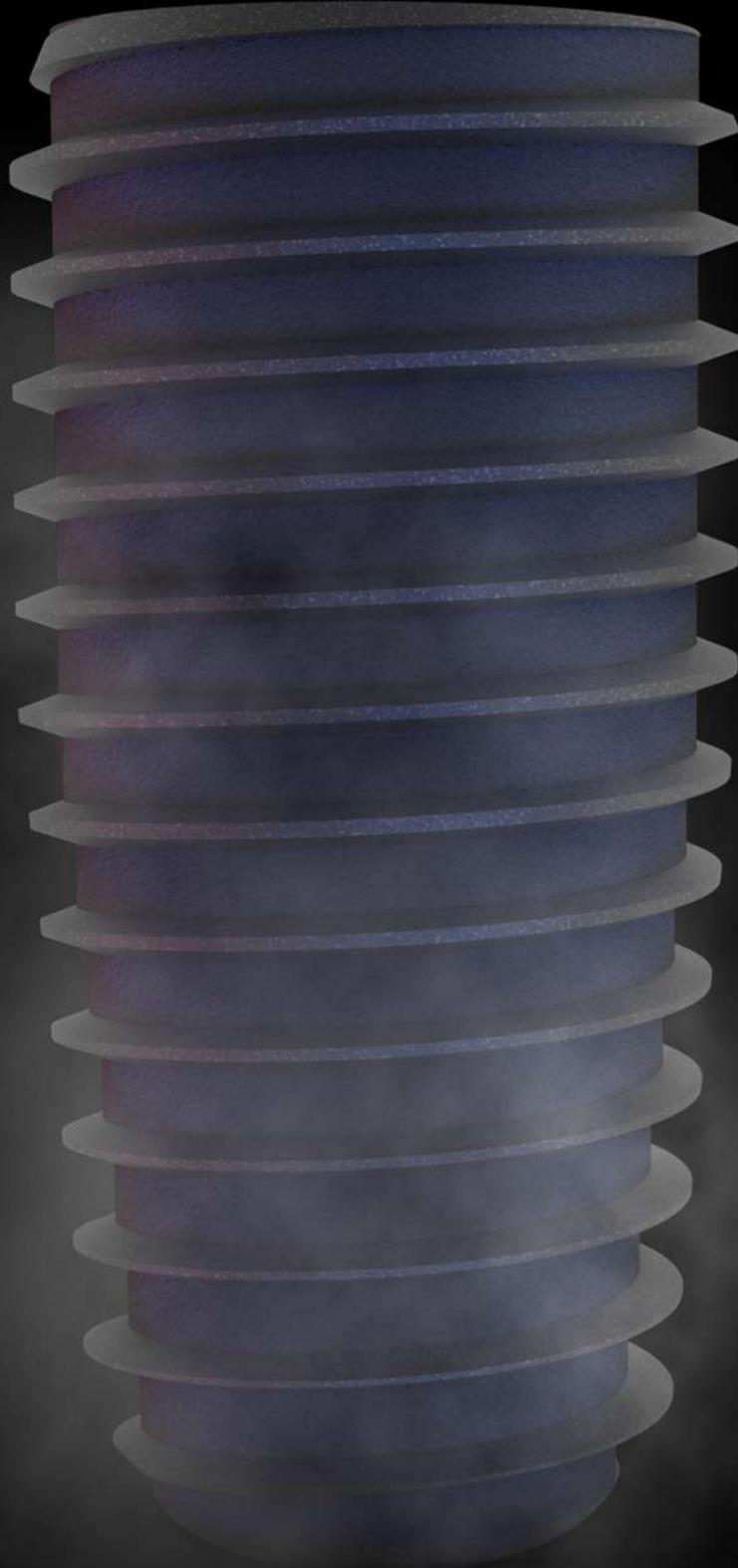


**MEDAK**  
**TITAN**  
I M P L A N T



## OUR MISSION

Our goal is to work as a brand that respects our employees and customers, and to maximize our position in the industry by adhering to legal and ethical values.

