

Medartis Product Overview

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For detailed information regarding our subsidiaries and distributors,
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For US only: Federal law restricts this device to sale by or on the order of a physician.



Introduction Medartis

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For further information regarding the MODUS product line see:
www.medartis.com/products

Medartis, headquartered in Basel, Switzerland, specializes in technical high-precision implant systems for surgical fixation of bone fractures and osteotomies.

Medartis develops, manufactures and sells titanium screws and plates, surgical instruments and system solutions for fracture fixation in the facial skull and the extremities.

Our motto is «Precision in fixation». Since the company's founding in 1997, we place the highest priority on maintaining stringent quality standards, continuous further development and innovation as well as comprehensive service provision.

Thanks to the exclusive cooperation with the International Bone Research Association (IBRA), we can combine the latest scientific knowledge with Medartis' high-tech engineering and manufacturing. Our common goal: scientifically substantiated treatment solutions that enable fast, complete rehabilitation and thus make a permanent contribution to a better patient quality of life.

Medartis is represented worldwide through its subsidiaries and a broad distributor network.



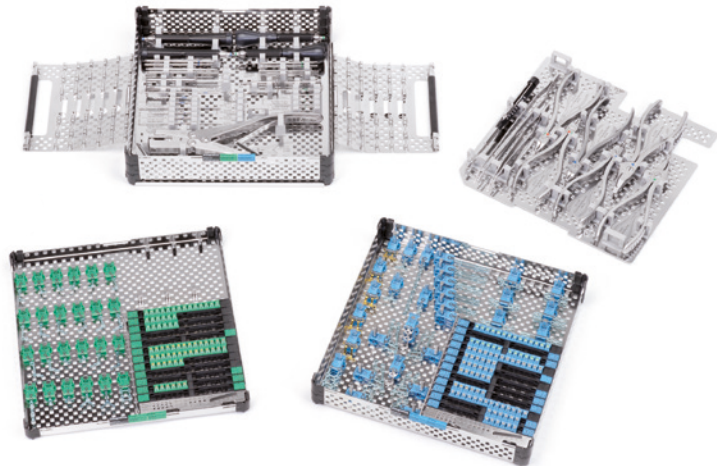
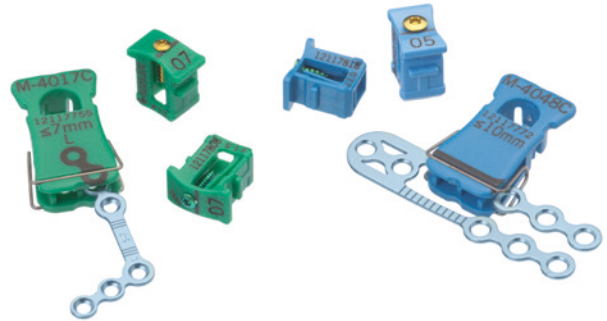
Clinical Benefits of the MODUS Plates and Screws Range

- Anatomical plate designs
- Indication-specific plates
- Low overall profile height and rounded plate contour
- Self-tapping screws with precise and sharp thread
- Increased torsional, bending and shear stability due to conical core
- Smooth screw head design without sharp edges
- Consideration of different osteosynthesis philosophies
- Plates may be cut and bent for a wide range of applications



System-Specific Benefits

- Simple and flexible
- User-specific systems
- LOT traceability for each implant



MODUS Orthognathics 1.5/2.0 available in the clip system

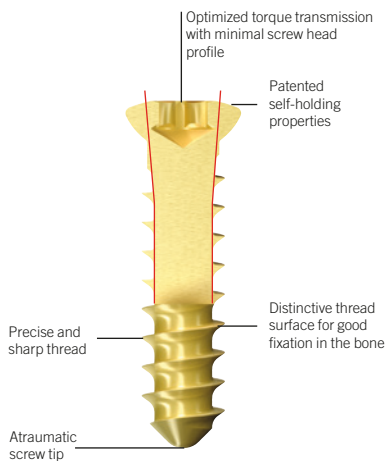
TriLock Locking Technology

- Multidirectional ($\pm 15^\circ$) and angular stable TriLock locking system
 - Spherical three-point wedge-locking
 - Friction locking through radial bracing of the screw head in the plate – without additional tensioning components
- TriLock screws can be re-locked in the same plate hole under individual angles up to three times
- Minimal screw head protrusion thanks to internal locking contour
- No cold welding between plate and screws during use
- Intra-operative fine tuning capabilities



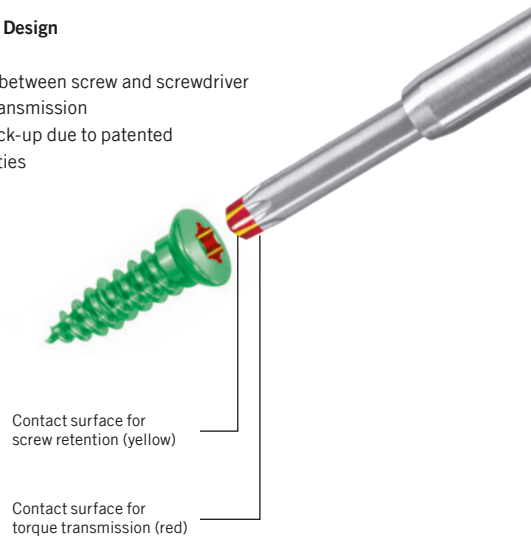
Cortical Screws

- Smaller pitch of short screws enables improved fixation in the bone
- Larger pitch of long screws for reducing the amount of revolutions
- Increased torsional, bending and shear stability due to conical core



