



SMILE WITH CONFIDENCE STRONG, NATURAL, FOREVER



MERIDIAN

Easy surgery, soft tissue friendly

1.6 S Line 2.6 S Line MAMA

Introducing the S Line Dental Implant System

Our S Line dental implant represents the next evolution in implant technology. Engineered with a sharper macrothread design, this innovative implant offers enhanced engagement with the bone, ensuring superior primary stability and a more secure fixation from the moment of placement.

Sharper Macrothread Design

The S Line features a uniquely sharpened macrothread that increases the contact surface area between the implant and the bone. This design innovation enhances the initial mechanical grip, providing better stability during the critical healing phase.

Enhanced Primary Stability

The improved thread geometry not only delivers a stronger initial fixation but also minimizes micromovements, which is essential for optimal osseointegration. This means quicker and more reliable integration of the implant with the surrounding bone tissue.

Optimized Load Distribution

The refined thread profile allows for efficient load distribution, reducing stress concentrations and promoting a more even load transfer across the implant. This is particularly beneficial in cases of immediate loading or in patients with compromised bone density.

Versatile Application

Suitable for a variety of clinical scenarios- from single tooth replacements to full-arch rehabilitations-the S Line implant is designed to meet diverse treatment needs while ensuring long-term success and high patient satisfaction.

Accelerated Osseointegration

The improved bone-to-implant interface fosters fastergnd more robust osseointegration, allowing you to confidently proceed with earlier prosthetic loading and reducing overall treatment time.

Streamlined Surgical Procedure

The design facilitates easier insertion and placement, minimizing the need for excessive torque and reducing surgical trauma. This contributes to a smoother, more efficient procedure that benefits both the clinician and the patient.

Aesthetic Excellence

Beyond its mechanical advantages, the S Line implant is engineered to support optimal bone integration, resulting in superior aesthetic outcomes that complement natural tooth structure.

Elevate your restorative solutions with the MERIDIAN 6 S Dental Implant System-a cutting-edge product that combines innovative design with proven performance, paving the way for enhanced clinical success and patient care.

Meridian 1.6 S Line

Meridian 2.6 S Line

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Overview The STEINSOHN ceramic implant series MI 1.6, 2.6

STEINSOHN Ceramic Implants - Precision Meets Perfection

STEINSOHN ceramic implants offer the ideal combination of aesthetics, stability, accuracy, biocompatibility, and superior osseointegration. Designed with precision, these implants utilize advanced materials to provide a metal-free, 100% biocompatible solution. Made from BIO-X (Bioverit 1), they ensure excellent compatibility with the human body while delivering exceptional strength and durability.

Innovative Design & Versatile Application

High-strength zirconia implants in various sizes. Four diameters: 3.3 mm, 4.0 mm, 4.8 mm, 5.6 mm. Available in lengths of 8 mm, 11 mm, 14 mm, and 17 mm. Mi2.6 two piece system with abutment for flexible use in both one-stage and two-stage procedures, including immediate restoration.

Efficiency & Bone Preservation

STEINSOHN implants are engineered for minimized drilling, requiring only a single drill for placement. Less drilling means less heat-protecting bone integrity and promoting faster healing.

LESS HEAT, MORE BONE.

Aesthetic Excellence, Uncompromising Strength.

Precision & Predictability with STEINSOHN Cemented Abutments

The cemented abutment, crafted from ST FIBER GLASS, allows for customized shaping directly in situ, ensuring a precise and individualized fit.

Designed for late and immediate implant placement, STEINSOHN offers a structured, intuitive approach to implantation.

Combined with the 2INGIS navigation system and MERIDIAN, planning is streamlined to a minimum-while ensuring maximum accuracy and predictable outcomes.

A Workflow Engineered for Success

Immediate or delayed prosthetic placement with precision Flexibility for direct implementation or bite-adjusted adaptation Long-term temporary phase for optimal patient adaptation Immunological & Digital Workflow for superior integration and long-term success Effortless planning.







The anwser in front of YOU

ACTIVE DOUBLE THREAD®

Introducing the Ultimate Double ACTIVE Dental Implant Thread - Maximum Stability, Unmatched Osseointegration! Are you looking for a dental implant that delivers extreme primary stability, even in the most challenging bone conditions? Our next-generation aggressive implant thread is engineered for superior grip, rapid osseointegration, and long-term success.

- **Ultra-Deep Cutting Threads** Designed to bite into bone with maximum efficiency, ensuring immediate mechanical stability.
- **Self-Tapping & Bone-Expanding Design** Reduces drilling steps while optimizing bone preservation.
- Perfect for Low-Density Bone Overcomes the challenges of soft bone by enhancing surface contact and load distribution.
- Fast Healing & Strong Osseointegration Special surface treatments promote rapid bone attachment and long-term integration.
- Confidence in Immediate Loading Provides unparalleled initial stability, making it ideal for immediate restorations.

B.B chamers 2 and BONE GRINDER

Integrated Bone Grinder - Enhancing Osseointegration with Natural Bone Regeneration STEINSOHN implants are designed with an innovative integrated bone grinder, revolutionizing implant site preparation and healing. This advanced feature collects microchips of autologous bone during insertion, bringing valuable bone material and healing information directly to the implant surface.

Benefits for Osseointegration & Bone Regeneration

Autologous Bone Stimulation

The collected bone microchips serve as natural grafting material, enhancing bone healing and regeneration. Autologous bone is the gold standard in regenerative dentistry, providing osteogenic, osteoinductive, and osteoconductive properties.

Accelerated Osseointegration

By bringing vital bone material directly to the implicht surface, the integrated grinder enhances early bone attachment. Faster osseointegration leads to higher primary stability and long-term implant success.