## OUR VISION

As Medak Dental Medical, we strive to deliver innovative technologies and content in the field of Dentistry to our users within our country.

## OUR PRINCIPLES

- Promoting a healthy and qualified service.
- Emphasizing productivity and continuous improvement.
- Demonstrating respect for human rights.
- Prioritizing integrity and maintaining high-quality standards.

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**LEAVE A MARK  
ON THE WORLD**

# TITAN IMPLANT



The rate and quality of osseointegration of dental implants are closely related to the surface roughness and composition. Currently, titanium and titanium alloys are widely accepted as the materials that offer the most effective connection with bone. The primary objective of performing surface treatments is to achieve surface topography and surface energy compatibility. Consequently, wetting ability, cell proliferation, cell growth, and bone formation are enhanced, thereby expediting the osseointegration process. The process of osseointegration occurs in two distinct stages. During the initial stage, the implant material comes into direct contact with the bone. Throughout this period, no organic structure called an artificial binding structure is present. Consequently, mechanical interaction between the implant and the surrounding tissue takes precedence due to the absence of such a binding structure. In the second stage, the titanium implant, which is observed in the osseointegration process, becomes enveloped by soft fibrous tissue. It is crucial for the capsule structure surrounding the dental implant to possess the appropriate thickness and structure, enabling it to bear the loads exerted on the implant and be firmly affixed to the bone in a compatible manner. These two processes play a pivotal role in preventing implant loss and ensuring long-term performance. On SLA surfaces, the duration of the osseointegration period typically lasts from 6 to 8 weeks.

## IMPLANT DESIGN



Implant SLA surface SEM image

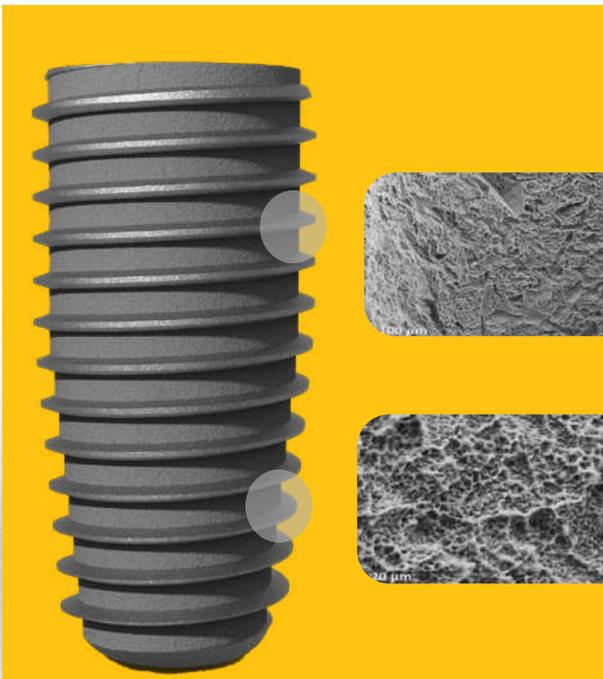
### SLA SURFACE

Dental implant SLA surface is a type of surface treatment that is commonly used in implant dentistry.

This surface treatment involves using a sandblasting and acid-etching technique to create a rough and irregular surface on the implant.

The purpose of this rough surface is to promote osseointegration, which is the process by which the implant fuses with the surrounding bone. The rough surface of the SLA implant provides a greater surface area for bone cells to attach and grow, leading to a stronger and more stable implant.

Additionally, the SLA surface also helps enhance the stability of the implant during the healing process and reduces the risk of implant failure. Overall, the SLA surface is an important factor to consider when choosing a dental implant, as it plays a significant role in the long-term success of the implant procedure. □



## SLA SURFACE

The purpose of soft threads is to enhance the initial stability and long-term success of the implant.

