

medartis

PRECISION IN FIXATION

SURGICAL TECHNIQUE

# Bone Fixation System 0.9/1.2, 1.5



**MODUS**

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For further information regarding the MODUS product line visit [www.medartis.com](http://www.medartis.com)

# Introduction

## Product Materials

Product	Material
Screws	Pure Titanium, titanium alloy
Instruments	Stainless steel (handles: silicone), PEEK, aluminum, titanium, Nitinol
Containers	Stainless steel, aluminum, PEEK, polyphenylsulfone, polyurethane, silicone

## Indications

### MODUS

Maxillofacial fractures, osteotomies and reconstructive procedures

- 0.9/1.2; 1.5 Bone Fixation System
- fixation and stabilization of bone grafts for alveolar ridge augmentation and for temporary stabilization and fixation of barrier membranes used in guided bone regeneration

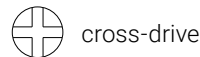
## Contraindications

- Preexisting or suspected infection at or near the implantation site
- Known allergies and/or hypersensitivity to implant materials
- Inferior or insufficient bone quality to securely anchor the implant
- Patients who are incapacitated and/or uncooperative during the treatment phase
- Blocking of growth plates with plates and screws

## Color Coding

System Size	Color Code
0.9	Red
1.2	Red
1.5	Green

## Symbols



# Instrument Application

## General Instrument Application

### Drilling

Color-coded twist drills are available for every MODUS system size.

System Size	Color Code
0.9	Red
1.2	Red
1.5	Green

#### Core Hole Drills

Drills for screws  $\varnothing$  0.9 mm

Dental	Drill stop
two red rings and one yellow ring	

M-3121	8 mm
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Drill  $\varnothing$  0.75 mm

Dental	Drill stop
two red rings and one yellow ring	

M-3411	12 mm
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Drill  $\varnothing$  0.75 mm



M-3121



M-3411

Drills for screws  $\varnothing$  1.2 mm

Dental	Drill stop
four red rings	

M-3351	
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Drill $\varnothing$ 1.0 mm	8 mm
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Dental	Drill stop
four red rings	

M-3421	16 mm
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Drill  $\varnothing$  1.0 mm



M-3351



M-3421

Drills for screws  $\varnothing$  1.5 mm

<b>Dental</b>	<b>Drill stop</b>
---------------	-------------------

two green rings	
-----------------	--

M-3222	9 mm
--------	------

Drill  $\varnothing$  1.2 mm



<b>Dental</b>	<b>Drill stop</b>
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two green rings and one yellow ring	
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M-3292	16 mm
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Drill  $\varnothing$  1.25 mm



### Gliding Hole Drills

Drill for screws  $\varnothing$  0.9 mm

<b>Dental</b>	<b>Drill stop</b>
---------------	-------------------

four red rings	
----------------	--

M-3351	
--------	--

Drill $\varnothing$ 1.0 mm	8 mm
----------------------------	------



Drill for screws  $\varnothing$  1.2 mm

<b>Dental</b>	<b>Drill stop</b>
---------------	-------------------

two green rings and one yellow ring	
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M-3292	16 mm
--------	-------

Drill  $\varnothing$  1.25 mm



Drill for screws  $\varnothing$  1.5 mm

<b>Dental</b>	<b>Drill stop</b>
---------------	-------------------

three green rings	
-------------------	--

M-3302	20 mm
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Drill  $\varnothing$  1.5 mm



## Screw Pick-Up

The appropriate screwdriver must be chosen for the corresponding screw diameter. 0.9/1.2 mm screws feature a cross-drive connection screwdriver with a tension sleeve for screw retention. 1.5 mm screws can either be used with a screwdriver featuring the patented selfholding technology HexaDrive or with a cross-drive screwdriver in combination with a tension sleeve for screw retention.

### Cross-drive screws with tension sleeve

To remove the screws from the implant container, insert the appropriate screwdriver blade (M-2511 for 0.9/1.2 mm screws, M-2512 for 1.5 mm screws) perpendicularly into the screw head of the desired screw.