■ Enhanced Bone Density & Stability

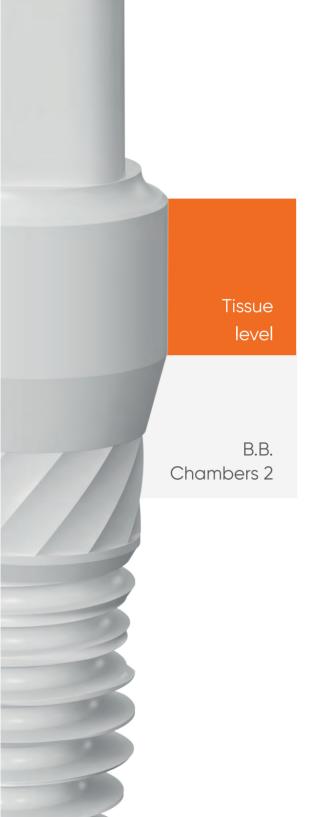
Bone microchips are deposited around the implant, filling void spaces and promoting uniform bone growth. This process improves implant stability, especially in cases of low bone density.

Minimized Bone Loss & Peri-Implant Defects

The bone grinder reduces the need for additional grafting procedures, as it utilizes the patient's own bone for natural healing. Helps preserve crestal bone and prevent marginal bone loss, ensuring long-term implant success.

Improved Biomechanical Strength

More bone contact around the implant means improved load distribution, reducing stress on surrounding structures, Provides long-lasting stability, making implants more resistant to mechanical forces. By harnessing the body's own regenerative potential, STEINSOHN implants set a new standard for natural, predictable, and biologically driven implant success.



Revolutionary Blood-Bone Chamber 2 Technology – Redefining Implant Integration!

Discover the next evolution in dental implant stability and biological harmony with our innovative Blood-Bone Chambers 2gen. Designed for superior osseointegration and enhanced soft tissue attachment, this cutting-edge feature transforms the healing process from the inside out.

How It Works:

- Blood & Bone Collection Chambers Strategically engineered to trap vital bone particles and blood, naturally enhancing implant integration.
- Seamless Design No Gaps, No Microjoints Ensures an ideal biological width, eliminating weak points and preventing bacterial infiltration.
- Optimized Giggival Attachment The unique tulip-shaped design promotes soft tissue adhesion, effectively closing the immunological door for long-term peri-implant health.
- Ideal for Immediate Implantation The chamber system accelerates healing, making it the perfect choice for immediate load protocols and faster patient recovery.
- Enhanced Seal for Maximum Longevity A biologically ideal surface supports a strong, lasting connection between the implant and surrounding tissues.

Faster Healing. Stronger Integration. Ultimate Stability.



APICAL POWER OF THE IMPLANT THREAD

Double ACTIVE Thread® - Maximum Stability & Osseointegra-tion STEINSOHN implants with Double ACTIVE Thread® are engineered for superior primary stability, even in challenging bone conditions. The unique thread design maximizes surface area in the lower implant region, ensuring secure osseointegration and long-term success.

Precision-Driven Stability Optimized for difficult bone types Ensures excellent primary stability with a torque of up to 35 Ncm Bone-type dependent drilling protocols for precise adaptation Specially adjusted form drills for a seamless insertion process.

More Contact. More Stability. More Success.

STEINSOHN – Advancing Implantology with Innovation.

BIO-X

the HIGH-TECH implant material

BIOVERIT® I The Game-Changer in Implantology!



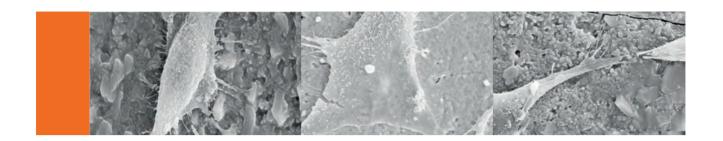
Experience the next level of biocompatibility and durability with BIOVERIT® I, the advanced ceramic revolutionizing dental implantology.

Designed for exceptional osseointegration and long-term stability, this cutting-edge material sets a new standard in implant performance.

Why Choose BIOVERIT® !?

- Unmatched Biocompatibility Naturally integrates with bone and soft tissue, reducing inflammation and rejection risks.
- Superior Osseointegration Promotes direct bone bonding for faster healing and maximum implant stability.
- High-Strength & Fracture Resistance Engineered to withstand occlusal forces, ensuring long-term durability.
- No Bacterial Adhesion Minimizes the risk of peri-implantitis, keeping the implant site healthy and infection-free.
- Enhanced Aesthetics The natural translucency of BIOVERIT® I blends seamlessly with surrounding tissues for superior esthetic results.

BIOVERIT® I - The Future of Reliable, Biocompatible, and Long-Lasting Dental Implants!



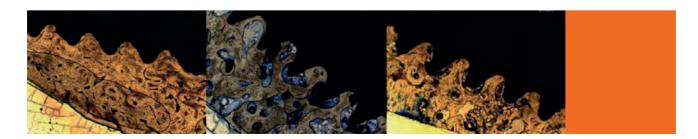
The Ultimate Dental Implant – Precision, Strength & Bioactive Excellence!

When it comes to dental implants, only the best will do. Our state-of-the-art implants, featuring a Double Active Thread for unmatched primary stability and BIOVERIT® I bioactive glass-ceramic for superior osseointegration, redefine what's

- Maximum Stability The aggressive Double Active Thread ensures optimal grip, even in challenging bone conditions.
- Faster Healing & Stronger Integration BIOVERIT® I actively bonds with bone and soft tissue, promoting long-term success.
- Unmatched Biocompatibility Eliminates gaps and microjoints, reducing inflammation and ensuring a perfect biological seal.
- Superior Aesthetics & Durability Designed for lifelong performance, preventing bacterial infiltration and peri-implantitis.

Innovation Meets Perfection – The Future of Implantology is Here!

Don't settle for ordinary-choose the world's most advanced implant system for exceptional results, ultimate patient satisfaction, and lifelong reliability.



MERIDIAN

CERAMIC AND HEAT

SMF Magnetic Force Technology - A Drill-Free Revolution in Implantology

Zirconia has limited heat dissipation, increasing the risk of bone overheating during drilling.

