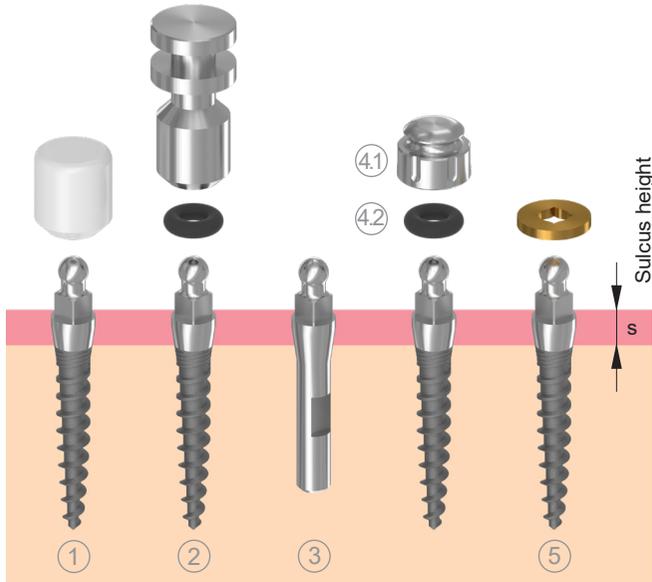


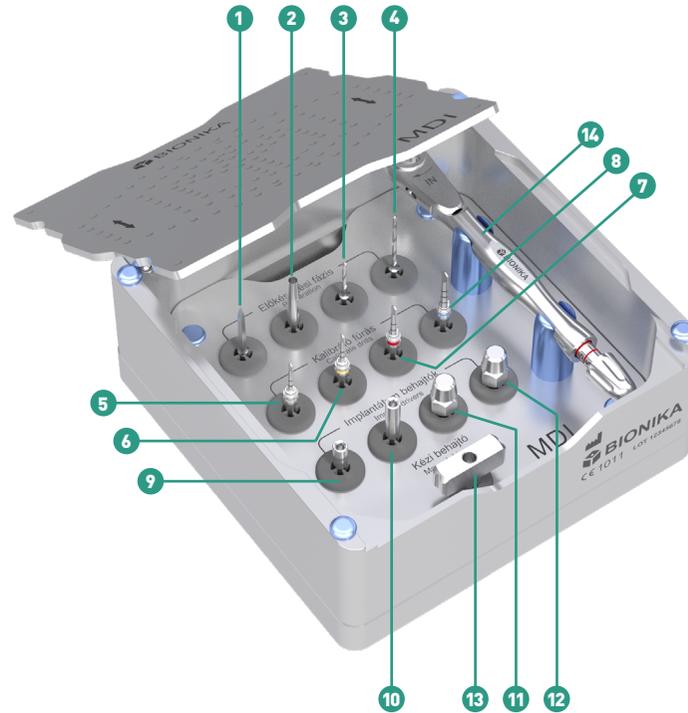
Components of the MDI Implant System

The primary purpose of the MDI implant system is the fixation of removable dental prostheses by means of resilient, snap-retained attachments.



Type	Characteristic dimensions (mm)			
	S Sulcus height		F Head height	
	2	4	7	9
1 Ball retentive cap	●	●		
2 Impression coping			●	●
3 Technical implant				
4.1 Metal housing				
4.2 Silicone rubber O-ring				
5 Metal spacer ring				

MDI Surgical Instruments



Designation	Description
1 Lance drill	D2,33 x L15
2 Gingival punch	D2,0 x L24,5
3 Pilot surgical drills	D1 x L18
4 Pilot surgical drills	D1,1 x L11
5 Osteotomy calibration drills	D1,4 x L11
6 Osteotomy calibration drills	D1,7 x L11
7 Osteotomy calibration drills	D2,0 x L11
8 Osteotomy calibration drills	D2,5 x L11
9 Mechanical implant drivers	4Lt1,65 x L5
10 Mechanical implant drivers	4Lt1,65 x L10
11 Manual implant drivers	4Lt1,65 x L5
12 Manual implant drivers	4Lt1,65 x L10
13 T-wrench	4Lt1,65 x L20
14 Ratchet torque wrench	

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Micro Dental Implant
MDI



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Company Profile

BIONIKA Medline Ltd. is a Hungarian, family-owned company founded in 1989. The company has more than 35 years of experience in the development, manufacturing, and distribution of medical instruments and implants.

