medartis®

PRECISION IN FIXATION

PRODUCT INFORMATION

# Orthognathics 1.5/2.0


# MODUS® Mandible

## LITERATURE


1) Joss, C.U., Vassalli, I.M.
Stability After Bilateral Sagittal Split Osteotomy Advancement Surgery With Rigid Internal Fixation: A Systematic Review
J. Oral Maxillofac Surg. 67:301-313,2009

2) Sauerbier, S., Schön, R., Otten, J.-E., Schmelzeisen, R., Gutwald, R.
The development of plate osteosynthesis for the treatment of fracture of the mandibular body – A literature review
J. of Cranio-Maxillofacial Surgery, 2008, 36, 251-259

3) Prein, J., Assael, L.A.
Manual of Internal Fixation in the Cranio-Facial Skeleton
Springer-Verlag, Berlin Heidelberg, 1998, p. 187 - 198

4) Seeberger R, Asi Y, Thiele O.C, Stucke K, Hoffmann J, Engel M: Neurosensory and temporomandibular joint function after high oblique sagittal split osteotomy (HSSO). An alternative technique in orthognathic surgery.
Br J Oral Maxillofac Surg 2012 Dec 18. Epub ahead of print.

5) Seeberger R, Thiele O. C., Mertens C., Hoffmann J., Engel M.: Proximal segment positioning with high oblique sagittal split osteotomy (HSSO): Indications and limits of intraoperative mobile CBCT.
Oral Surg Oral Med Oral Pathol Oral Radiol Endod 2013 Jan 8. Epub ahead of print.

# Orthognathics 1.5/2.0

**CONTENTS**

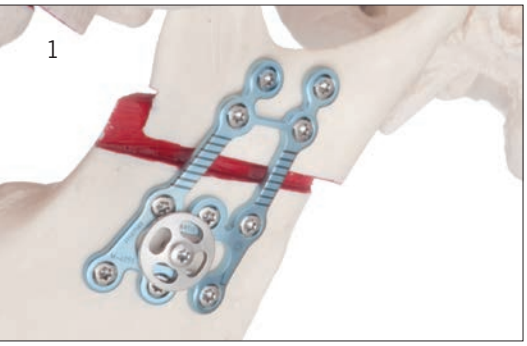

| | |
|---|---|
| 2 | Literature |
| 4 – 5 | Introduction and Indications |
| 6 – 7 | Anatomical Plate Design |
| 8 – 9 | Superior Screw Technology |
| 10 – 11 | Technology and Biomechanics |
| 12 – 13 | Storage in Perfection |
| 14 – 15 | Modular Concept |
| **16 – 35** | **Ordering Information** |
| 16 - 19 | Screws, Sliders |
| 20 - 26 | Plates |
| 27 - 29 | Twist Drills |
| 30 – 33 | Instruments |
| 34 - 35 | Storage |
| 36 - 37 | Clinical Cases |

# MODUS Orthognathics 1.5/2.0

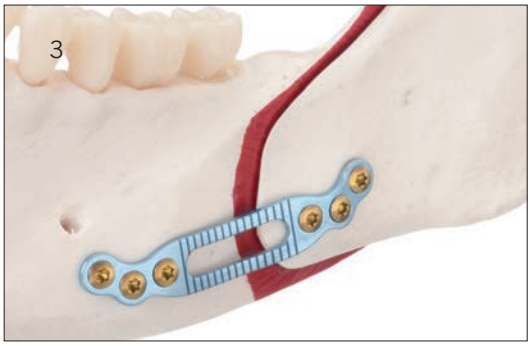
## Indication-specific solutions for maxillary and mandibular orthognathic surgeries

A broad portfolio of plate designs

- Ramus plates for stable osteosynthesis on the ascending ramus
- Open sagittal split plates for transverse flexibility after sagittal split
- Closed sagittal split plates for semi-rigid fixation
- L and Z plate design for LeFort I osteotomies based on clinical CT data
- Pre-shaped maxillary plates with various increments








→ www.medartis.com/de/products/modus/mandible

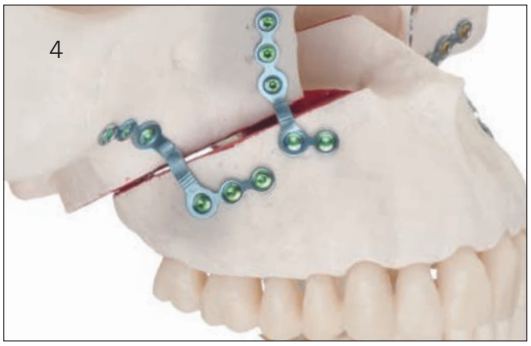
**MODUS ORTHOGNATHICS**

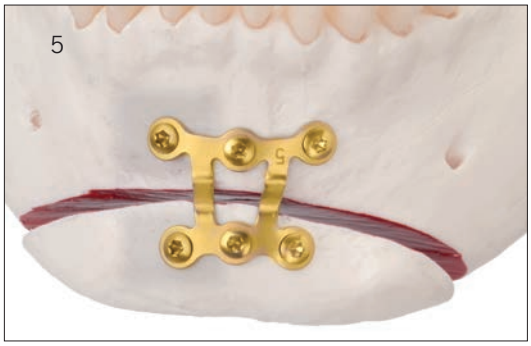
MODUS Orthognathics offers an innovative range of products for use in orthognathic surgeries. A distinction is drawn between the two indications maxilla (midface) and mandible based on the different forces to which they are subjected and the properties of the bone. The 1.5 system size is used for surgeries on the bones of the midface. The 2.0 system size is used for the mandible, which is exposed to greater forces and exhibits a denser bone structure.

MODUS Orthognathics offers the user a selection of indication-specific plates specially designed for applications in the mandible to cover different approaches to surgery. The ideal implant can be selected based on the chosen osteotomy line, the desired degree of stability and the amount of displacement.

MODUS Orthognathics features anatomical plate designs to optimize osteosynthesis efficiency, with minimal plate contouring required. The small increments in plate size are another key benefit. These permit fixation close to the osteotomy line and help achieve greater stability. Laser markings serve as an orientation guide when bending plates and defining the width of the osteotomy split.

Innovative system storage with an intuitive and user-friendly instrument set ensures a pleasant experience all-round when working with MODUS Orthognathics.


4


5

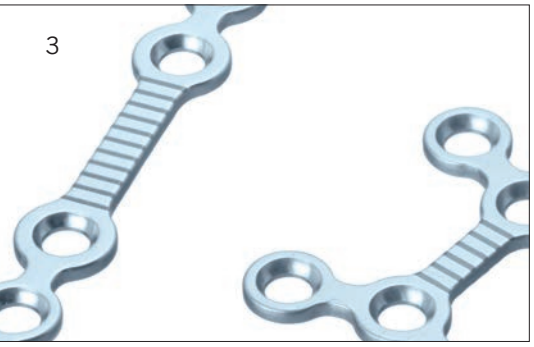
1 Ramus osteotomy
2 Sagittal split with open sagittal split plate
3 Sagittal split with closed sagittal split plate
4 LeFort I
5 Genioplasty

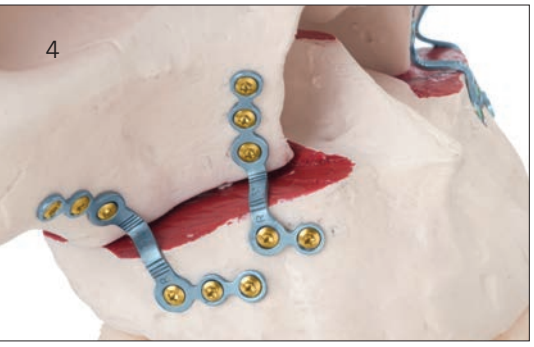
→ www.medartis.com/de/products/modus/mandible

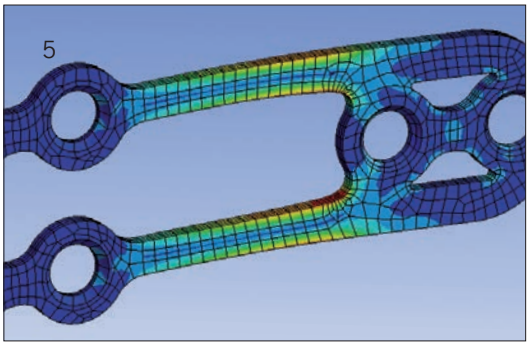
# Anatomical Plate Design

## MODUS Orthognathics 1.5/2.0






1 Chin plate in the clip
2 Detail ramus plate
3 Detail laser markings on implants
4 Part of a skull bone model - LeFort I with cortical screws
5 Finite elements analysis of an open sagittal split plate

For further information on the plate range, see the MODUS Ordering Catalog at www.medartis.com/meta/downloads/marketing-material

→ www.medartis.com/de/products/modus/mandible

- L and Z plate design based on clinical CT data
- Slider as an aid for intraoperative occlusion adjustment
- Small increments in plate sizes for fixation nearer to the osteotomy split

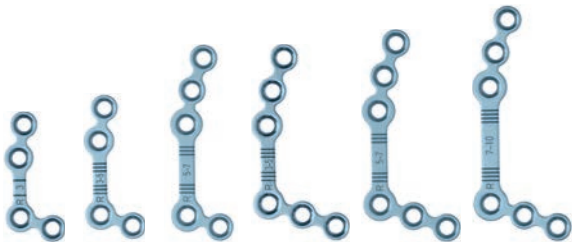
**INDICATIONS**

The MODUS Orthognathics range includes a large selection of plates :

- Mandibular and maxillary (midface) osteotomies performed as part of orthognathic surgery:
  - o LeFort I, II, and III
  - o Ramus and corpus osteotomies
  - o Genioplasties