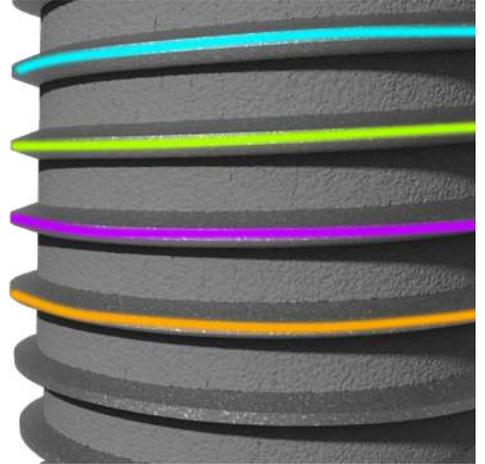
Soft threads provide several benefits:

1. **Improved initial stability:** Soft threads help the implant to grip the surrounding bone more effectively during the initial healing phase.

This stability is crucial for successful osseointegration, which is the process by which the implant fuses with the jawbone.

2. **Enhanced bone preservation:** The flexible nature of soft threads allows for better distribution of forces during chewing and biting. This helps to minimize stress on the surrounding bone, reducing the risk of bone loss over time.

3. **Improved bone-to-implant contact:** Soft threads can promote a higher surface area for contact between the implant and the bone. This can lead to better integration and provide a stronger foundation for the replacement tooth or prosthesis.□

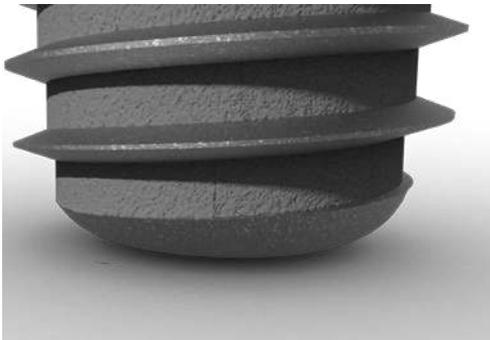


## OPEN THREAD

Open thread dental implant has a higher success rate compared to smooth surface implants.

The open thread design also allows for easier placement and positioning of the implant during surgery.

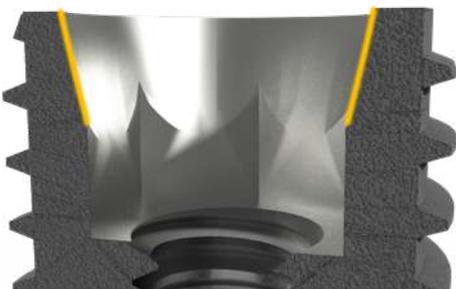
Overall, open thread dental implants offer numerous benefits and are a popular choice for many patients in need of tooth replacement.



This type of implant provides stability and support to the surrounding teeth, resulting in a more natural and comfortable bite. With its numerous benefits, rounded apex dental implant is becoming a popular choice for patients seeking tooth replacement options.

## 11° HEX TAPER CONNECTION

The hexagonal shape of the connection allows for easy placement and removal of the prosthetic components, making it a popular choice among dentists. With this advanced technology, patients can achieve long-term success and natural-looking outcomes. Whether you need a single tooth replacement or a complete oral restoration, the 11° Hex Taper Connection Dental implant is a reliable choice that can improve your oral health and restore your smile.



## PLATFORM SWITCH

The Platform Switch has become increasingly popular in recent times. The key benefit of this configuration is that it aids in maintaining the bone surrounding the implant, resulting in enhanced long-term stability.

This design involves utilizing a smaller diameter implant within a larger diameter abutment. Moreover, the platform switch design also contributes to enhancing the visual appeal of the final restoration. In summary, the Platform Switch dental implant provides a range of advantages and is an excellent choice for individuals requiring tooth replacement.



## TITANIUM GRADE 4



Titanium grade 4 dental implant is made from a titanium alloy known for its high strength and durability, which makes it a popular choice among dental professionals.

This material used in these implants is biocompatible, meaning it is well tolerated by the body and does not cause any adverse reactions.



# MEDAK TITAN

## SLA Surface

This system demonstrates a highly successful performance in terms of healing.

The surface of the implant has the same degree of roughness throughout.

## Soft Thread

Soft threads are small grooves or indentations on the surface of the dental implant screw.