Slide the tension sleeve (M-2551 for 0.9/1.2 mm screws, M-2552 for 1.5 mm screws) forward to secure the screw.

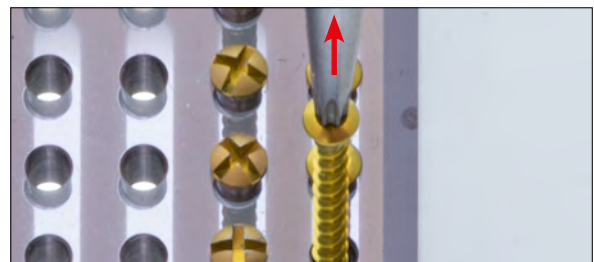
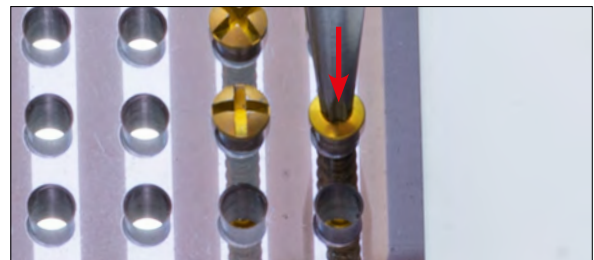
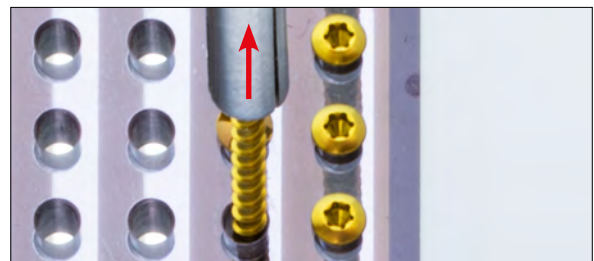
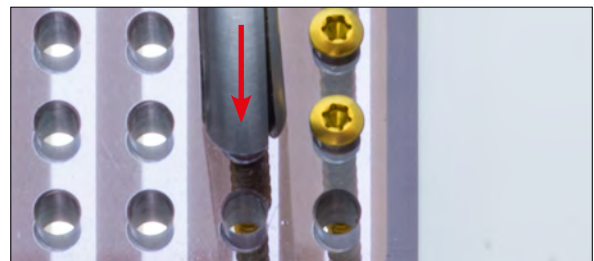
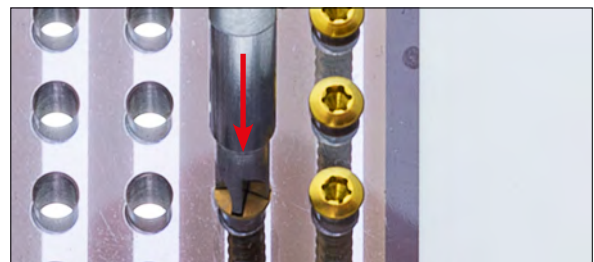
Pick up the screw from the screw container.

### 1.5 mm HexaDrive screws

To remove the screws from the implant container, insert the screwdriver blade (M-2662) perpendicularly into the screw head of the desired screw and pick up the screw with axial pressure.

### Caution

Vertically extract the screw from the compartment. Picking up the screw repeatedly may lead to permanent deformation of the self-retaining area of the HexaDrive inside the screw head. Therefore, the screw may no longer be able to be picked up correctly. In this case, a new screw has to be used.



# Explantation

## Explantation of Cortical Screws

Use the appropriate screwdrivers to remove the screws to explant MODUS implants. It is recommended that the implants are removed by using only original MODUS instruments.

### **Caution**

When removing the screws, ensure that any bone ingrowth in the screw head has been removed, that the screwdriver/screw head connection is aligned in axial direction, and that a sufficient axial force is used between blade and screw.

