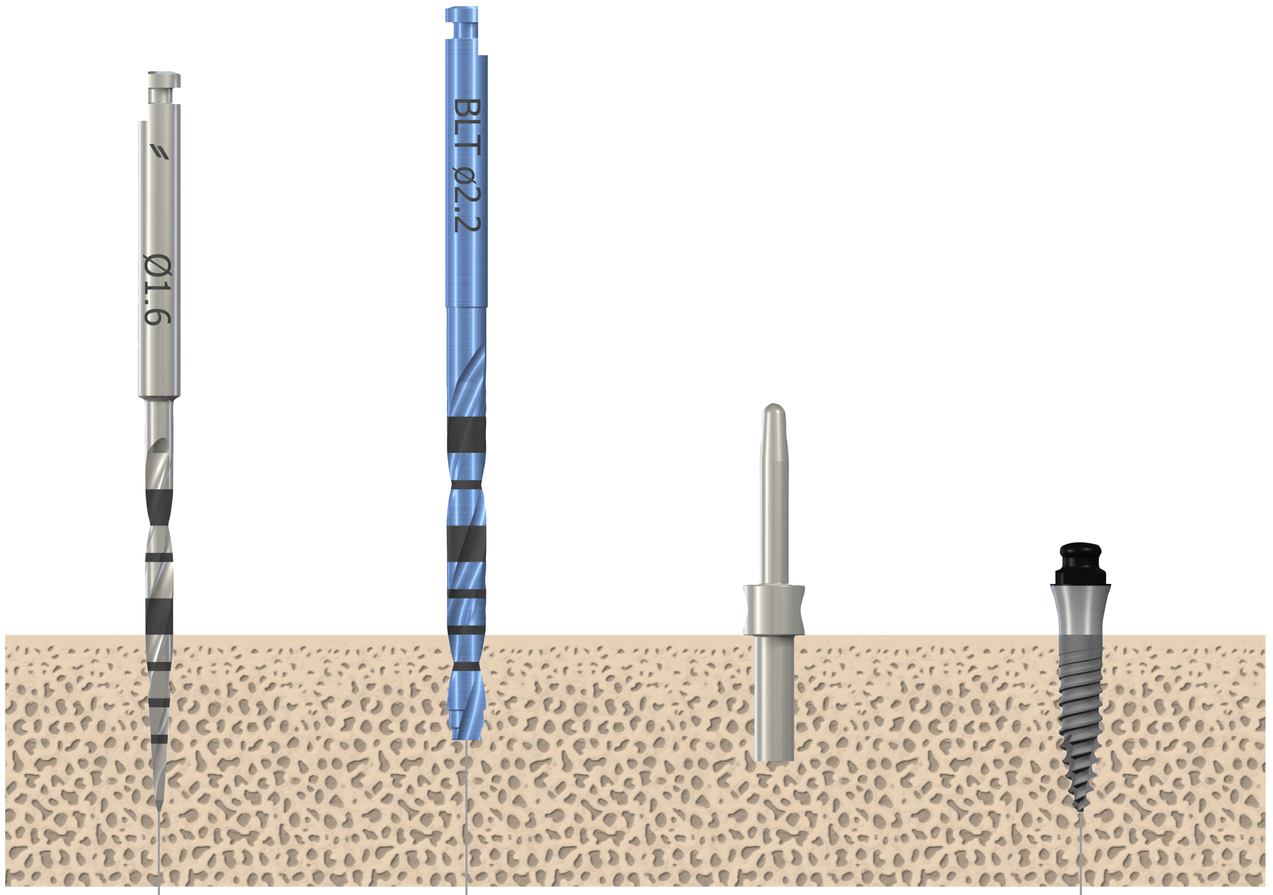
→ Ideal dimensions allow the placement of the matrix in narrow spaces

The Optiloc® Matrix System allows a convergence, or divergence, of up to 20 degrees of each implant in relation to the denture's path of insertion. This means that divergences between two implants of a maximum of 40 degrees can be corrected.



TECHNICAL INFORMATION

STRAIGHT FORWARD DRILLING PROTOCOL



recommended steps

dense cortex only

✓	**Type I**	Very hard bone
✓	**Type II**	Hard bone
✓	**Type III**	Soft bone
✗	**Type IV**	Very soft bone

Recommended speed: rpm max 800

SUMMARY

→ Provide immediate stabilization of overdentures with a less invasive* treatment plan, faster healing and less post-operative discomfort

→ Roxolid® for higher material strength.
35% increase in fatigue strength
(compared to competitor mini implant)

→ With SLA® surface for a reliable and long-term scientifically proven osseointegration

→ Optiloc® ideal for reduced space and best wear resistance

→ Straumann® Lifetime Guarantee!

→ Finally a mini implant you can trust!

* if GBR can be avoided

490.125/en/D/00 02/23