These threads are designed to have a softer, more flexible composition compared to the rest of the implant.

## Bone Level Implant

It is designed to provide stability and support for dental prostheses, such as crowns or bridges. The implant is surgically inserted into the jawbone, where it fuses with the surrounding bone tissue over time.

## Rounded Apex

This design helps to minimize trauma to the surrounding tissues during the implantation process. The rounded apex also allows for better distribution of forces and reduces the risk of bone resorption. Additionally, this type of implant provides stability and support to the surrounding teeth, resulting in a more natural and comfortable bite.

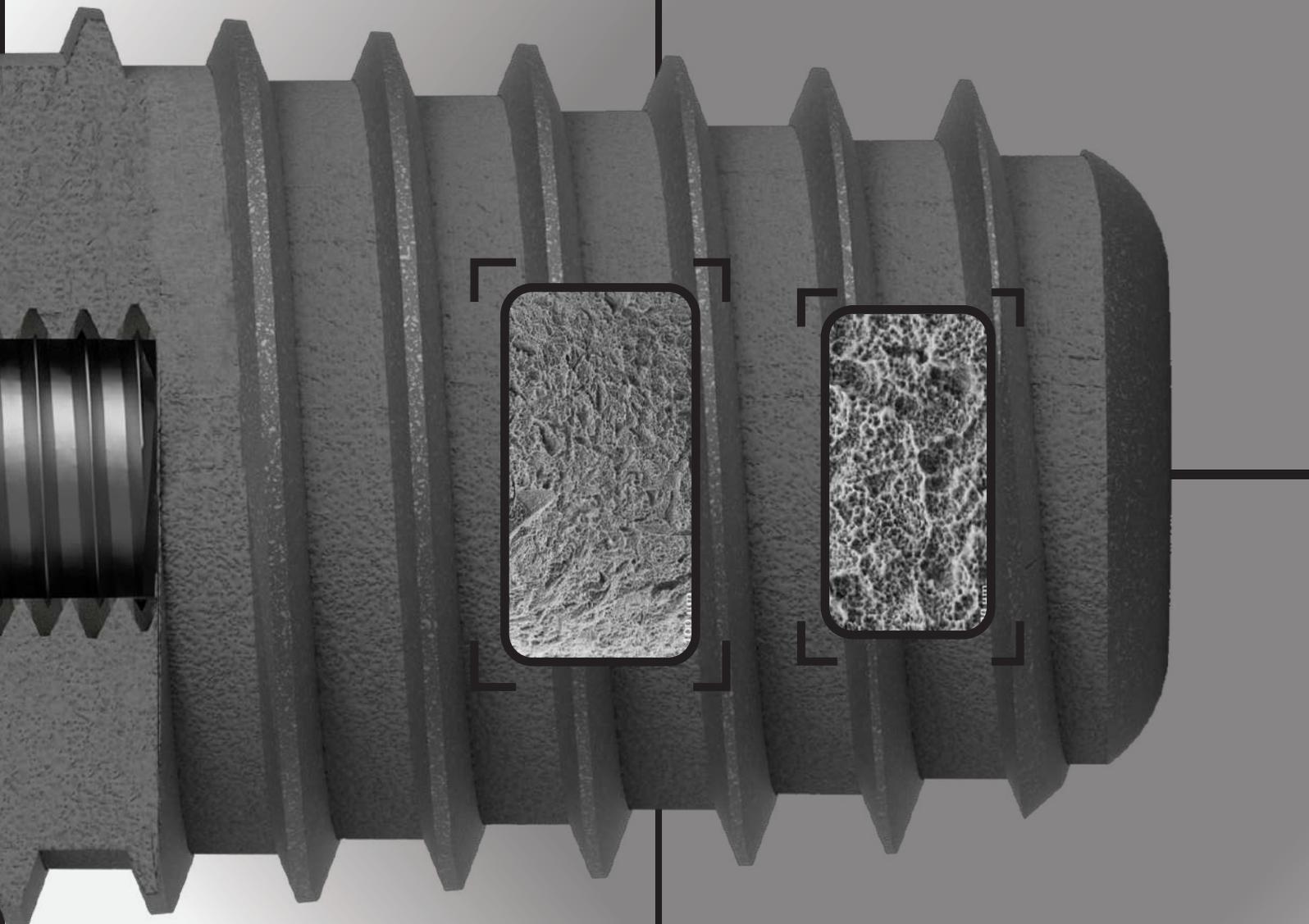


## Open Thread

Open thread dental implant has a rough surface that promotes better integration with the surrounding bone, ensuring a more stable and secure implant.