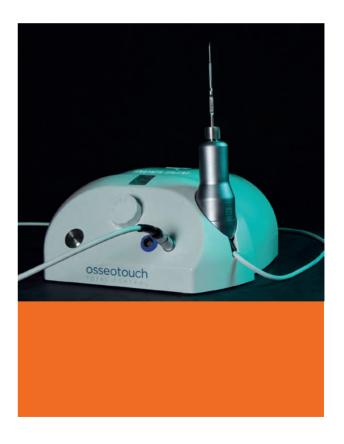
To counter this, STEINSOHN reduces drilling to a minimum-and introduces the cutting-edge SMF Magnetic Force Technology*.

Atraumatic Bone Shaping Without Overheating

- Minimized Drilling Reduces thermal damage and preserves bone vitality
- Magnetic Force Technology Shapes bone safely without excessive heat
- Optimized Bone Class Creation Controlled adaptation for superior implant integration

We don't just adapt to bone-we create the ideal bone class. Welcome to the Future of Dentistry.

not all our dental implants systems are with SMF compatible. Please check the SMF protocols.



CREATING VASCULARIZED BONE

DOUBLE ACTIVE Thread® & SMF Technology – Precision Bone Condensation

The ACTIVE Thread®, combined with STEINSOHN MAGNETIC FORCE (SMF) technology, condenses bone like a bone condenser, ensuring exceptional primary stability.

Innovative Bone Optimization

- Creates ideal space for stem cells to enhance regeneration
- Overextended preparation in hard bone allows for optimal cavity formation
- MERIDIAN DOUBLE ACTIVE Thread® design facilitates bone chip and defect blood retention
- Magnetic Mallet & DOUBLE ACTIVE Thread® work in synergy for superior osseointegration

Stronger Bone. Greater Stability. Predictable Results.

STEINSOHN – Advancing Implantology with Innovation.



The red areas indicate void spaces created through overextended preparation, providing an optimal environment for stem cell migration and bone regeneration.

PRESERVING PAPILLA

Preserving Papilla Height with Ceramic Implants

STEINSOHN ceramic implants are designed to support natural soft tissue architecture, ensuring aesthetic excellence and long-term stability. Unlike traditional implants, which can lead to bone loss and soft tissue recession, our ceramic implants allow bone to taper naturally, maintaining optimal papilla height without the need for augmentation.

How Implant Shape Enhances Papilla Preservation

The unique design of STEINSOHN implants promotes biological harmony between bone and soft tissue, preventing gingival collapse and ensuring a natural, lifelike emergence profile.

- Optimized Contour for Soft Tissue Support The tulip-shaped neck gently supports the gingival architecture, preserving interdental papilla height.
- Bone-Friendly Geometry The implant's anatonical shape promotes gradual bone adaptation, reducing stress on cortical bone and preventing marginal bone loss.
- No Titanium Shadowing The natural white color of ceramic prevents gray discoloration of the gingiva, enhancing aesthetic outcomes in highly visible anterior regions
- Superior Osseointegration & Stability The unique macrostructure and surface texture of the implant enhance bone regeneration, maintaining long-term soft tissue health



CMERIDIAN IMPLANT

The MI 2.6 S Line ceramic implant relies on the proven outer contour of the 1.6 S Line implant

The abutment is cemented and can be ground as far as the tulip area.





MERIDIAN

The ceramic implant system

MATERIAL

At the forefront of this innovation is STEINSOHN, the only company worldwide utilizing BIO-X BIOVERIT, an advanced ceramic material that sets a new standard in implantology. BIO-X ensures exceptional integration, durability, and long-term tissue stability, making STEINSOHN the global leader in ceramic dental implant technology.

Why Choose Ceramic Implants?

100% Biocompatible & Hypoallergenic

eramic implants are completely metal-free, making them the ideal choice for patients with metal sensitivities or allergies. Unlike titanium implants, which can trigger inflammatory responses due to ion release, ceramic implants are biologically inert, reducing the risk of:

- Allergic reactions
- Inflammation & soft tissue irritation
- Long-term systemic effects of metal particles

Superior Aesthetics – Natural & Lifelike Appearance

Ceramic's natural white color eliminates the gray shadow effect often seen with titanium implants, especially in patients with thin gingival biotypes. This ensures:

- Seamless blending with natural teeth
- Highly aesthetic outcomes, even in the anterior region
- No risk of discoloration over time

By eliminating metal ion exposure, ceramic implants offer a safer, more predictable long-term solution for implant patients.

Exceptional Soft Tissue Integration & Peri-Implant Health

Ceramic implants naturally support soft tissue attachment, promoting:

- Healthy gingival adaptation without inflammation
- Reduced bacterial colonization, lowering the risk of peri-implantitis
- Greater long-term stability compared to metal implants

Ceramic's smooth, bioinert surface fosters excellent epithelial and connective tissue attachment, preventing soft tissue recession and inflammatory complications.

High Strength & Durability - BIOVERIT: The Future of Ceramic Implants

STEINSOHN is the only manufacturer worldwide incorporating BIOVERIT, an advanced, high-performance bioceramic that offers:

- Superior mechanical strength compared to traditional zirconia implants
- Higher fracture resistance, making it ideal for posterior and high-load regions
- Optimized surface texture for enhanced osseointegration and bone healing

BIOVERIT's exceptional durability ensures that STEINSOHN ceramic implants can withstand functional chewing forces while maintaining a natural feel and unmatched long-term success.

With its exclusive BIOVERIT ceramic technology, STEINSOHN has set a new global benchmark in biocompatible, aesthetic, and durable dental implants. Our ceramic implant system is designed for modern, health-conscious dentistry, providing:

- Ultimate biocompatibility for lifelong stability
- Superior aesthetics for natural-looking restorations
- Unrivaled safety with no metal ion release
- Strong, fracture-resistant implants engineered for long-term success

STEINSOHN - The Global Leader in BIO-X BIOVERIT Ceramic Implant Technology.