# Implants, Instruments and Containers

## 0.9 Cortical Screws, Cross-Drive

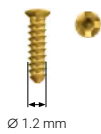
Material: Titanium (ASTM F67)



Length	Art. No.	Piece/Pkg	Art. No.	Piece/Pkg
5 mm	M-5100.05/1	1	M-5100.05	5
6 mm	M-5100.06/1	1	M-5100.06	5
7 mm	M-5100.07 / 1	1	M-5100.07	5
8 mm	M-5100.08 / 1	1	M-5100.08	5
9 mm	M-5100.09 / 1	1	M-5100.09	5
10 mm	M-5100.10 / 1	1	M-5100.10	5

## 1.2 Cortical Screws, Cross-Drive

Material: Titanium (ASTM F67)



Length	Art. No.	Piece/Pkg	Art. No.	Piece/Pkg
5 mm	M-5110.05/1	1	M-5110.05	5
6 mm	M-5110.06/1	1	M-5110.06	5
8 mm	M-5110.08 / 1	1	M-5110.08	5
10 mm	M-5110.10 / 1	1	M-5110.10	5
12 mm	M-5110.12 / 1	1	M-5110.12	5
14 mm	M-5110.14 / 1	1	M-5110.14	5

## 1.5 Cortical Screws, Cross-Drive

Material: Titanium (ASTM F67)

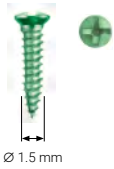


Length	Art. No.	Piece/Pkg	Art. No.	Piece/Pkg
5 mm	M-5120.05 / 1	1	M-5120.05	5
6 mm	M-5120.06 / 1	1	M-5120.06	5
7 mm	M-5120.07 / 1	1	M-5120.07	5
8 mm	M-5120.08 / 1	1	M-5120.08	5
9 mm	M-5120.09 / 1	1	M-5120.09	5
10 mm	M-5120.10 / 1	1	M-5120.10	5
12 mm	M-5120.12 / 1	1	M-5120.12	5
14 mm	M-5120.14 / 1	1	M-5120.14	5
16 mm	M-5120.16 / 1	1	M-5120.16	5



### 1.5 SpeedTip Screws, Self-Drilling, Cross-Drive

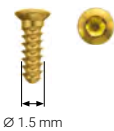
Material: Titanium Alloy (ASTM F136)



Length	Art. No.	Piece / Pkg	Art. No.	Piece / Pkg
5 mm	M-5121.05 / 1	1	M-5121.05	5
6 mm	M-5121.06 / 1	1	M-5121.06	5
7 mm	M-5121.07 / 1	1	M-5121.07	5
9 mm	M-5121.09 / 1	1	M-5121.09	5

### 1.5 Cortical Screws, HexaDrive 4

Material: Titanium Alloy (ASTM F136)



Length	Art. No.	Piece/Pkg	Art. No.	Piece/Pkg
5 mm	M-5220.05 / 1	1	M-5220.05	5
6 mm	M-5220.06 / 1	1	M-5220.06	5
7 mm	M-5220.07 / 1	1	M-5220.07	5
8 mm	M-5220.08 / 1	1	M-5220.08	5
9 mm	M-5220.09 / 1	1	M-5220.09	5
10 mm	M-5220.10 / 1	1	M-5220.10	5
11 mm	M-5220.11 / 1	1	M-5220.11	5
12 mm	M-5220.12 / 1	1	M-5220.12	5
13 mm	M-5220.13 / 1	1	M-5220.13	5
14 mm	M-5220.14 / 1	1	M-5220.14	5
16 mm	M-5220.16 / 1	1	M-5220.16	5

### 1.5 SpeedTip Screws, Self-Drilling, HexaDrive 4

Material: Titanium Alloy (ASTM F136)



Length	Art. No.	Piece / Pkg	Art. No.	Piece / Pkg
5 mm	M-5223.05 / 1	1	M-5223.05	5
6 mm	M-5223.06 / 1	1	M-5223.06	5
7 mm	M-5223.07 / 1	1	M-5223.07	5
9 mm	M-5223.09 / 1	1	M-5223.09	5