BIONIKA operates simultaneously as a research and development organization, manufacturer, and distributor in the fields of dentistry, oral and maxillofacial surgery, traumatology, orthopedics, and rehabilitation.

The term "BIONIKA" represents a scientific approach at the intersection of biology, technology, and electronics, integrating these disciplines throughout our research and development activities.

Clinical and Technological Experience: Our success is supported by the continuous processing, integration, and application of clinical and technological experience. Feedback from clinical use is incorporated into development processes and traced back to the manufacturing base, resulting in solutions and designs that best meet user requirements and are continuously improved.

Development: The owners of BIONIKA place strong emphasis on continuous product and technology development. Our products are developed through close collaboration between physicians and engineers, ensuring consistently high international quality standards and practical usability.

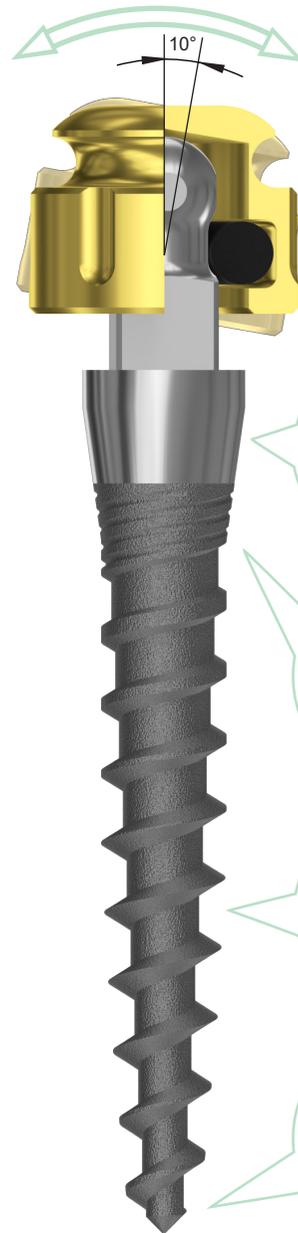
Quality Assurance: The quality expected by our customers is guaranteed by design, manufacturing, and quality management processes compliant with harmonized European Union regulations.

BIONIKA Medline Ltd. operates in accordance with EN ISO 9001 and ISO 13485 quality management systems. All products are CE marked.

Warranty: Following implant placement, BIONIKA assumes the risk of the osseointegration process and provides a replacement warranty within one year of purchase, regardless of causal relationships.

In addition, our implant products are covered by a long-term warranty of 10 years.

Characteristics of the MDI Implant System



The MDI Implant System is indicated for removable dental prostheses in cases of thin bone structure with higher-than-average bone density.

Design and Application Features:

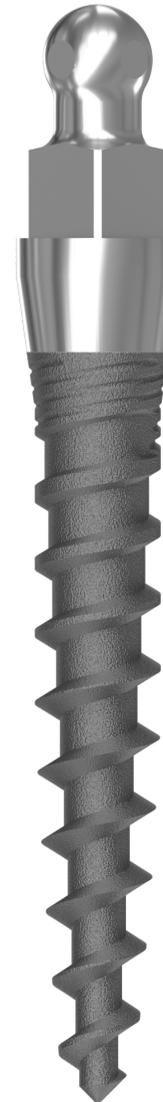
- Minimally invasive procedure with transgingival surgical technique
- Resilient connection between the implant and the prosthesis
- High primary stability with immediate loading capability
- (insertion torque ≥ 35 Ncm)
- Imtec MDI compatibility

The implant features a polished cervical surface adapted to sulcus heights of 2–4 mm, allowing appropriate implant selection according to soft tissue conditions.

At the cervical region of the implant screw, a conical cycloidal thread profile provides optimal resistance to dynamic loading. The thread depth gradually increases along the implant body.

The thread design is well adapted to both cancellous and cortical bone structures. The self-compressing, self-cutting, and self-locking conical thread form progressively deepens in the middle section of the implant screw.

Self-cutting thread edges with anti-rotation function are incorporated (for 2.9 mm diameter implants).



MDI Implant System Size Range

Sulcus height: S = 2–4 mm

Diameter D (mm)	Sulcus height S (mm)	Insertion length L (mm)			
		9	11	13	15
ø 1,8	2	●	●	●	
	4				
ø 2,1	2	●	●	●	
	4				
ø 2,4	2	●	●	●	●
	4				
ø 2,9	2	●	●	●	●
	4				