DESIGN

Precision Gingival Adjustment for Seamless Restorations

Achieve flawless gingival adaptation with MERIDIAN implants, designed for efficiency, accuracy, and aesthetic excellence. The implant can be precisely contoured in the tulip area using a Red Ring diamond bur at maximum rotation, with continuous water cooling and gentle pressure. This technique ensures a smooth transition between the implant and surrounding soft tissue, enhancing both functional stability and esthetic integration.

Key Advantages:

Perfect Gingival Line Adaptation

Allows for natural-looking soft tissue shaping, ensuring an aesthetic emergence profile. Provides optimal soft tissue support, preventing gingival recession over time.

Ideal for Crown & Bridge Restorations

Eliminates the need for additional gingival modifications after impression-taking. Ensures a precise fit for single crowns, multi-unit bridges, and full-arch rehabilitations.

Efficient & Time-Saving Workflow

The implant can be prepared chairside, reducing laboratory adjustments. Enables immediate cementation for a streamlined restoration process. Reduces overall treatment time while maintaining long-term clinical success.

Enhancing Precision & Longevity

The high-strength ceramic composition of MERIDIAN implants allows for precise modifications without compromising structural integrity.

By using an optimized preparation technique, practitioners can ensure:

- Minimized trauma to surrounding tissues
- Improved soft tissue healing and stability
- Predictable, long-lasting esthetic outcomes



MERIDIAN - Engineering Excellence for Modern Implantology.









MERIDIAN

Product overview, areas of use and indications

MI 1.6_3.3 S Line

Ø Thread 3.3 mm		
MI 1.6_3311	Length in mm	11
MI 1.6_3314	Length in mm	14
Ø Tulip 4.2 mm		

Indication

exclusively for narrow teetch 31/41





MI 1.6_4.0 S Line

Ø Thread 4.0 mm		
MI 1.6_4008	Length in mm	8
MI 1.6_4011	Length in mm	11
MI 1.6_4014	Length in mm	14
MI 1.6_4017	Length in mm	17
Ø Tulip 5.0 mm		

Indication

UJ lateral incisors, first and second premolarsLJ central and lateral incisors, first and second premolars





MI 1.6_4.8 S Line

Ø Thread 4.8 mm		
MI 1.6_4811	Length in mm	11
MI 1.6_4814	Length in mm	14
MI 1.6_4817	Length in mm	17
Ø Tulip 6.0 mm		

Indication

wide teeth





MI 1.6_5.6 S Line

Ø Thread 5.6 mm		
MI 1.6_5611	Length in mm	11
MI 1.6_5614	Length in mm	14
Ø Tulip 6.0 mm		

Indication

wide teeth























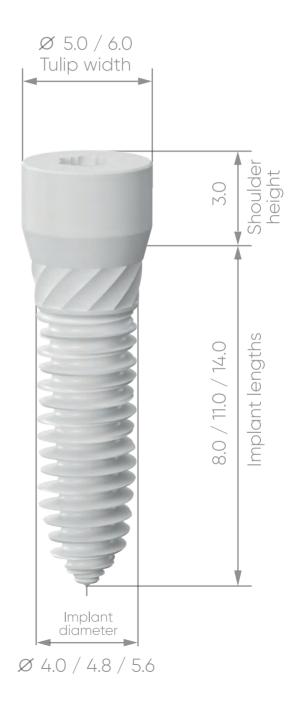












MERIDIAN

Product overview, areas of use and indications

MI 2.6_4.0 S Line

Ø Thread 4.0 mm		
MI 2.6_4011	Length in mm	11
MI 2.6_4014	Length in mm	14

Ø Tulip 5.0 mm

Indication

UJ lateral incisors, first and second premolars

LJ lateral incisors, first and second premolars





MI 2.6_4.8 S Line

Ø Thread 4.8 mm		
MI 2.6_4808	Length in mm	8
MI 2.6_4811	Length in mm	11
MI 2.6_4814	Length in mm	14
Ø Tulip 6.0 mm		

Indication

wide teeth





MI 2.6_5.6 S Line

Ø Thread 5.6 mm				
MI 2.6_5608	Length in mm	8		
MI 2.6_5611	Length in mm	11		
MI 2.6_5614	Length in mm	14		
Ø Tulip 6.0 mm				

Indication

wide teeth

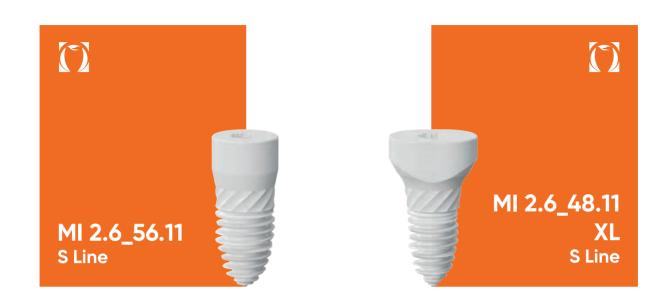














Unmatched flexibility

MERIDIAN implants - Precision Placement & Versatile Sizing

MERIDIAN implants offer unmatched flexibility in placement, allowing implantologists to be guided by either the nominal length (bone level) or a level 3mm above, depending on the specific clinical case. This versatility ensures optimal integration and prosthetic adaptability, whether for bone-level or tissue-level restorations

Available Diameters for Every Clinical Need

MERIDIAN implants are designed to accommodate a wide range of anatomical conditions, ensuring strong primary stabilityand predictable outcomes.