## Platform Switch

The Platform Switch has become increasingly popular in recent times. This design involves utilizing a smaller diameter implant within a larger diameter abutment.



## 11° Hex Taper Connection

The 11° Hex Taper Connection offers a secure and stable base for dental prosthetics, ensuring a tight and precise fit between the implant and the abutment to reduce the risk of small movements and potential complications.

## Titanium Grade 4

Titanium grade 4 dental implant is made from a titanium alloy known for its high strength and durability, which makes it a popular choice among dental professionals.

	D (Ø)	L
3.5	3.5	6
3.5	3.5	8
3.5	3.5	10
3.5	3.5	12
3.5	3.5	14



	D (Ø)	L
4.0	4.0	6
4.0	4.0	8
4.0	4.0	10
4.0	4.0	12
4.0	4.0	14



	D (Ø)	L
4.5	4.5	6
4.5	4.5	8
4.5	4.5	10
4.5	4.5	12
4.5	4.5	14



	D (Ø)	L
5.0	5.0	6
5.0	5.0	8
5.0	5.0	10
5.0	5.0	12
5.0	5.0	14



# PROSTHETIC PARTS



Gingiva Former



Analog



Closed Type  
Impression Coping



Opened Type  
Impression Coping



Straight  
Abutment



Angled  
Abutment



Aesthetic  
Abutment



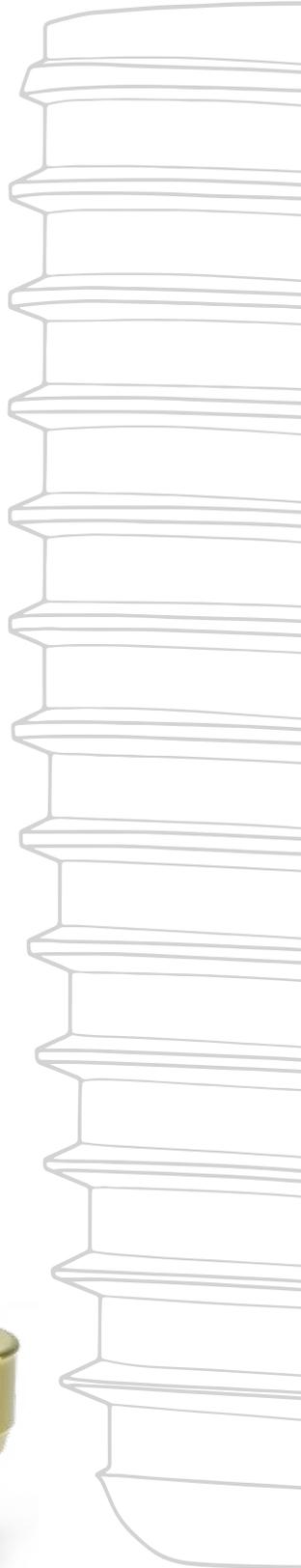
Plastic  
Abutment



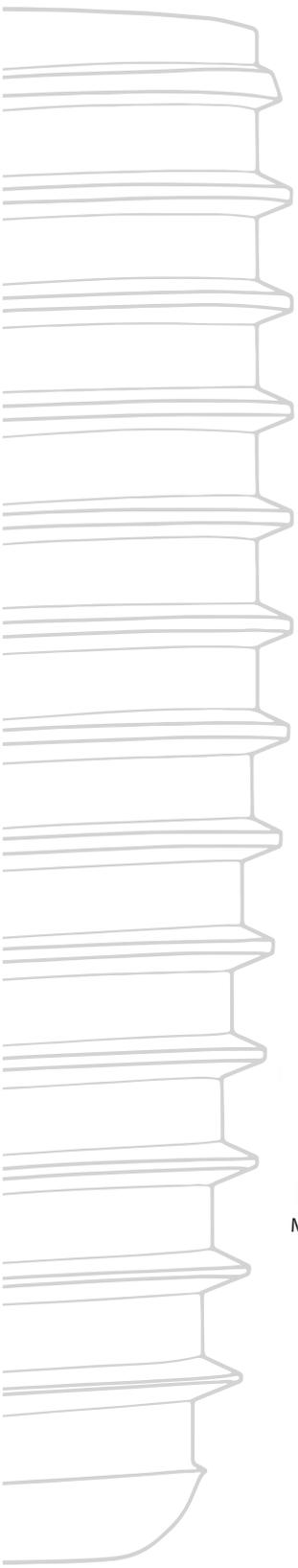
Ball Attachment  
Abutment



Titan-L  
Abutment



# DIGITAL PROSTHETIC PARTS



Gingiva Former



Multi-Unit Abutment



Angled Multi-Unit Abutment



Multi-Unit Analog



T-Base Abutment



Scanbody



Premill Abutment



Plastic Cylinder



Temporary Cylinder



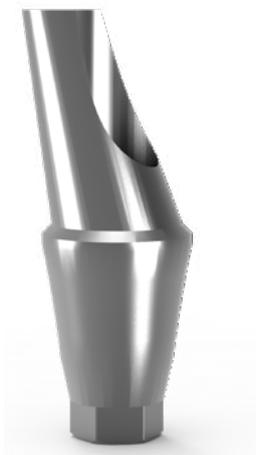
## Straight Abutment



### Gingival Height

1
2
3
4
5

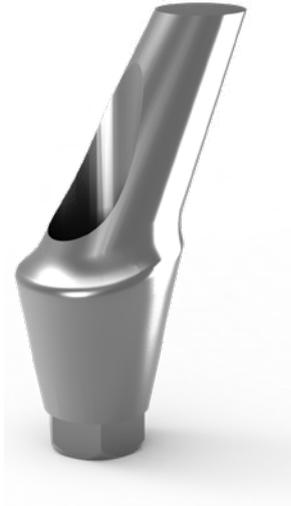
## Angled Abutment



### Gingival Height

1
2
3
4
5

## Aesthetic Abutment



### Gingival Height

1