**PLATE FEATURES**

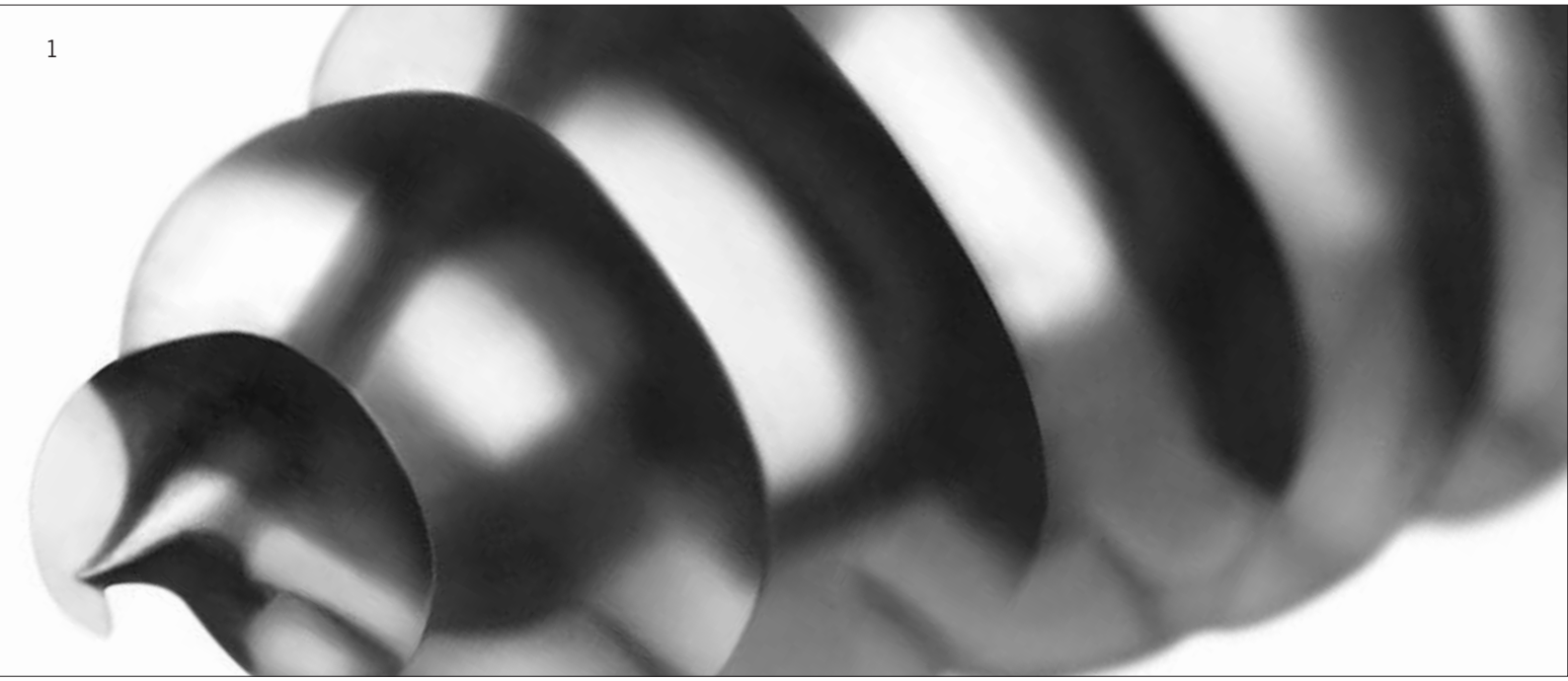
- Plates can be contoured anatomically for intraoperative ease of use
- Midface: system size 1.5, plate thickness 0.7 mm
- Mandible: system size 2.0, plate thicknesses 0.6 - 1.3 mm
- Anatomical plate design
- Reduced plate height prevents soft tissue irritation
- Laser markings as an orientation guide
- Small increments in plate sizes permit fixation nearer to the osteotomy split
- Reinforced screw holes next to the bar provide optimal plate stability



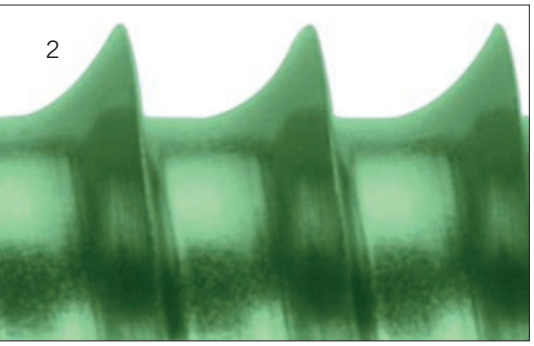
→ www.medartis.com/de/products/modus/mandible

# Superior Screw Technology
## MODUS Orthognathics 1.5/2.0

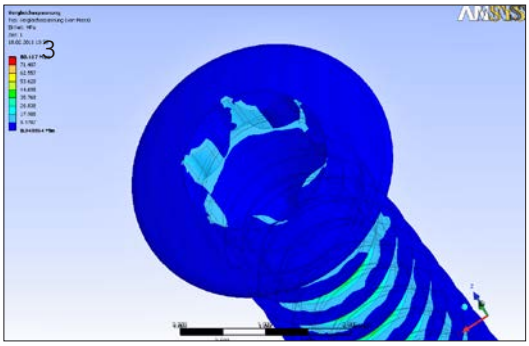
1



2



3



1 SpeedTip polygonal cutting tip
2 Sharp screw thread
3 Finite elements analysis of a HexaDrive screw head

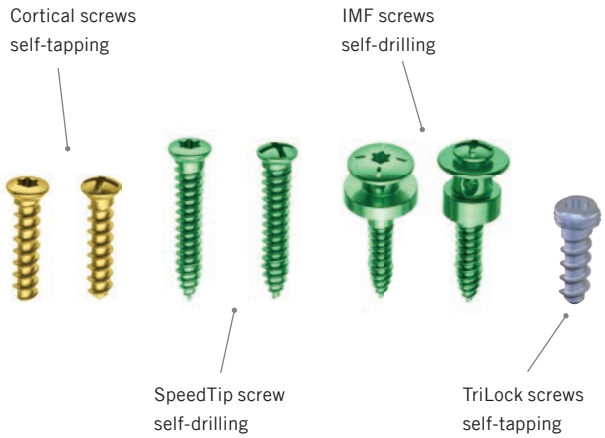
For further information on the screw range, see the MODUS Ordering Catalog at www.medartis.com/meta/downloads/marketing-material

→ www.medartis.com/de/products/modus/mandible

- Outstanding self-tapping screw thread
- HexaDrive interface with excellent self-holding properties
- SpeedTip thread design for time saving and effortless insertion

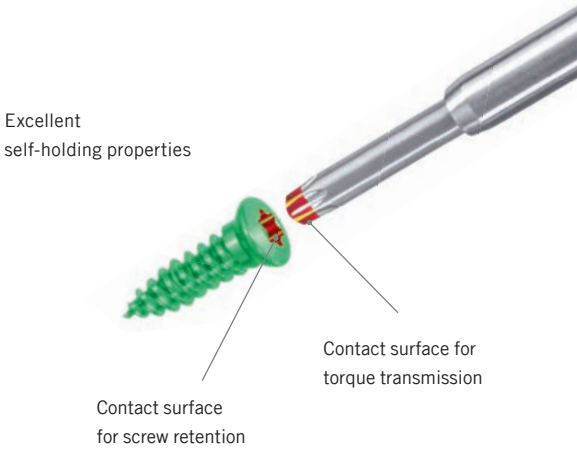
**SCREW OPTIONS**

- Selection between HexaDrive or cross-drive screws
- 1.5/1.8/2.0/2.3 mm self-tapping cortical screws
- 1.5/2.0 SpeedTip screws (self-drilling)
- Screw lengths from 4 mm to 23 mm
- 2.0 mm TriLock screws
- 2.0 mm self-drilling IMF screws (optional)




**SCREW FEATURES**

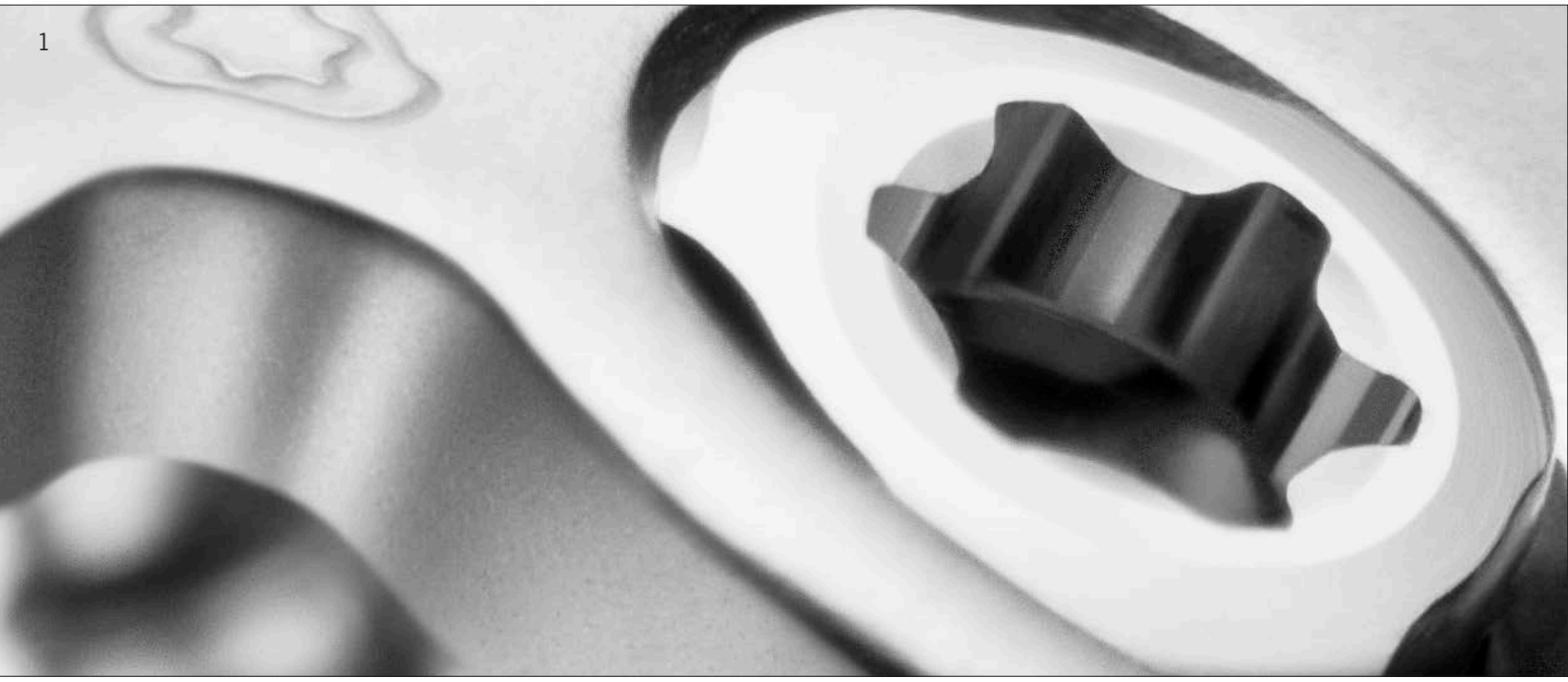
- HexaDrive technology– the optimal self-retaining mechanism between screw and screwdriver for increased torque transmission
- Excellent self-tapping properties (without cutting flutes) and easy screw insertion due to precision cut thread profile
- SpeedTip technology for self-drilling screws:
  - o Reduced risk of dislocation thanks to excellent grip
  - o Effortless insertion: Only the polygonal tip pushes bone material aside – regardless of screw length
  - o Excellent tactile feedback during insertion
- Screws can be inserted more rapidly due to a thread pitch which is optimized for the length of the screw
- Tapered core diameter close to the screw head for increased torsional and tensile strength