Available in four diameters

- 3.3mm Ideal for narrow ridges and aesthetic zones
- 4.0mm Standard size for most implant cases
- 4.8mm Provides greater stability for cases with reduced bone density
- 5.6mm Designed for high-load areas requiring maximum support

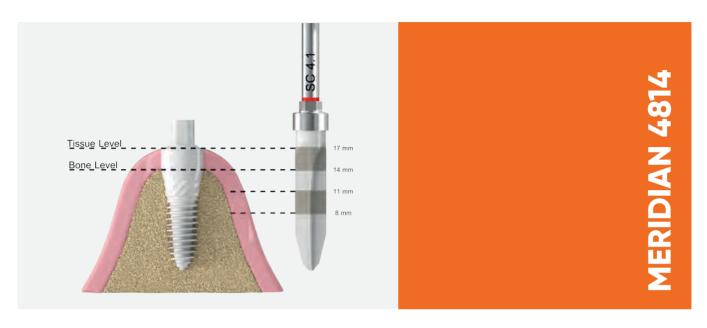
Various Length Options for Enhanced Adaptability

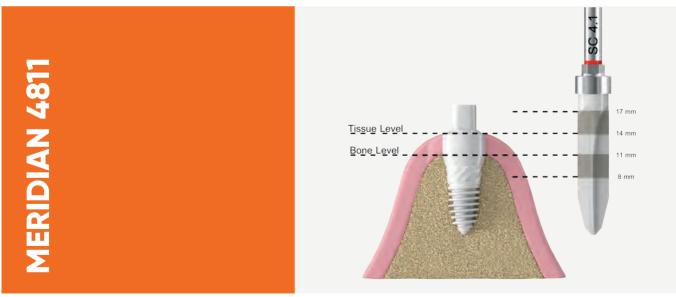
Suitable for immediate, early, and delayed placement.

Ensures excellent primary stability in all bone types.

Precision in Placement - Strength in Every Size.

MERIDIAN - The Next Generation of Implant Excellence





MERIDIAN Abutment – Customizable & Precise

The MERIDIAN abutment offers exceptional adaptability, allowing for precise customization to suit individual prosthetic needs. Its high-strength zirconia composition ensures that it can be easily ground to an angle of up to 20 degrees without compromising structural integrity.

Key Benefits Ffortless Customic

Effortless Customization

The abutment can be precisely adjusted chairside, eliminating the need for complex angulated solutions. Perfect for cases requiring minor angulation corrections without additional components.

Ø 6.0 mm



 20°

MERIDIAN IMPLANTS 4.0 MM Ø (HARD BONE)

Precision in Implant Placement - Optimized for Success

Every step in our implant placement protocol is meticulously designed to ensure maximum stability, bone preservation, and long-term success.

Step 1: Precise Marking – The 2.5mm round bur defines the exact implant position for optimal placement.

Step 2: Pilot Drilling – The 2.5mm pilot bur creates the initial path, ensuring accuracy and alignment.

Step 3: Final Forming – The 3.5mm final form bur shapes the osteotomy to match the implant's specifications.

Step 4: Coronal Preparation – The countersink bur prevents excessive compression at the coronal portion, allowing for optimal soft tissue adaptation.

Step 5: Controlled Insertion – The implant is placed at a maximum of one rotation per second, ensuring smooth insertion while maintaining torque below 35 Ncm for ideal primary stability.





MERIDIAN IMPLANTS 4.0 MM Ø (SOFT BONE)

Enhanced Stability in Soft Bone - The MERIDIAN Advantage

Soft bone (Type III & IV) presents unique challenges, but MERIDIAN implants are engineered to deliver exceptional primary stability in even the most delicate conditions.

Adaptive Drilling Protocol – he final bur depth is reduced by 3mm, ensuring the implant tip engages the safe apical area for a superior grip.

No Excess Cortical Compression – By avoiding unnecessary pressure on the cortical bone, we prevent resorption and enhance long-term stability.

Maximum Retention in Soft Bone – long-term stability. Maximum Retention in Soft Bone – The strategic implant positioning optimizes bone preservation and osseointegration, ensuring secure and predictable outcomes.

Immediate Stability, Faster Healing – uring secure and predictable outcomes. Immediate Stability, Faster Healing – This technique allows for reliable primary stability, even in compromised bone quality, making it ideal for immediate loading protocols.



MERIDIAN IMPLANTS 4.8 MM Ø (HARD BONE)

Precision Drilling Protocol for 4.8mm Implants – Stability & Predictability

Following the proven protocol for 4.0mm implants, the 4.8mm implant procedure maintains the same precise, controlled approach, ensuring optimal primary stability and bone preservation.

Step 1: Marking the Position – Using a 2.5mm round bur for accurate site preparation.

Step 2: Pilot Drilling – A 2.5mm pilot bur creates the initial pathway for precise implant alignment.

Step 3: Final Forming - The osteotomy is expanded using a 3.5 and 4.3mm final form bur, implant diameter.

Step 4: Countersink Preparation – Avoids cortical compression, allowing ideal soft tissue adaptation and reducing implant stress.

Step 5: Controlled Implant Placement – nserted at one rotation per second, maintaining a maximum torque of 35 Ncm for secure and predictable osseointegration.

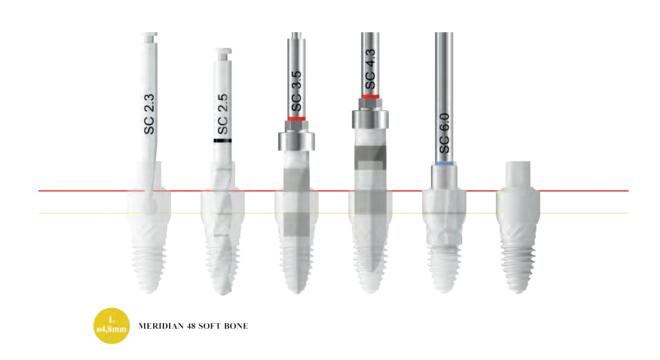




MERIDIAN IMPLANTS 4.8 MM Ø (SOFT BONE)

Follows the standard drilling protocol for the 4.8mm implant, with one key adjustment: The 4.3mm form bur depth is reduced by 3mm, instead of the 3.5mm bur.

Precision. Consistency. Predictable Results.



MERIDIAN IMPLANTS 5.6 MM Ø (HARD BONE)

Follows the standard 4.8mm implant drilling protocol, with one adjustment: The final form bur diameter is 5.1mm.



MERIDIAN IMPLANTS 5.6 MM Ø (SOFT BONE)

Follows the standard 4.8mm implant drilling protocol, with one key modification: The 5.1mm form bur depth is reduced by 3mm, instead of the 4.3mm bur.

Optimized Depth. Enhanced Precision.