### Twist Drills for Screws Ø 0.9 mm (Core Hole 0.9 Screws)



M-3121



M-3411

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3121	0.75	8 mm	37 mm	Dental	1
M-3411	0.75	12 mm	37 mm	Dental	1

### Twist Drill for Screws Ø 0.9 mm (Gliding Hole 0.9 Screws)



M-3351

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3351	1.0	8 mm	37 mm	Dental	1

### Twist Drills for Screws Ø 1.2 mm (Core Hole 1.2 Screws)



M-3351



M-3421

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3351	1.0	8 mm	37 mm	Dental	1
M-3421	1.0	16 mm	37 mm	Dental	1

### Twist Drill for Screws Ø 1.2 mm (Gliding Hole 1.2 Screws)



M-3292

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3292	1.25	16 mm	37 mm	Dental	1

### Twist Drills for Screws Ø 1.5 mm (Core Hole 1.5 Screws)



M-3222



M-3292

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3222	1.2	9 mm	37 mm	Dental	1
M-3292	1.25	16 mm	37 mm	Dental	1

### Twist Drill for Screws Ø 1.5 mm (Gliding Hole 1.5 Screws)



M-3302

Art. No.	Ø	Stop	Length	Drill Shaft End	Piece/Pkg
M-3302	1.5	20 mm	37 mm	Dental	1

### Screwdriver 0.9 / 1.2 (Single Components)



M-2551



M-2501



M-2511

Art. No.	Interface	Description	Length	Piece / Pkg
M-2551		tension sleeve for M-2511		1
M-2501		screwdriver handle		1
M-2511		screwdriver blade for M-2551	57 mm	1

### Screwdriver 1.5 (Single Components)



M-2552



M-2502



M-2662



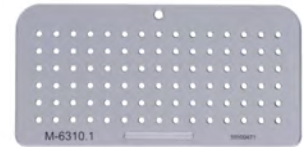
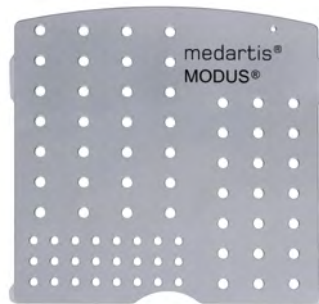
M-2512

Art. No.	Interface	Description	Length	Piece / Pkg
M-2552		tension sleeve for M-2512		1
M-2502		screwdriver handle		1
M-2662		screwdriver blade, self-holding	69 mm	1
M-2512		screwdriver blade for M-2552	69 mm	1

## Container



M-6310



M-6310.1

Art. No.	Description	Dimension (W x L)	Piece / Pkg
M-6310	empty container inkl. Lid	118 x 130 mm	1
M-6310.1	screw rack for 0.9/1.2 mm screws	34 x 68 mm	1
M-6310.2	screw rack for 1.5 mm screws	34 x 68 mm	1

## Sticker, Large

1.2 M-5110.xx

Art. No.	Description	Color	Quantity
M-6571.01	1.2 M-5110.xx	red	1
M-6571.02	0.9 M-5100.xx	red	

## Sticker, Large

1.5 M-5220.xx

Art. No.	Description	Color	Quantity
M-6572.12	1.5 M-5120.xx	green	1
M-6572.14	1.5 M-5220.xx	green	1
M-6572.18	1.5 M-5121.xx	green	
M-6572.19	1.5 M-5223.xx	green	

## Sticker, Small



Art. No.	Description	Color	Quantity
A-6095.05	5	black	
A-6095.06	6	black	
A-6095.07	7	black	
A-6095.08	8	black	3
A-6095.09	9	black	
A-6095.10	10	black	3
A-6095.11	11	black	
A-6095.12	12	black	3
A-6095.13	13	black	
A-6095.14	14	black	3
A-6095.16	16	black	

## Articles available on request

M-5100.02  
 M-5100.02/1  
 M-5100.03  
 M-5100.03/1  
 M-5100.04  
 M-5100.04/1

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