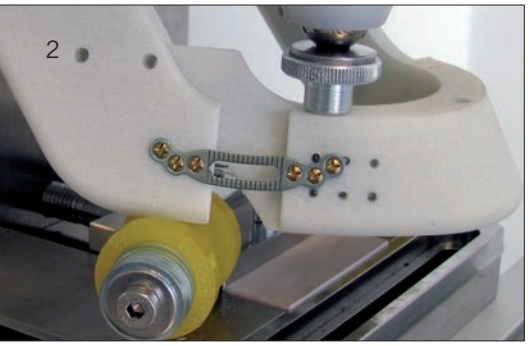


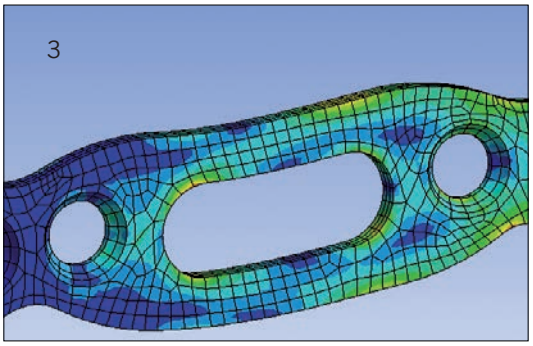

→ www.medartis.com/de/products/modus/mandible

# Technology and Biomechanics

## MODUS Orthognathics 1.5/2.0







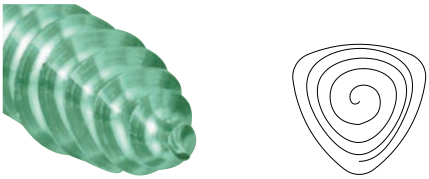
1 TriLock locking technology
2 Biomechanical testing of an implant
3 Finite elements analysis of closed sagittal split plate

→ www.medartis.com/de/products/modus/mandible

- SpeedTip thread design - screw insertion without pre-drilling
- TriLock - multidirectional (±15°) and angular stable
- Osteotomy plates with transverse flexibility
- Ramus plate with the characteristics of an internal fixator

**SPEEDTIP THREAD TECHNOLOGY**

- Functionally unique cutting tip with rapid gripping
- Immediate gripping of the bone with only a slight axial pressure
- The triangular tip design permits simultaneous drilling and displacement of the bone material
- Reduced insertion torque thanks to the polygonal tip and tapered shaft

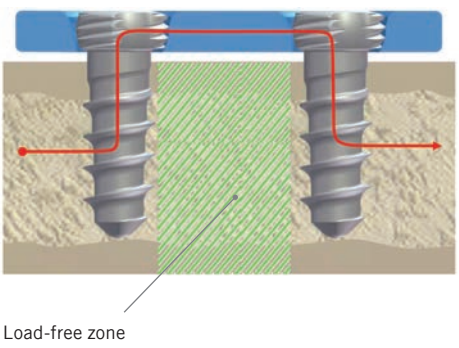


**TRILOCK LOCKING TECHNOLOGY**

- Secure, angular stable locking of the screw in the plate
  - o Spherical three-point wedge-locking
  - o Friction locking through radial bracing of the screw head in the plate – without additional tensioning components
- Screws can pivot freely by ± 15° in all directions for optimal positioning
- Intra-operative fine tuning capabilities
- TriLock screws can be re-locked in the same plate hole under individual angles up to three times
- Minimal screw head protrusion thanks to submerged locking contour
- No cold welding between plate and screws


**BIOMECHANICS**

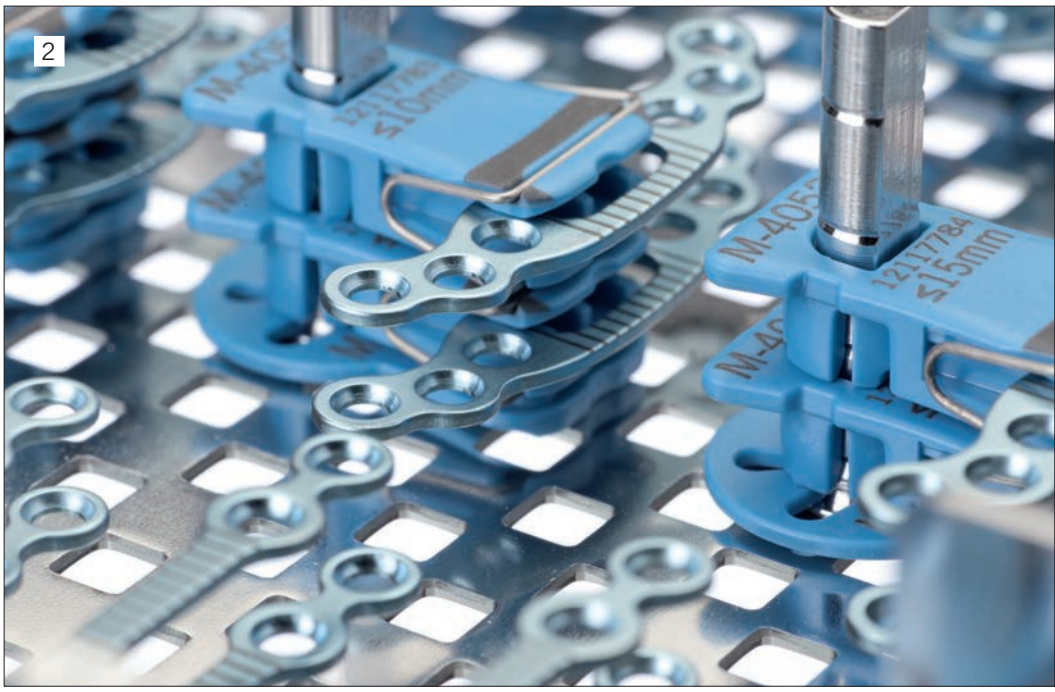
- TriLock ramus plate: internal fixator
  - o "Internal fixator" principle for stable osteosynthesis on the ascending ramus
- Open sagittal split plate: Treatment concept according to Prof. Dr. Dr. Dr. h.c. Ulrich Joos, Münster (Germany)
  - o Transverse plate elasticity permits independent adjustments to be made postoperatively to ensure that the mandibular condyle is optimally positioned

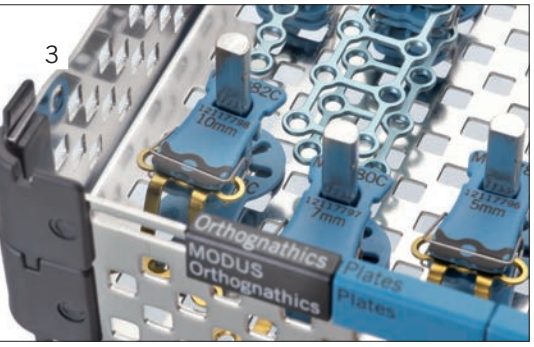


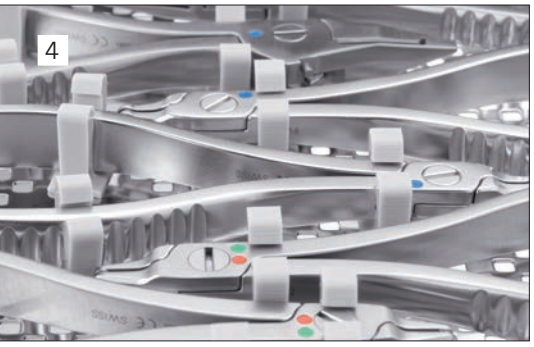

→ www.medartis.com/de/products/modus/mandible

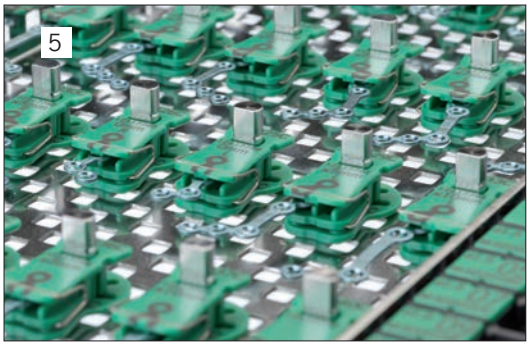
# Storage in Perfection

## MODUS Orthognathics 1.5/2.0


1 Screw module
2 Detail stackable plates in the clip
3 Instrument case with color-coding
4 Instrument case
5 Plate module

→ www.medartis.com/de/products/modus/mandible

- Flexible, simple, safe
- User-specific sets
- LOT traceability for each implant
- Validated preparation and sterilization

**FLEXIBLE - MODULAR CONCEPT**

- Economical set configurations
- Set contents can be configured to meet user needs
- Easy implant upgradeability
- Storage of implants in clips

**SIMPLE - WELL DESIGNED COLOR-CODING AND LABELING CONCEPT**

- Color-coded clips to ensure clear matching of compatible implants
- Barcoding ensures clear matching of drills to screws
- Laser-engraved plate contour on the clip matches the actual dimensions of the plate
- All implant data easy to identify thanks to clearly legible clip labeling, including:
  - o Article number
  - o LOT number
  - o Screw diameter in mm
  - o Screw length in mm