MERIDIAN Implant indications

INDICATIONS

MERIDIAN Implants - Versatile, Precise, and Reliable

- Compatible with all bone types Ideal for immediate and late implant placement
- Designed for bridge or splinting applications Ensures stability and load distribution
- Tissue-level placement The shoulder remains the prosthetic plateau for optimal aesthetics
- Cemented abutment connection Secure and predictable integration
- Perfect for fixed crown and bridge restorations
- Splint multiple implants for enhanced structural integrity

CONTRAINDICATIONS®

Cases with excessive bending moments, such as:

- Bridges with more than one pontic
- Cantilevered crown/bridge restorations
- Bone-level positioning (MI implants must be placed at tissue level)
- Single-unit use in high-load areas:
 - MI 4.0mm Ø implants not approved for molar or canine regions
 - MI 4.0mm Ø implants not approved for bridge restorations
 - Implants under 4.8mm Ø not recommended for: Central upper incisors, canines, or molars

Connection of natural teeth with implants not allowed.

MERIDIAN DRILL CASE

Surgical Drill Kit - Precision with Fewer Instruments

Our advanced surgical drill kit is designed to streamline implant procedures, offering efficiency, precision, and patient safety with fewer instruments and high-performance ceramic drills.

Key Benefits:

Minimized Instrumentation, Maximized Efficiency

Reduces surgical complexity by requiring fewer drills for implant site preparation. Simplifies workflow, saving time and improving chairside efficiency. Less equipment means easier sterilization and organization.

High-Performance Ceramic Drills

Extreme durability with superior wear resistance. Biocompatible and metal-free, eliminating the risk of metal contamination. Reduced heat generation, preserving bone integrity and minimizing necrosis risk.

Optimized for Bone Preservation

Minimally invasive drilling ensures gentle bone preparation. Less heat, more bone - Steinsohn Ceramic drills provide better thermal management than traditional ceramic drills. Ensures optimal primary stability for successful implant placement.

Enhanced Surgical Precision & Safety

Designed for predictable outcomes with reduced risk of complications. Efficient cutting performance reduces surgical trauma and accelerates healing. Ideal for challenging bone conditions and all implant procedures. Smarter Surgery, Faster Healing - Elevate Your Implant Procedures with Precision.



we make it easy



	region	region	
4.8 (5.6)	47	17	4.8 (5.6)
4.8 (5.6)	46	16	4.8 (5.6)
4.0 (4.8)	45	15	4.0 (4.8)
4.0 (4.8)	44	14	4.0 (4.8)
4.8	43	13	4.8
4.0 (3.3)	42	12	4.0 (3.3)
3.3	41	11	4.8
3.3	31	21	4.8
4.0 (3.3)	32	22	4.0 (3.3)
4.8	33	23	4.8
4.0 (4.8)	34	24	4.0 (4.8)
4.0 (4.8)	35	25	4.0 (4.8)
4.8 (5.6)	36	26	4.8 (5.6)
4.8 (5.6)	37	27	4.8 (5.6)
	region	region	

(in brackets) = approved, but mostly second choice, or diameter too large, respectively | **black** blue = recommended diameter

Healing space and blood bone chambers

MERIDIAN Implants – Optimized Healing & Bone Preservation

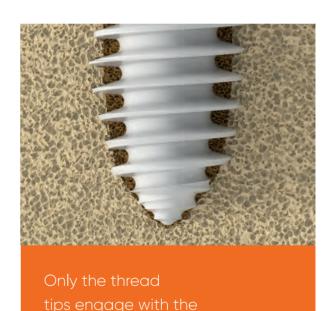
The innovative design of MERIDIAN implants revolutionizes osseointegration and bone preservation by incorporating healing chambers in the apical portion. These specialized chambers are created through overextended preparation, ensuring better stability, faster healing, and enhanced biological integration.

How Healing Chambers Enhance Implant Success

The healing chambers formed in the apical region of the implant site maximize contact with regenerative bone cells while simultaneously reducing mechanical stress on surrounding structures. This design:

Creates micro-spaces for defect blood, bone chips, and stem cells, accelerating healing and tissue regeneration. Encourages faster osseointegration by providing an ideal environment for new bone formation.

Minimizes the risk of overheating during drilling, preserving bone vitality and reducing procedural trauma.



autochthonous bone

Key Benefits of MERIDIAN's Advanced Design

- **Healing Chambers** Foster faster osseointegration and natural bone regeneration by retaining essential biological elements.
- **Reduced Bone Overheating** Overextended drilling techniques minimize friction and heat buildup, preventing bone necrosis.
- Optimized Contact & Stability The controlled void spaces allow the implant to settle naturally into the bone, ensuring maximum primary stability.
- **Enhanced Load Distribution** Reduces stress concentration on cortical bone, increasing implant longevity and performance.
- **Ideal for Challenging Bone Conditions** Provides stronger anchorage in softer or compromised bone while maintaining tissue health.

The Science Behind MERIDIAN's Success

By utilizing a biologically driven design, MERIDIAN implants not only integrate faster but also last longer. The strategic overextended preparation technique ensures that the implant site is optimized for healing, leading to a stronger, more resilient bone-implant interface. This process:

- Increases vascularization for superior bone nourishment.
- Prevents excessive cortical stress, reducing the risk of implant failure.
- Enhances patient comfort by improving post-surgical healing dynamics.

A New Standard in Implantology

MERIDIAN's cutting-edge technology delivers an unparalleled level of precision, healing, and stability. Whether used in challenging bone conditions or standard cases, its design ensures predictable and long-lasting results.

MERIDIAN – Engineering the Future of Implant Succes

MERIDIAN

the implant material of choice

IMPLANT PLACEMENT HAS NEVER BEEN EASIER, FASTER AND SAFER!

Smart, Precise, and Predictable Ceramic Implant Placement

Start placing ceramic implants with confidence and precision, using a structured and well-organized approach. With STEINSOHN's PLANNING Service, you gain access to expert support that enhances safety, efficiency, and predictability in every procedure. Our PLANNING Service is designed to simplify your workflow, allowing you to focus on patient care Simplicity and higest while ensuring optimal outcomes. By combining biological principles with digital precision, we set a new benchmark in modern implantology-minimizing risks and maximizing success. precision in your hand.