2
3
4
5

## Ball Attachment



### Gingival Height

1
2
3
4
5

## Open Type Impression Coping



### Gingival Height

1
2
3
4
5

## Closed Type Impression Coping



### Gingival Height

1
2
3
4
5

## Analog



### Gingival Height

1
2
3
4
5

## Abutment Screw



### Diameter Ø

1
2
3
4
5

## Multi Unit Abutment



### Gingival Height

<b>1</b>
<b>2</b>
<b>3</b>
<b>4</b>
<b>5</b>

## Multi Unit Impression Coping



### Gingival Height

1
2
3
4
5

## Temporary Cylinder



### Gingival Height

1
2
3
4
5

## T- Base Abutment



### Gingival Height

1
2
3
4
5

## Multi Unit Analog



### Gingival Height

1
2
3
4
5

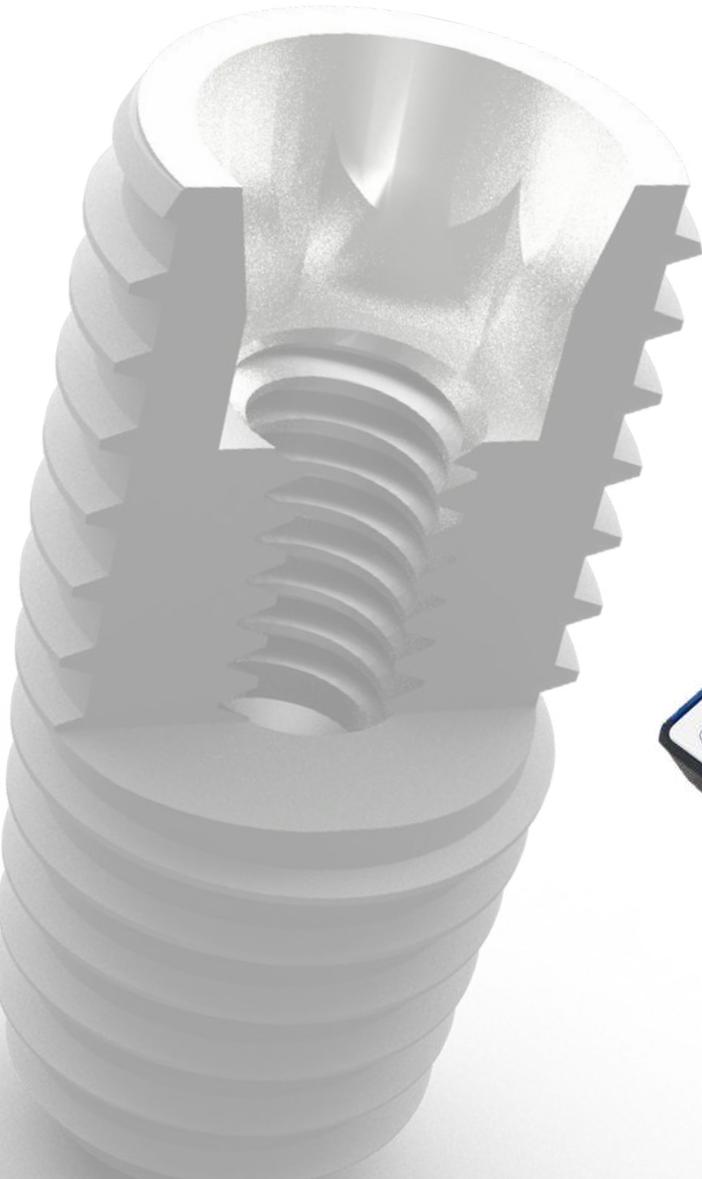
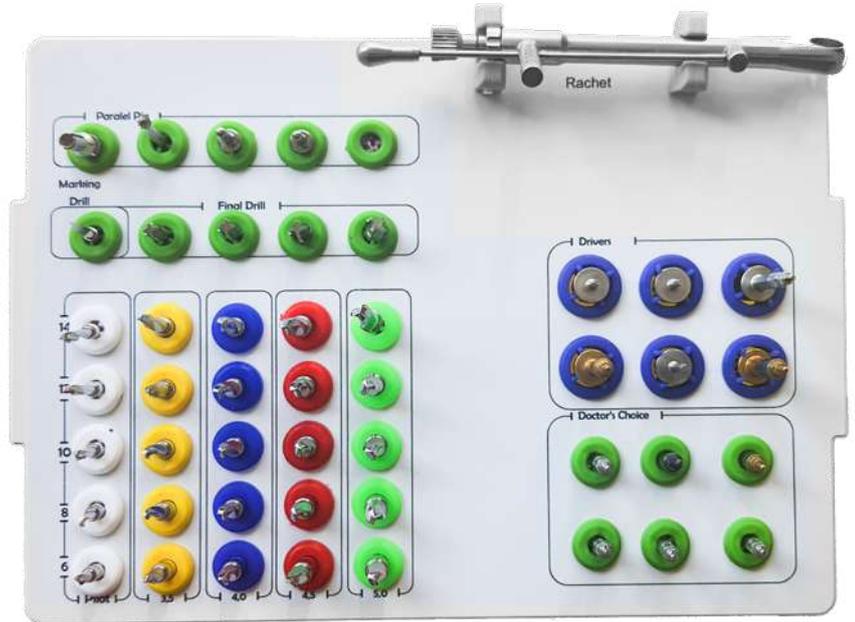
## Scanbody



## Premill Abutment



# SURGICAL KIT



**SUCCESS IS THE  
RESULT OF  
CONSISTENT WORK**



# MEDAK TITAN