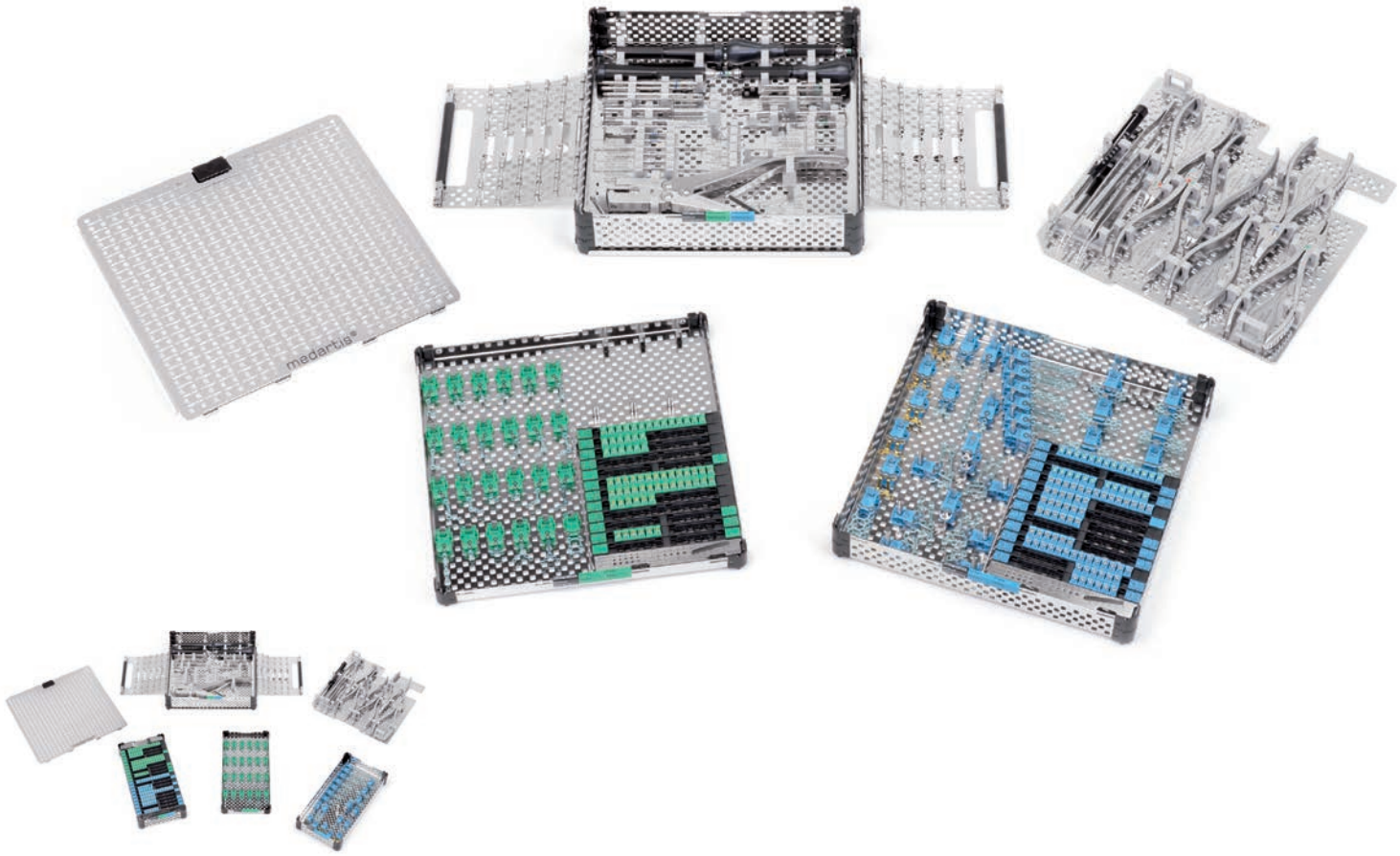

**SAFE - VALIDATED PREPARATION AND STERILIZATION**

- Implants securely held in the clip permit an optimal washing process
- Sterilization in the container or wrapping in sterilization wrap/film
- Implant cases with validated cleaning and sterilization
- Implant cases easy to stack

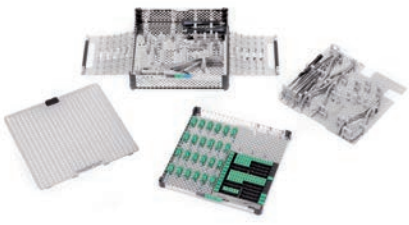
→ www.medartis.com/de/products/modus/mandible

# Modular Concept

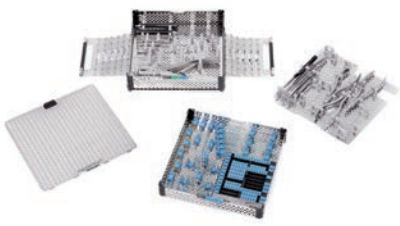
- Economic and compact system
- Easy to handle
- Streamlined organization of implants and instruments
- Clips ensure LOT traceability
- Validated cleaning and sterilization




Also available as separate sets:



MODUS Orthognathics 1.5 (including instruments)

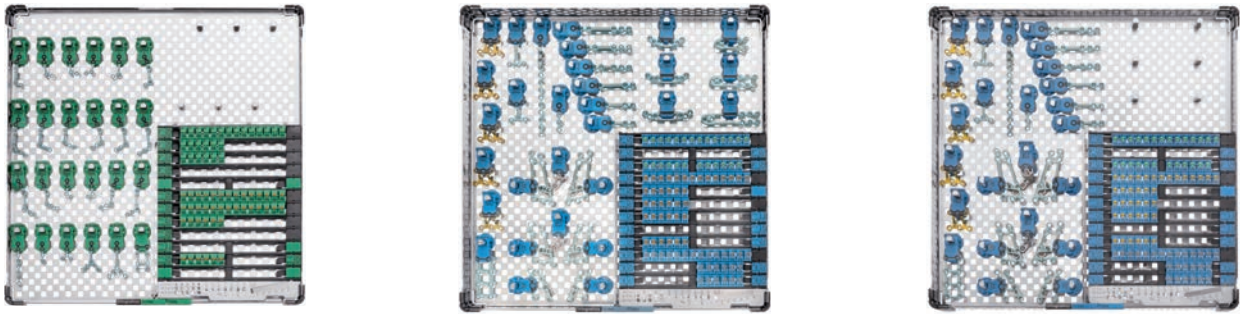


MODUS Orthognathics 2.0 (including instruments)

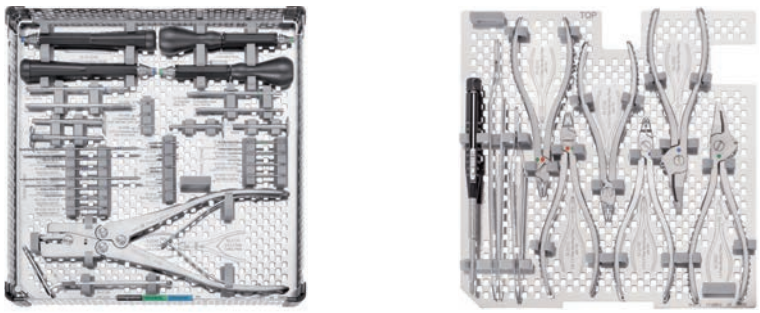
→ www.medartis.com/de/products/modus/mandible

Example of equipped implant cases (1.5/2.0), plates and screws (small)

Example of equipped implant cases (1.5/2.0), plates and screws (large)



Example of an equipped instrument case



Instrument case

Instrument tray

→ www.medartis.com/de/products/modus/mandible

# Ordering Information

## 1.5 Cortical Screws, HexaDrive 4, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5220.04C/1 | 1 | M-5220.04C/4 | 4 | M-6762.020 |
| 5 mm | M-5220.05C/1 | 1 | M-5220.05C/4 | 4 | M-6762.021 |
| 6 mm | M-5220.06C/1 | 1 | M-5220.06C/4 | 4 | M-6762.022 |
| 7 mm | M-5220.07C/1 | 1 | M-5220.07C/4 | 4 | M-6762.023 |
| 8 mm | M-5220.08C/1 | 1 | M-5220.08C/4 | 4 | M-6762.024 |
| 9 mm | M-5220.09C/1 | 1 | M-5220.09C/4 | 4 | M-6762.025 |
| 11 mm | M-5220.11C/1 | 1 | M-5220.11C/4 | 4 | M-6762.027 |

## 1.5 Cortical Screws, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5122.04C/1 | 1 | M-5122.04C/4 | 4 | M-6762.002 |
| 5 mm | M-5122.05C/1 | 1 | M-5122.05C/4 | 4 | M-6762.003 |
| 6 mm | M-5122.06C/1 | 1 | M-5122.06C/4 | 4 | M-6762.004 |
| 7 mm | M-5122.07C/1 | 1 | M-5122.07C/4 | 4 | M-6762.005 |
| 8 mm | M-5122.08C/1 | 1 | M-5122.08C/4 | 4 | M-6762.006 |
| 9 mm | M-5122.09C/1 | 1 | M-5122.09C/4 | 4 | M-6762.007 |
| 11 mm | M-5122.11C/1 | 1 | M-5122.11C/4 | 4 | M-6762.009 |

## 1.5 SpeedTip Screws, Self-Drilling, HexaDrive 4, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5223.04C/1 | 1 | M-5223.04C/4 | 4 | M-6762.032 |
| 5 mm | M-5223.05C/1 | 1 | M-5223.05C/4 | 4 | M-6762.033 |
| 6 mm | M-5223.06C/1 | 1 | M-5223.06C/4 | 4 | M-6762.034 |
| 7 mm | M-5223.07C/1 | 1 | M-5223.07C/4 | 4 | M-6762.035 |
| 9 mm | M-5223.09C/1 | 1 | M-5223.09C/4 | 4 | M-6762.036 |

## 1.5 SpeedTip Screws, Self-Drilling, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5121.04C/1 | 1 | M-5121.04C/4 | 4 | M-6762.014 |
| 5 mm | M-5121.05C/1 | 1 | M-5121.05C/4 | 4 | M-6762.015 |
| 6 mm | M-5121.06C/1 | 1 | M-5121.06C/4 | 4 | M-6762.016 |
| 7 mm | M-5121.07C/1 | 1 | M-5121.07C/4 | 4 | M-6762.017 |
| 9 mm | M-5121.09C/1 | 1 | M-5121.09C/4 | 4 | M-6762.018 |

→ www.medartis.com/de/products/modus/mandible

For further information on removing and installing of push-buttons, see document „MANDIBLE-07001001_v0 , Clip Case System - Instructions for service and maintenance“ at www.medartis.com/meta/downloads/marketing-material

## 1.8 Cortical Screws, HexaDrive 4, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5230.05C/1 | 1 | M-5230.05C/4 | 4 | M-6762.039 |
| 7 mm | M-5230.07C/1 | 1 | M-5230.07C/4 | 4 | M-6762.040 |

## 1.8 Cortical Screws, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5132.05C/1 | 1 | M-5132.05C/4 | 4 | M-6762.037 |
| 7 mm | M-5132.07C/1 | 1 | M-5132.07C/4 | 4 | M-6762.038 |

## 2.0 Cortical Screws, HexaDrive 6, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5240.04C/1 | 1 | M-5240.04C/4 | 4 | M-6766.027 |
| 5 mm | M-5240.05C/1 | 1 | M-5240.05C/4 | 4 | M-6766.028 |
| 6 mm | M-5240.06C/1 | 1 | M-5240.06C/4 | 4 | M-6766.029 |
| 7 mm | M-5240.07C/1 | 1 | M-5240.07C/4 | 4 | M-6766.030 |
| 8 mm | M-5240.08C/1 | 1 | M-5240.08C/4 | 4 | M-6766.031 |
| 9 mm | M-5240.09C/1 | 1 | M-5240.09C/4 | 4 | M-6766.032 |
| 11 mm | M-5240.11C/1 | 1 | M-5240.11C/4 | 4 | M-6766.034 |
| 13 mm | M-5240.13C/1 | 1 | M-5240.13C/4 | 4 | M-6766.036 |
| 15 mm | M-5240.15C/1 | 1 | M-5240.15C/4 | 4 | M-6766.037 |
| 17 mm | M-5240.17C/1 | 1 | M-5240.17C/4 | 4 | M-6766.038 |
| 19 mm | M-5240.19C/1 | 1 | M-5240.19C/4 | 4 | M-6766.039 |
| 21 mm | M-5240.21C/1 | 1 | M-5240.21C/4 | 4 | M-6766.040 |
| 23 mm | M-5240.23C/1 | 1 | M-5240.23C/4 | 4 | M-6766.041 |