A Comprehensive System for Seamless Implant Placement

The SYSTEM includes everything you need for efficient and straightforward late implant placement, ensuring:

- Precise treatment planning for optimized outcomes
- A streamlined digital workflow for accuracy and efficiency lant
- Minimized risks through expert-guided protocols
- Complete instrumentation for a smooth and predictable process

Elevate Your Implantology – Smarter Planning, Superior Results.



Conclusion

MERIDIAN Implants with BIOVERIT Surface – The Future of Implantology

MERIDIAN implants, featuring the innovative BIO-X Bioverit surface, represent the most advanced and biologically harmonious implant system in the world. Unlike titanium, which triggers a chronic inflammatory response due to the release of TNF-a and IL-1ß, ceramic implants are completely neutral to the body-ensuring seamless integration into connective tissue without bone loss or gingival inflammation. BIO-X is the best choise for dental implant surface.

With a near-zero risk of peri-implantitis, MERIDIAN implants overcome one of the biggest challenges in modern implantology. Studies show that 16% of titanium implants fail due to peri implantitis within five years, whereas ceramic implants remain stable, preserving bone and soft tissue health long-term.

By combining cutting-edge biomaterial science with intelligent design, the BIO-X surface enhances osseointegration, ensuring:

- Superior biocompatibility for long-term success
- Minimal inflammation and tissue irritation
- Elimination of peri-implantitis risks
- Unparalleled aesthetics and natural tissue adaptation

Reliable Healing Verification for Ceramic Implants

In the rare cases where ceramic implants do not fully integrate, they often appear clinically stable. The gingiva remains bright pink and keratinized around the tulip area, and the percussion sound is solid, reflecting the density of the ceramic material.

Methods for Confirming Implant Stability

- ISQ Measurement with AnyCheck Stability should be >70
- Periosteum Test Value Should be < 0 (negative)
- Manual Verification A simple, cost-free method using an insertion tool and torque wrench

Step-by-Step Stability Testing

Torque Test at 35 Ncm

- Apply 35 Ncm insertion torque in a clockwise direction (tightening).
- In 99% of cases, the wrench will come loose, and the implant will remain stable.
- In 1% of cases, the implant may turn slightly before the wrench releases, indicating the need for further healing.

Six-Week Healing Period

If slight movement occurs, allow an additional six weeks for osseointegration.

After this period, retest stability at 35 Ncm.

Final Restoration

Only proceed with prosthetic restoration once the implant successfully holds 35 Ncm torque without movement.

ACTIVE DOUBLE Thread® ensures maximum implant retention, preventing micro-movement or implant loosening.







The underlying biology is as follows: the non-infammatory, extremely thin layer of connective tissue can differentiate itself not only in the granulation tissue but also in the bone tissue. Bone tissue emerges from connective tissue by means of mineralization.



Cementing the 2.6 S Line Meridian implant

Preparation of the Ceramic Implant & Abutment

Ensure a Clean Surface:

Thoroughly clean the ceramic implant's internal surface and the fiberglass abutment base to remove any contaminants. Use ultrasonic cleaning with alcohol or chlorhexidine to disinfect both surfaces.

Air Dry & Silica Coating (Optional for Better Adhesion)

Choosing the Right Cement Recommended Cement:

Use a resin-based adhesive cement or self-adhesive dual-cure resin cement for optimal bonding.

Avoid zinc phosphate or polycarboxylate cements, as they do not provide strong adhesion to ceramic and fiberglass.

Popular choices:

- Panavia SA Cement Plus (Kuraray Noritake)
- RelyX™ Unicem 2 (3M ESPE)

Cement Application & Abutment Placement

Apply Cement:

Dispense the dual-cure resin cement inside the implant chamber (avoid overfilling). Alternatively, coat the base of the fiberglass abutment with a thin, even layer of cement.

Insert the Abutment:

Place the fiberglass abutment into the implant carefully, ensuring a precise fit without tilting. Use gentle pressure to seat the abutment fully.

Remove Excess Cement:

Immediately remove excess cement using a microbrush, scaler, or dental floss before curing. Ensure that no cement remains below the gingival margin.



Implant prosthetics

GRINDING THE IMPLANT

Grinding & Adjusting MERIDIAN Implants

MERIDIAN implants are manufactured from high-strength zirconia, making them exceptionally durable while maintaining biocompatibility and optimal osseointegration. Due to their hardness, they are CE-approved for grinding, allowing for precise adaptation without compromising structural integrity.

Use a New Red Ring Diamond Bur

Always use a fresh Red Ring diamond bur to ensure clean and controlled adjustments. Apply maximum water cooling to prevent heat buildup and avoid microfractures. Do not apply excessive pressure—let the bur do the work for a precise, smooth adjustment.

■ Placement Depth for Two-Piece MERIDIAN Implants

Position the implant exactly at gingival level, with a maximum of 0.5 mm subgingival placement. Ensure proper alignment to allow for a seamless transition between implant and restoration while preserving soft tissue health.



Fitting Temporaries & Final Restoration

The fit of long-term temporaries and definitive restorations is crucial to ensure proper function and to prevent complications such as unwanted pressure or orthodontic forces.

Perfect Fit, No Friction.

The edges of both the temporaries and the final restoration must fit precisely but without friction. Any excessive force or misalignment can lead to:

- Orthodontic forces affecting the surrounding bone, potentially causing unwanted bone remodeling.
- Excessive pressure on the implant and prosthesis, leading to stress, micro-movements, or potential failure.

Cementation Protocol.

Long-term temporaries should be cemented using Durelon® (carboxylate cement), which provides secure yet reversible retention. Final restorations must be permanently cemented with a glass ionomer cement, ensuring strong adhesion while preserving biological integration.

Key Considerations for Long-Term Success

- Minimize Heat & Pressure Always use water cooling and avoid excessive force when adjusting zirconia.
- Precision in Fit Ensure a seamless, friction-free adaptation to prevent complications.
- Correct Cement Selection Use Durelon® for temporaries and glass ionomer cement for final restorations.
- **Soft Tissue Preservation** Maintain an ideal implant-gingiva interface for long-term esthetics and stability.

SAS - SMART ABUTMENT SYSTEM

Redefining Efficiency & Precision in Abutment Preparation

The SAS – Smart Abutment System is designed to simplify and optimize abutment preparation, ensuring seamless integration, accuracy, and time efficiency in modern dental practices. Traditional ceramic abutment grinding, trepanning, and restoration fitting can be tedious, requiring extensive chair time and manual adjustments. With SAS, these challenges are eliminated, giving you greater freedom, precision, and predictability in your workflow.

Why Choose SAS?

Less Preparation, More Precision

The SAS system minimizes unnecessary preparation steps, allowing for faster and more precise abutment shaping. By optimizing the preparation process, dentists can achieve superior fit and function with less manual intervention.

- Pre-calibrated design for accurate, repeatable results.
- Minimal grinding required, reducing the risk of abutment damage.
- Perfectly tailored fit with reduced chair time.

Time-Saving Efficiency

With SAS, you can significantly streamline the workflow for ceramic restorations. The system ensures a predictable and reliable fit, eliminating the need for excessive adjustments and remakes.

- Reduces preparation time by up to 50% compared to conventional methods.
- Eliminates unnecessary steps, improving patient comfort and appointment efficiency.
- Enhances practice productivity, allowing for more procedures in less time.

Seamless Integration with Ceramic Restorations

Designed for aesthetic excellence and biomechanical stability, SAS ensures that restorations fit naturally and securely without excessive force or stress. This allows for:

- Optimal gingival adaptation, reducing irritation and inflammation
- Precise alignment with surrounding teeth, maintaining natural occlusion
- Enhanced durability by preventing excessive pressure on ceramic structures

Biocompatibility & Long-Term Success

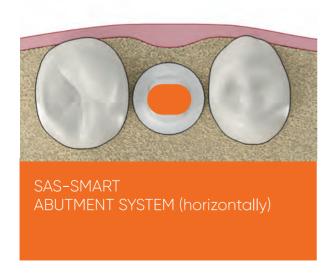
SAS is engineered to work harmoniously with ceramic materials, ensuring high biocompatibility and long-term stability. The system supports ideal force distribution, reducing the risk of stress fractures, micro-movements, and implant failure.

- Reduces risk of abutment fractures due to improper grinding
- Ensures secure bonding, preventing debonding or misalignment over time
- Supports a healthier oral environment, minimizing complications
- The Future of Abutment Preparation

With SAS, you gain the freedom to work smarter, not harder. Whether you are fitting single-unit crowns, bridges, or complex restorations, the SAS Smart Abutment System provides unmatched precision, efficiency, and reliability.

- Less Preparation, More Precision
- Save Time Without Compromising Accuracy
- Designed for Seamless Integration

Upgrade to SAS – The Smarter, Faster, and More Precise Way to Work.





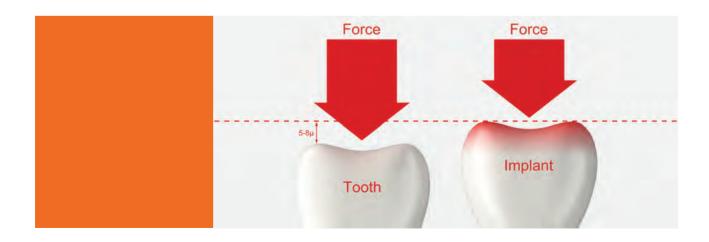
OCCLUSION DESIGN

Optimized Occlusion for Implant-Supported Crowns

Achieving proper occlusal balance between natural teeth and implant-supported restorations is essential for long-term implant success and prosthetic durability. Unlike natural teeth, which can intrude 5-8um under load, dental implants are rigidly anchored in the bone without a periodontal ligament, making them less adaptive to occlusal forces.

Why Occlusion Must Be Adjusted for Implants

If an implant-supported crown is designed with the same occlusion as a natural tooth, it would experience excessive stress, leading to overloading, material fractures, or even implant failure over time. To prevent this, the occlusion of implant crowns is adjusted by approximately 5-8um to compensate for the natural tooth's intrusion.



How to Achieve the Perfect Occlusal Balance

Use a 5–8µm Occlusion Foil:

Place the thin occlusion foil between the natural tooth and implant-supported crown.

Ask the patient to bite lightly. The foil should "hold" on the natural tooth but not on the implant crown.

Verify Under Firm Bite:

When the patient bites firmly, the foil should now "hold" on the implant crown, ensuring even force distribution across the dentition

Benefits of Proper Occlusal Adjustment

- Prevents overloading of the implant crown
- Protects against porcelain fractures & prosthetic wear
- Ensures even force distribution for long-term success
- Reduces the risk of bone loss or implant failure due to excessive stress

Precision Matters

Fine-Tune Your Occlusion for Predictable, Long-Lasting Implant Success.





Drill - Free

The lastest generation osteotome with DLC coating

SMF Technology – Advanced Implant Site Preparation

The SMF system revolutionizes implant site preparation by enhancing precision, efficiency, and bone preservation.

Optimized Osteotome Tip Design

The variable conicity of the osteotome tip minimizes cortical bone engagement, ensuring a gentler, more controlled expansion of the implant site.

■ Diamond-Like Carbon (DLC) Coating

The DLC coating significantly reduces friction, allowing the instrument to glide smoothly through bone with minimal resistance, enhancing both handling and tactile feedback.

■ Efficient Bone Shaping & Condensation

The osteotome expands, shapes, and condenses the bone, creating an ideal implant bed while preserving bone integrity and stimulating natural healing.

Less Trauma. More Precision. Superior Osseointegration. SMF – The Next Generation of Bone Preparation.











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STEINSOHN EDUCATION