## 2.0 Cortical Screws, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 4 mm | M-5180.04C/1 | 1 | M-5180.04C/4 | 4 | M-6766.001 |
| 5 mm | M-5180.05C/1 | 1 | M-5180.05C/4 | 4 | M-6766.002 |
| 6 mm | M-5180.06C/1 | 1 | M-5180.06C/4 | 4 | M-6766.003 |
| 7 mm | M-5180.07C/1 | 1 | M-5180.07C/4 | 4 | M-6766.004 |
| 8 mm | M-5180.08C/1 | 1 | M-5180.08C/4 | 4 | M-6766.005 |
| 9 mm | M-5180.09C/1 | 1 | M-5180.09C/4 | 4 | M-6766.006 |
| 11 mm | M-5180.11C/1 | 1 | M-5180.11C/4 | 4 | M-6766.008 |
| 13 mm | M-5180.13C/1 | 1 | M-5180.13C/4 | 4 | M-6766.009 |
| 15 mm | M-5180.15C/1 | 1 | M-5180.15C/4 | 4 | M-6766.010 |
| 17 mm | M-5180.17C/1 | 1 | M-5180.17C/4 | 4 | M-6766.011 |
| 19 mm | M-5180.19C/1 | 1 | M-5180.19C/4 | 4 | M-6766.012 |
| 21 mm | M-5180.21C/1 | 1 | M-5180.21C/4 | 4 | M-6766.013 |
| 23 mm | M-5180.23C/1 | 1 | M-5180.23C/4 | 4 | M-6766.014 |

## 2.0 SpeedTip Screws, Self-Drilling, HexaDrive 6, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5243.05C/1 | 1 | M-5243.05C/4 | 4 | M-6766.042 |
| 6 mm | M-5243.06C/1 | 1 | M-5243.06C/4 | 4 | M-6766.043 |
| 7 mm | M-5243.07C/1 | 1 | M-5243.07C/4 | 4 | M-6766.044 |
| 8 mm | M-5243.08C/1 | 1 | M-5243.08C/4 | 4 | M-6766.045 |
| 9 mm | M-5243.09C/1 | 1 | M-5243.09C/4 | 4 | M-6766.046 |
| 11 mm | M-5243.11C/1 | 1 | M-5243.11C/4 | 4 | M-6766.048 |

## 2.0 SpeedTip Screws, Self-Drilling, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5183.05C/1 | 1 | M-5183.05C/4 | 4 | M-6766.015 |
| 6 mm | M-5183.06C/1 | 1 | M-5183.06C/4 | 4 | M-6766.016 |
| 7 mm | M-5183.07C/1 | 1 | M-5183.07C/4 | 4 | M-6766.017 |
| 8 mm | M-5183.08C/1 | 1 | M-5183.08C/4 | 4 | M-6766.018 |
| 9 mm | M-5183.09C/1 | 1 | M-5183.09C/4 | 4 | M-6766.019 |
| 11 mm | M-5183.11C/1 | 1 | M-5183.11C/4 | 4 | M-6766.021 |

## 2.0 TriLock Screws, HexaDrive 6, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5245.05C/1 | 1 | M-5245.05C/4 | 4 | M-6766.054 |
| 6 mm | M-5245.06C/1 | 1 | M-5245.06C/4 | 4 | M-6766.055 |
| 7 mm | M-5245.07C/1 | 1 | M-5245.07C/4 | 4 | M-6766.056 |
| 8 mm | M-5245.08C/1 | 1 | M-5245.08C/4 | 4 | M-6766.057 |
| 9 mm | M-5245.09C/1 | 1 | M-5245.09C/4 | 4 | M-6766.058 |

→ www.medartis.com/de/products/modus/mandible

For further information on removing and installing of push-buttons, see document „MANDIBLE-07001001_v0 , Clip Case System - Instructions for service and maintenance“ at www.medartis.com/meta/downloads/marketing-material

## 2.3 Cortical Screws, HexaDrive 6, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5250.05C/1 | 1 | M-5250.05C/4 | 4 | M-6766.066 |
| 7 mm | M-5250.07C/1 | 1 | M-5250.07C/4 | 4 | M-6766.067 |

## 2.3 Cortical Screws, Cross-Drive, in the Clip

Material: Titanium (ASTM F136)


| Length | Art. No. | Piece/Pkg | Art. No. | Piece/Pkg | Push-Button |
|---|---|---|---|---|---|
| 5 mm | M-5190.05C/1 | 1 | M-5190.05C/4 | 4 | M-6766.063 |
| 7 mm | M-5190.07C/1 | 1 | M-5190.07C/4 | 4 | M-6766.064 |

## Sliders, Fenestrated, in the Clip

Material: Titanium (ASTM F136)



M-5242.08C M-5142.08C M-5252.08C M-5152.08C

| Art. No. | Interface | Ø | Length | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-5242.08C | HD6 | 2.0 mm | 8 mm | 1 | M-6776.035 |
| M-5142.08C | | 2.0 mm | 8 mm | 1 | M-6776.033 |
| M-5252.08C | HD6 | 2.3 mm | 8 mm | 1 | M-6776.036 |
| M-5152.08C | | 2.3 mm | 8 mm | 1 | M-6776.034 |

→ www.medartis.com/de/products/modus/mandible

## 1.5 Straight Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm

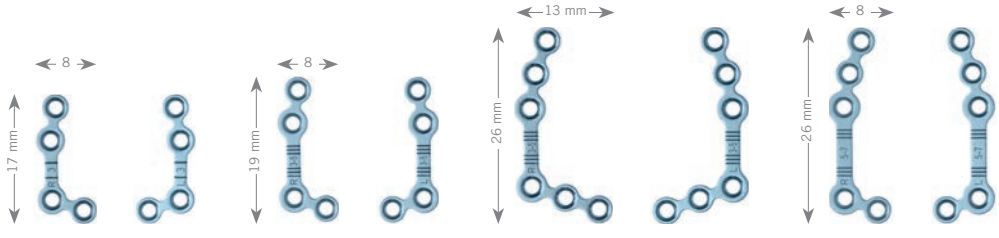


M-4038C M-4039C

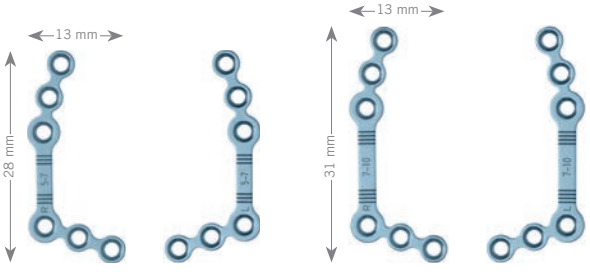
| Art. No. | Description | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|
| M-4038C | straight, in the clip | 4 | 1 | M-6772.022 |
| M-4039C | straight, in the clip | 8 | 1 | M-6772.023 |

## 1.5 L-Plates, Medial, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm


M-4004C M-4003C M-4008C M-4007C M-4012C M-4011C M-4014C M-4013C




M-4018C M-4017C M-4022C M-4021C

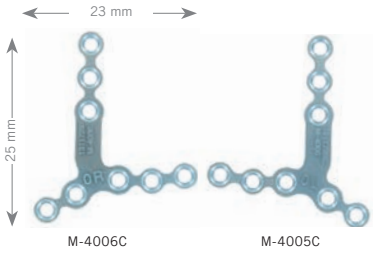
| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4003C | L, left, in the clip | max. 3 mm | 4 | 1 | M-6772.001 |
| M-4004C | L, right, in the clip | max. 3 mm | 4 | 1 | M-6772.002 |
| M-4007C | L, left, in the clip | max. 5 mm | 4 | 1 | M-6772.003 |
| M-4008C | L, right, in the clip | max. 5 mm | 4 | 1 | M-6772.004 |
| M-4011C | L, left, in the clip | max. 5 mm | 6 | 1 | M-6772.005 |
| M-4012C | L, right, in the clip | max. 5 mm | 6 | 1 | M-6772.006 |
| M-4013C | L, left, in the clip | max. 7 mm | 5 | 1 | M-6772.007 |
| M-4014C | L, right, in the clip | max. 7 mm | 5 | 1 | M-6772.008 |
| M-4017C | L, left, in the clip | max. 7 mm | 6 | 1 | M-6772.009 |
| M-4018C | L, right, in the clip | max. 7 mm | 6 | 1 | M-6772.010 |
| M-4021C | L, left, in the clip | max. 10 mm | 6 | 1 | M-6772.011 |
| M-4022C | L, right, in the clip | max. 10 mm | 6 | 1 | M-6772.012 |

→ www.medartis.com/de/products/modus/mandible

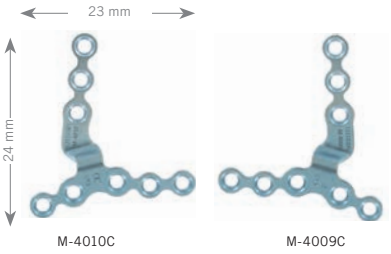
For further information on removing and installing of stickers, see document „MANDIBLE-07001001_v0 , Clip Case System - Instructions for service and maintenance“ at www.medartis.com/meta/downloads/marketing-material

## 1.5 Maxillary Plates, Pre-shaped, Medial, in the Clip

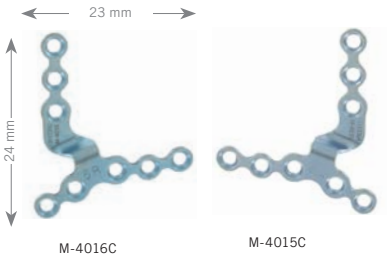
Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm

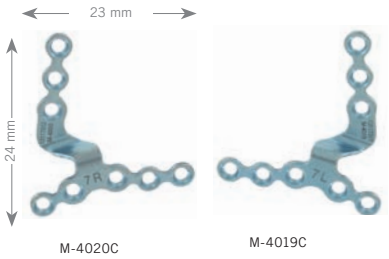

M-4006C M-4005C



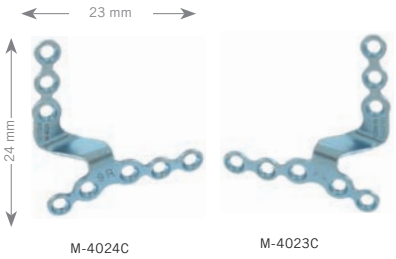

M-4010C M-4009C



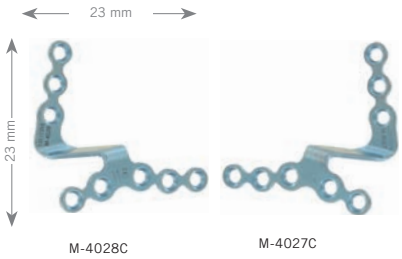

M-4016C M-4015C




M-4020C M-4019C




M-4024C M-4023C



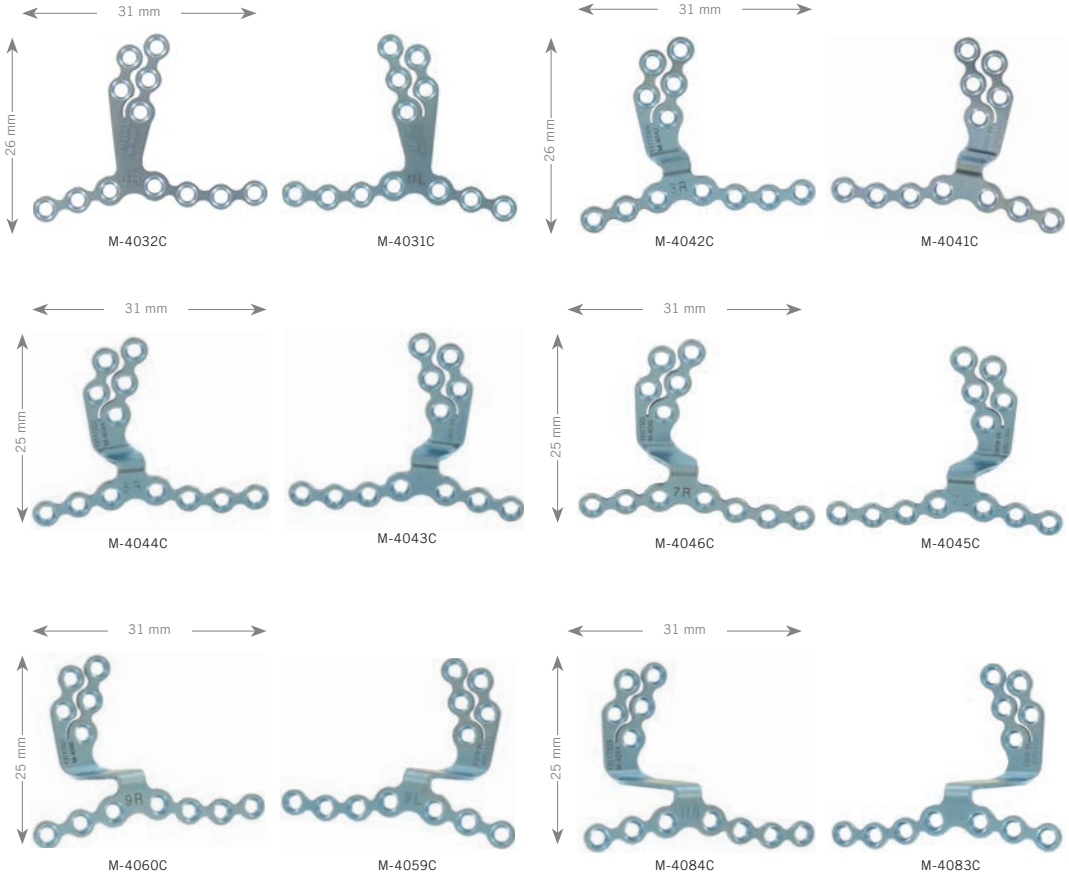

M-4028C M-4027C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4005C | LeFort I, left, in the clip | 0 mm | 8 | 1 | M-6772.25 |
| M-4006C | LeFort I, right, in the clip | 0 mm | 8 | 1 | M-6772.26 |
| M-4009C | LeFort I, left, in the clip | 3 mm | 8 | 1 | M-6772.27 |
| M-4010C | LeFort I, right, in the clip | 3 mm | 8 | 1 | M-6772.28 |
| M-4015C | LeFort I, left, in the clip | 5 mm | 8 | 1 | M-6772.29 |
| M-4016C | LeFort I, right, in the clip | 5 mm | 8 | 1 | M-6772.30 |
| M-4019C | LeFort I, left, in the clip | 7 mm | 8 | 1 | M-6772.31 |
| M-4020C | LeFort I, right, in the clip | 7 mm | 8 | 1 | M-6772.32 |
| M-4023C | LeFort I, left, in the clip | 9 mm | 8 | 1 | M-6772.33 |
| M-4024C | LeFort I, right, in the clip | 9 mm | 8 | 1 | M-6772.34 |
| M-4027C | LeFort I, left, in the clip | 11 mm | 8 | 1 | M-6772.35 |
| M-4028C | LeFort I, right, in the clip | 11 mm | 8 | 1 | M-6772.36 |

→ www.medartis.com/de/products/modus/mandible

## 1.5 Maxillary Plates, Pre-shaped, Medial, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm

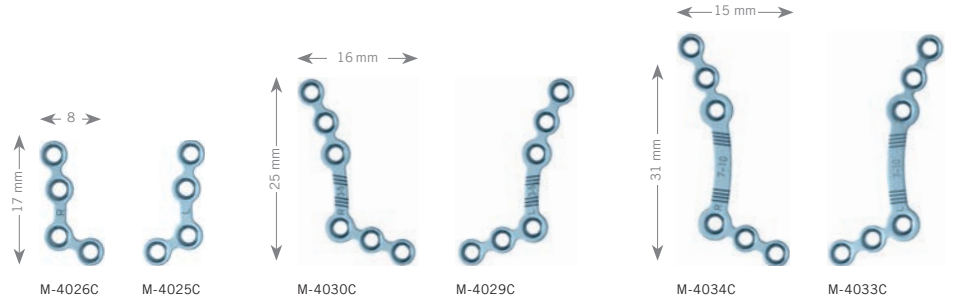




| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4031C | LeFort I, left, in the clip | 0mm | 12 | 1 | M-6772.037 |
| M-4032C | LeFort I, right, in the clip | 0mm | 12 | 1 | M-6772.038 |
| M-4041C | LeFort I, left, in the clip | 3mm | 12 | 1 | M-6772.039 |
| M-4042C | LeFort I, right, in the clip | 3mm | 12 | 1 | M-6772.040 |
| M-4043C | LeFort I, left, in the clip | 5mm | 12 | 1 | M-6772.041 |
| M-4044C | LeFort I, right, in the clip | 5mm | 12 | 1 | M-6772.042 |
| M-4045C | LeFort I, left, in the clip | 7mm | 12 | 1 | M-6772.043 |
| M-4046C | LeFort I, right, in the clip | 7mm | 12 | 1 | M-6772.044 |
| M-4059C | LeFort I, left, in the clip | 9mm | 12 | 1 | M-6772.045 |
| M-4060C | LeFort I, right, in the clip | 9mm | 12 | 1 | M-6772.046 |
| M-4083C | LeFort I, left, in the clip | 11mm | 12 | 1 | M-6772.047 |
| M-4084C | LeFort I, right, in the clip | 11mm | 12 | 1 | M-6772.048 |

→ www.medartis.com/de/products/modus/mandible

## 1.5 Z-Plates, Lateral, in the Clip

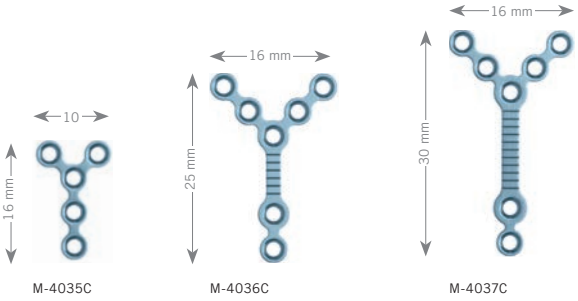
Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm


| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4025C | Z, left, in the clip | 0 mm | 4 | 1 | M-6772.013 |
| M-4026C | Z, right, in the clip | 0 mm | 4 | 1 | M-6772.014 |
| M-4029C | Z, left, in the clip | max. 5 mm | 6 | 1 | M-6772.015 |
| M-4030C | Z, right, in the clip | max. 5 mm | 6 | 1 | M-6772.016 |
| M-4033C | Z, left, in the clip | max. 10 mm | 6 | 1 | M-6772.017 |
| M-4034C | Z, right, in the clip | max. 10 mm | 6 | 1 | M-6772.018 |

## 1.5 Y-Plates, in the Clip

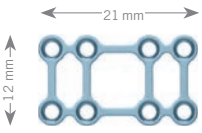
Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm


| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4035C | Y, in the clip | 0 mm | 5 | 1 | M-6772.019 |
| M-4036C | Y, in the clip | max. 5 mm | 7 | 1 | M-6772.020 |
| M-4037C | Y, in the clip | max. 10 mm | 7 | 1 | M-6776.021 |

## 1.5 Grid Plate, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm

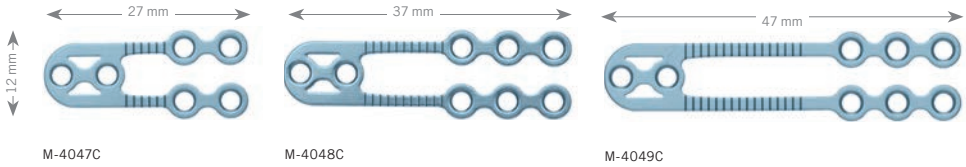




| Art. No. | Description | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|
| M-4040C | rectangular, in the clip | 8 (4x2) | 1 | M-6772.024 |

→ www.medartis.com/de/products/modus/mandible

## 2.0 Sagittal Split Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.7 mm, 0.8 mm

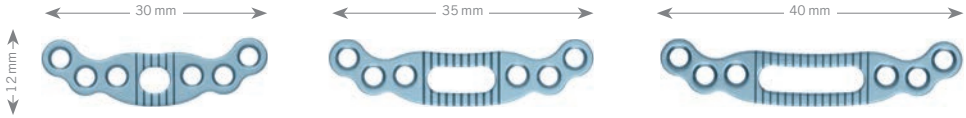




M-4047C M-4048C M-4049C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4047C | open, in the clip | max. 5 mm | 6 | 1 | M-6776.001 |
| M-4048C | open, in the clip | max. 10 mm | 8 | 1 | M-6776.002 |
| M-4049C | open, in the clip | max. 15 mm | 8 | 1 | M-6776.003 |

## 2.0 Sagittal Split Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.8 mm, 0.9 mm, 1.0 mm

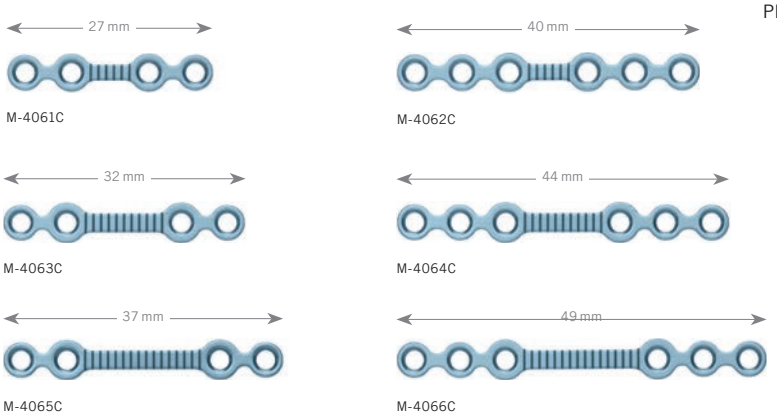




M-4050C M-4051C M-4052C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4050C | closed, in the clip | max. 5 mm | 6 | 1 | M-6776.004 |
| M-4051C | closed, in the clip | max. 10 mm | 6 | 1 | M-6776.005 |
| M-4052C | closed, in the clip | max. 15 mm | 6 | 1 | M-6776.006 |

## 2.0 Sagittal Split Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 1.0 mm


M-4061C M-4062C M-4063C M-4064C M-4065C M-4066C

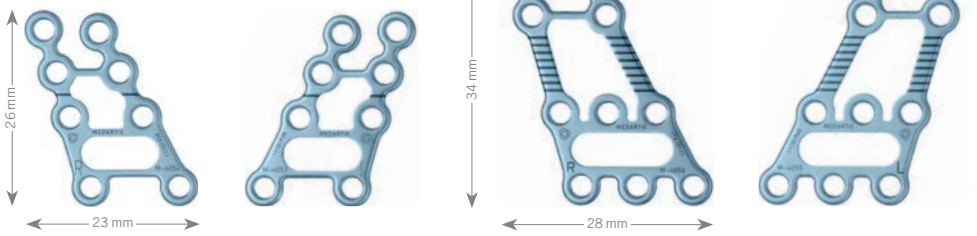
| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4061C | straight, in the clip | max. 5 mm | 4 | 1 | M-6776.013 |
| M-4062C | straight, in the clip | max. 5 mm | 6 | 1 | M-6776.014 |
| M-4063C | straight, in the clip | max. 10 mm | 4 | 1 | M-6776.015 |
| M-4064C | straight, in the clip | max. 10 mm | 6 | 1 | M-6776.016 |
| M-4065C | straight, in the clip | max. 15 mm | 4 | 1 | M-6776.017 |
| M-4066C | straight, in the clip | max. 15 mm | 6 | 1 | M-6776.018 |

→ www.medartis.com/de/products/modus/mandible

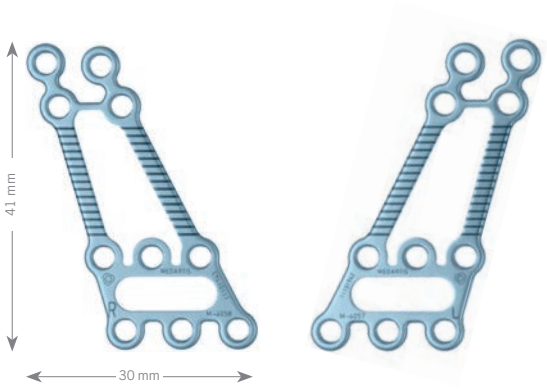
For further information on removing and installing of push-buttons, see document „MANDIBLE-07001001_v0 , Clip Case System - Instructions for service and maintenance“ at www.medartis.com/meta/downloads/marketing-material

## 2.0 TriLock Ramus Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 1.3 mm


M-4054C M-4053C M-4056C M-4055C

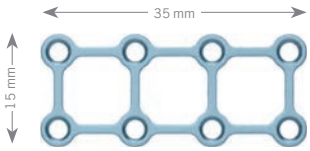



M-4058C M-4057C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4053C | left, in the clip | 0 mm | 8 | 1 | M-6776.007 |
| M-4054C | right, in the clip | 0 mm | 8 | 1 | M-6776.008 |
| M-4055C | left, in the clip | max. 7 mm | 10 | 1 | M-6776.009 |
| M-4056C | right, in the clip | max. 7 mm | 10 | 1 | M-6776.010 |
| M-4057C | left, in the clip | max. 14 mm | 10 | 1 | M-6776.011 |
| M-4058C | right, in the clip | max. 14 mm | 10 | 1 | M-6776.012 |

## 2.0 Grid Plate, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 1.0 mm


| Art. No. | Description | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|
| M-4067C | square, in the clip | 8 (4x2) | 1 | M-6776.019 |

→ www.medartis.com/de/products/modus/mandible

## 2.0 Straight Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 1.0 mm

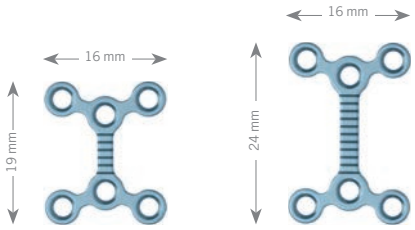


M-4068C M-4069C

| Art. No. | Description | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|
| M-4068C | straight, in the clip | 4 | 1 | M-6776.020 |
| M-4069C | straight, in the clip | 14 | 1 | M-6776.021 |

## 2.0 Chin Plates, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 1.0 mm


M-4070C M-4072C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4070C | X, in the clip | max. 5 mm | 6 | 1 | M-6776.022 |
| M-4072C | X, in the clip | max. 10 mm | 6 | 1 | M-6776.023 |

## 2.0 Chin Plates, Pre-shaped, in the Clip

Material: Titanium (ASTM F67)
Plate thickness: 0.6 mm



M-4074C M-4076C M-4078C M-4080C M-4082C

| Art. No. | Description | Bar | Holes | Piece/Pkg | Sticker |
|---|---|---|---|---|---|
| M-4074C | flat, in the clip | 0 mm | 6 | 1 | M-6776.024 |
| M-4076C | pre-shaped, in the clip | 3 mm | 6 | 1 | M-6776.025 |
| M-4078C | pre-shaped, in the clip | 5 mm | 6 | 1 | M-6776.026 |
| M-4080C | pre-shaped, in the clip | 7 mm | 6 | 1 | M-6776.027 |
| M-4082C | pre-shaped, in the clip | 10 mm | 6 | 1 | M-6776.028 |

→ www.medartis.com/de/products/modus/mandible

For further information on removing and installing of push-buttons, see document „MANDIBLE-07001001_v0 , Clip Case System - Instructions for service and maintenance“ at www.medartis.com/meta/downloads/marketing-material

## Twist Drills for Screws Ø 1.5 mm

M-3019

M-3039

M-3059

M-3029

M-3049

M-3069

| Art. No. | Ø Twist Drill | Stop | Length | Drill Shaft End | Piece/Pkg |
|---|---|---|---|---|---|
| M-3019 | 1.1 | 5 mm | 35 mm | Dental | 1 |
| M-3039 | 1.1 | 7 mm | 37 mm | Dental | 1 |
| M-3059 | 1.1 | 16 mm | 46 mm | Dental | 1 |
| M-3029 | 1.1 | 5 mm | 48 mm | Stryker | 1 |
| M-3049 | 1.1 | 7 mm | 50 mm | Stryker | 1 |
| M-3069 | 1.1 | 16 mm | 59 mm | Stryker | 1 |

## Twist Drills for Gliding Hole Ø 1.5 mm

M-3099

M-3109

| Art. No. | Ø Twist Drill | Stop | Length | Drill Shaft End | Piece/Pkg |
|---|---|---|---|---|---|
| M-3099 | 1.5 | 25 mm | 55 mm | Dental | 1 |
| M-3109 | 1.5 | 25 mm | 68 mm | Stryker | 1 |

## Twist Drills for Screws Ø 2.0 mm

M-3119

M-3139

M-3159

M-3459

M-3129

M-3149

M-3169

M-3469

M-3319*

M-3339*

M-3359*

| Art. No. | Ø Twist Drill | Stop | Length | Drill Shaft End | Piece/Pkg |
|---|---|---|---|---|---|
| M-3119 | 1.5 | 5 mm | 35 mm | Dental | 1 |
| M-3139 | 1.5 | 7 mm | 37 mm | Dental | 1 |
| M-3159 | 1.5 | 25 mm | 55 mm | Dental | 1 |
| M-3459 | 1.5 | 25 mm | 99 mm | Dental | 1 |
| M-3129 | 1.5 | 5 mm | 48 mm | Stryker | 1 |
| M-3149 | 1.5 | 7 mm | 50 mm | Stryker | 1 |
| M-3169 | 1.5 | 25 mm | 68 mm | Stryker | 1 |
| M-3469 | 1.5 | 25 mm | 112 mm | Stryker | 1 |
| M-3319* | 1.5 | 5 mm | 14.5 mm | Dental | 1 |
| M-3339* | 1.5 | 7 mm | 16.5 mm | Dental | 1 |
| M-3359* | 1.5 | 13 mm | 22.5 mm | Dental | 1 |

* for MODUS 90° screwdriver

→ www.medartis.com/de/products/modus/mandible

# Twist Drill for Screws Ø 2.3 mm (and for Gliding Hole Ø 2.0 mm)

M-3239

M-3259

M-3279

M-3249

M-3269

M-3289

M-3419*

M-3439*

| Art. No. | Ø Twist Drill | Stop | Length | Drill Shaft End | Piece/Pkg |
|---|---|---|---|---|---|
| M-3239 | 2.0 | 7 mm | 37 mm | Dental | 1 |
| M-3259 | 2.0 | 25 mm | 55 mm | Dental | 1 |
| M-3279 | 2.0 | 25 mm | 99 mm | Dental | 1 |
| M-3249 | 2.0 | 7 mm | 50 mm | Stryker | 1 |
| M-3269 | 2.0 | 25 mm | 68 mm | Stryker | 1 |
| M-3289 | 2.0 | 25 mm | 112 mm | Stryker | 1 |
| M-3419* | 2.0 | 7 mm | 19 mm | Dental | 1 |
| M-3439* | 2.0 | 13 mm | 25 mm | Dental | 1 |

* for MODUS 90° screwdriver

→ www.medartis.com/de/products/modus/mandible

## Screwdriver 1.5 (Single Components)

M-2552

M-2032



M-2662



M-2522



M-2512

| Art. No. | Interface | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2552 | | tension sleeve for M-2512 | 45 mm | 1 |
| M-2032 | | screwdriver handle | 110 mm | 1 |
| M-2662 | HD4 | screwdriver blade, self-holding | 69 mm | 1 |
| M-2522 | | screwdriver blade, self-holding | 69 mm | 1 |
| M-2512 | | screwdriver blade for M-2552 | 69 mm | 1 |

## Screwdriver 2.0 (Single Components)

M-2553

M-2046



M-2663



M-2523



M-2513

| Art. No. | Interface | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2553 | | tension sleeve for M-2513 | 45 mm | 1 |
| M-2046 | | screwdriver handle | 110 mm | 1 |
| M-2663 | HD6 | screwdriver blade, self-holding | 84 mm | 1 |
| M-2523 | | screwdriver blade, self-holding | 84 mm | 1 |
| M-2513 | | screwdriver blade for M-2553 | 87 mm | 1 |

## 90° Screwdriver

M-2410

M-2438

M-2430

| Art. No. | System | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2410 | 1.5 - 2.0, TriLock | without rotation knob | 218 mm | 1 |
| M-2438 | 1.5 - 2.0, TriLock | torque-limiting knob | 58 mm | 1 |
| M-2430 | 1.5 - 2.0, TriLock | rotation knob | 46 mm | 1 |

→ www.medartis.com/de/products/modus/mandible

## Screwdriver Blades

M-2493

M-2563 °

M-2588

| Art. No. | Interface | Description | Length | Shaft end | Piece/Pkg |
|---|---|---|---|---|---|
| M-2493 | | self-holding | 12 mm | Dental | 1 |
| M-2563* | | | 12 mm | Dental | 1 |
| M-2588 | HD6 | self-holding | 13 mm | Dental | 1 |

Can be used with screw holding fork

## 1.5 - 2.5 Depth Gauge

M-2250

M-2250.1

| Art. No. | System | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2250 | 1.5 - 2.5 | | 164 mm | 1 |
| M-2250.1 | 1.5 - 2.5 | caliper needle (replacement part) | 163 mm | 1 |

## Drill Guide TriLock 2.0/2.3/2.5

| Art. No. | System | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2198 | 2.0 - 2.5 | | 125 mm | 1 |

## Plate and Screw Holding Forceps

M-2009

M-2019

| Art. No. | System | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2009 | | angled, small | 149 mm | 1 |
| M-2019 | | angled, large | 199 mm | 1 |

→ www.medartis.com/de/products/modus/mandible

## Plate Cutting Pliers


A-2046


M-2170

| Art. No. | System | Length | Piece/Pkg |
|---|---|---|---|
| A-2046 | 1.2 - 2.8 | 207 mm | 1 |
| M-2170 | 0.9 - 2.0 | 180 mm | 1 |

→ www.medartis.com/de/products/modus/mandible

## Plate Bending Pliers

M-2002

M-2006

M-2012

M-2158

| Art. No. | System | Description | Length | Piece/Pkg |
|---|---|---|---|---|
| M-2002 | 1.5 | | 152 mm | 1 |
| M-2006 | 2.0 - 2.5 | | 156 mm | 1 |
| M-2012 | 0.9 - 1.5 | with pin | 140 mm | 1 |
| M-2158 | 2.0 - 2.5 | with pin | 140 mm | 1 |

→ www.medartis.com/de/products/modus/mandible

## Holding Rack for Implant and Instrument Cases

| Art. No. | Description | Piece/Pkg |
|---|---|---|
| M-6710 | steel | 1 |

## Lid for Implant and Instrument Cases

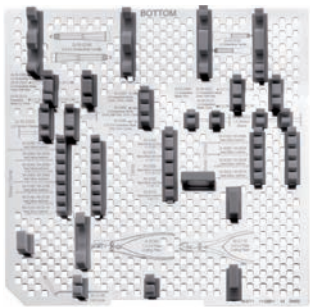

M-6706


M-6707

| Art. No. | Description | Dimension | Piece/Pkg |
|---|---|---|---|
| M-6706 | steel | 120 x 240 mm | 1 |
| M-6707 | steel | 240 x 240 mm | 1 |

## Instrument Case and Trays

M-6614




M-6711


M-6712

| Art. No. | Description | Dimension | Piece/Pkg |
|---|---|---|---|
| M-6614 | instrument case | 240 x 240 x 54 mm | 1 |
| M-6711 | instrument tray, bottom | | 1 |
| M-6712 | instrument tray, top | | 1 |

→ www.medartis.com/de/products/modus/mandible

## Implant Cases for Orthognathic Plates and Screws, 1.5/2.0 (Small, Empty)

M-6607.01

M-6608.04

M-6611.02

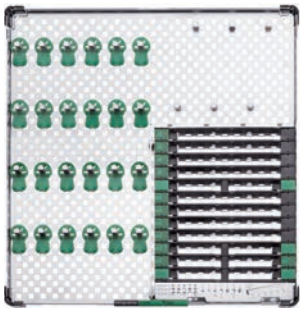
M-6615.01

M-6617.02

| Art. No. | Description | Dimension | Piece/Pkg |
|---|---|---|---|
| M-6607.01 | implant case, plates, 1.5 | 120 x 240 x 20 mm | 1 |
| M-6608.04 | implant case, plates, 2.0 | 120 x 240 x 37 mm | 1 |
| M-6611.02 | implant case, screws, 1.5/2.0 | 120 x 240 x 37 mm | 1 |
| M-6615.01 | implant case, plates/screws, 2.0 | 120 x 240 x 20 mm | 1 |
| M-6617.02 | implant case, plates/screws, 1.5 | 120 x 240 x 20 mm | 1 |

More options available on demand.

## Implant Cases for Orthognathic Plates and Screws, 1.5/2.0 (Large, Empty)



M-6601.04

M-6603.02

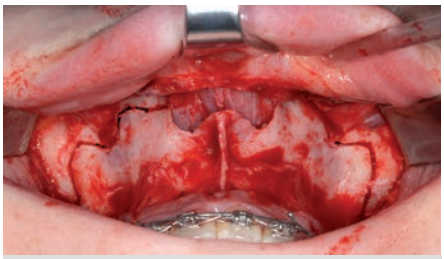
| Art. No. | Description | Dimension | Piece/Pkg |
|---|---|---|---|
| M-6601.04 | implant case, plates/screws, 1.5 | 240 x 240 x 20 mm | 1 |
| M-6603.02 | implant case, plates/screws, 2.0 | 240 x 240 x 37 mm | 1 |

More options available on demand.

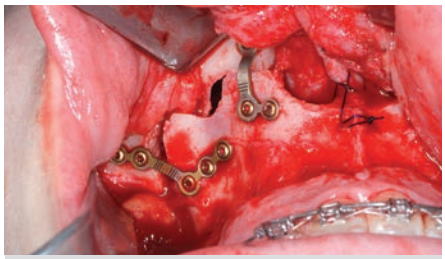
# Clinical Examples

## Case 1 - Maxillary forward displacement

Preoperative image

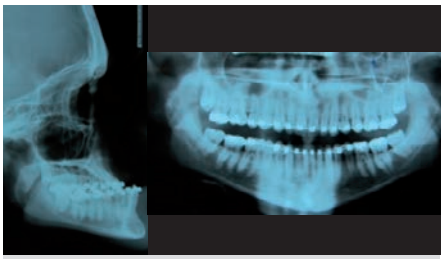


Intraoperative view of a LeFort I osteotomy

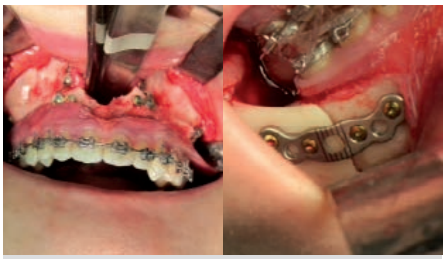


Postoperative result
Osteosynthesis with 1.5 L and Z plates

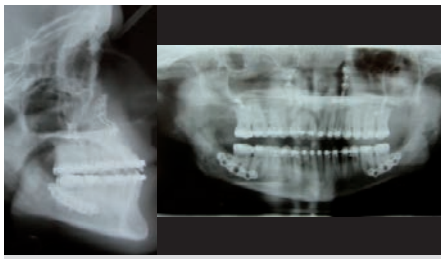
## Case 2 - Bimaxillary repositioning osteotomy with 2 closed sagittal split plates



Preoperative X-ray of maxillary retrognathism together with mandibular progenism

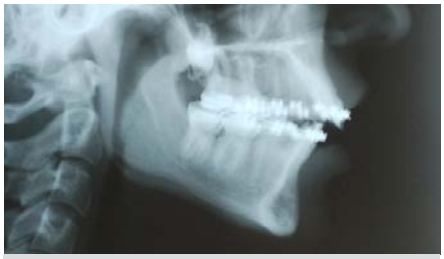


Maxillary forward displacement and fixation with 1.5 LeFort plates and SpeedTip screws
Semi-rigid fixation after mandibular backward displacement



Postoperative X-ray with optimal occlusion

## Fall 3 – Bimaxillary repositioning osteotomy with 2 open sagittal split plates



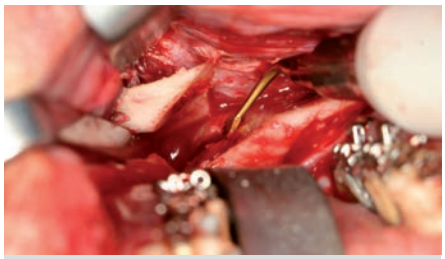
Preoperative X-ray of retrognathism

Intraoperative view
Sagittal split osteotomy of the mandible, IMF, osteosynthesis with 2 open sagittal split plates

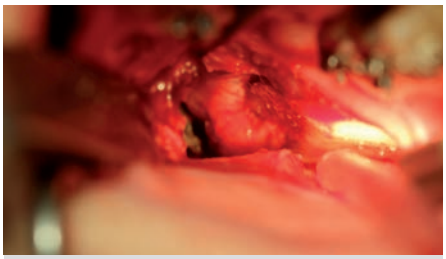
Postoperative result

→ www.medartis.com/de/products/modus/mandible

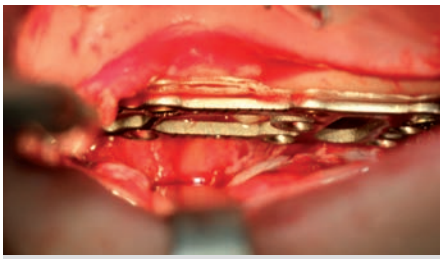
## Case 4 - Low-high oblique osteotomy



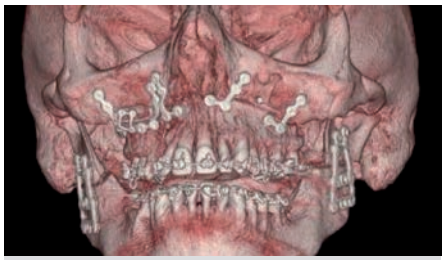
The low-high piezoelectric osteotomy developed on the basis of the Schlössmann high-oblique osteotomy (Schlössmann & Perthes in 1924) is performed from lateral caudal to lingual cranial
An osteotomy is performed from lateral inferior to medial superior above the inferior alveolar nerve, visualized lingually with the Cottle rasp, thus preserving the nerve
The fragments diverge spontaneously due to muscle tension (pterygoid muscles and temporal muscle) after complete piezoelectric osteotomy



The intact nerve is then evident to the lingual side entering the tooth-bearing segment



After ultrasound or manual adjustment of the joint-bearing segment, provisional fixation is performed using 4 screws near to the osteotomy split, the intermaxillary fixation is released and the occlusion checked



Postoperative 3D CT position check after complete osteosynthesis

## Case 5 - Genioplasty

Preoperative X-ray

Forward displacement of the tip of the chin by 5 mm

Postoperative result

Clinical cases by kind permission:
Case 1: Dr. Philipp Jürgens, Basel, Switzerland I Case 2: Mr. Tim Lloyd, London, UK I Case 3: Prof Dr. Dr. Mario F. R. Gabrielli, Araraquara, Brazil I Case 4: Prof. Dr. Dr. Constantin Landes, Frankfurt, Germany I Case 5: Prof. Dr. Maciej Jagielak, Warsaw, Poland

→ www.medartis.com/de/products/modus/mandible

**HEADQUARTERS**

Medartis AG | Hochbergerstrasse 60E | 4057 Basel/Switzerland

P +41 61 633 34 34 | F +41 61 633 34 00 | www.medartis.com

**SUBSIDIARIES**

Australia | Austria | France | Germany | Mexico | New Zealand | Poland | UK | USA

For detailed information regarding our subsidiaries and distributors, please visit www.medartis.com