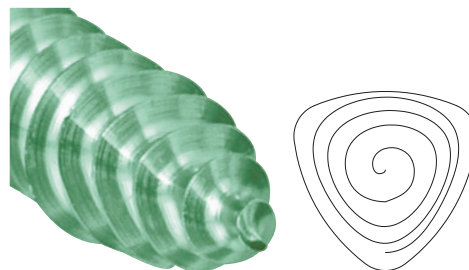
HexaDrive Screw Head Design

- Secure connection between screw and screwdriver
- Increased torque transmission
- Simplified screw pick-up due to patented self-holding properties



SpeedTip Thread Design

- 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 due to the polygonal tip and tapered shaft



MODUS® 0.9/1.2

Trauma 0.9/1.2

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Cranial trepanations
- Cranial fractures of the skull
- Fractures in the nasal and orbital region
- Fractures in the zygoma region

System Components

- Cross-drive screws
- 0.9/1.2 mm self-tapping cortical screws
- Plate thickness 0.5 mm



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MODUS® 1.5

Trauma 1.5

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

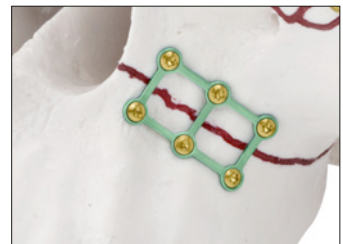
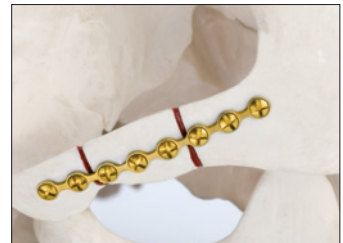
- Cranial fractures of the skull
- Central and lateral fractures of the midface
- Maxillary osteotomies

System Components

- HexaDrive and cross-drive screws
- 1.5/1.8 mm self-tapping cortical screws
- 1.5 mm SpeedTip screws (self-drilling)
- Plate thickness 0.6 and 0.7 mm (orbital floor: 0.3, 0.35 and 0.4 mm)
- Rigid and semi-rigid plates



1:1



Orbital Plating System OPS 1.5

Fixation of orbital floor and orbital wall fractures > 1.5 cm²

System-Specific Benefits

- Flexible pure titanium allows the reconstruction of the orbital structure
- Bars facilitate burr-free cutting
- Midface model and forming instrument support fast contouring of the plate

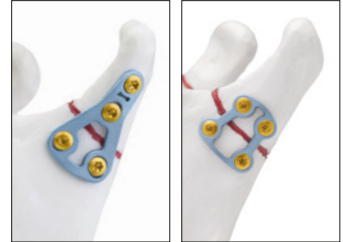
Neuro 1.5

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Burr hole covering
- Fixation of bone flaps
- Cranial fractures of the skull

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Cranial and maxillofacial fractures of the skull
- Maxillary and mandibular osteotomies

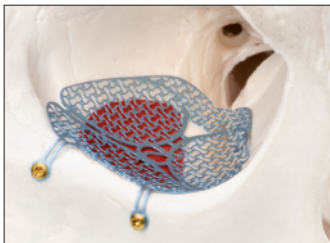
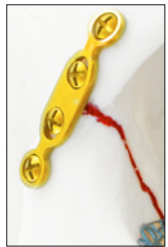
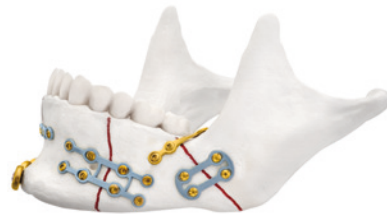


System Components

- HexaDrive and cross-drive screws
- 2.0/2.3 mm self-tapping cortical screws
- 2.0 mm SpeedTip screws (self-drilling)
- Plate thickness 1.0 mm
- Rigid and semi-rigid plates



1:1



Condylar Head Fracture System CFS 1.8

Stabilization of diacapitular/intracapsular condylar neck fractures with both intra-articular and extra-articular fracture lines according to Neff et al.

System-Specific Benefits

- Osteosynthesis using small fragment screws over the lateral condylar pole
- Repositioning hook facilitates guiding of the large fragment close to the joint



Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Unstable fractures of the mandible
- Multi-segment and comminuted fractures
- Fractures with loss of bone substance
- Dislocated fractures of the body of the mandible and angular fractures

System Components

- Cross-drive screws
- 2.5/2.8 mm self-tapping cortical screws
- 2.5 mm lag screws
- Plate thickness 1.6 mm



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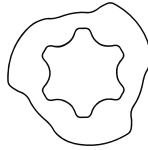


MODUS®

TriLock 2.0/2.3/2.5

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Condylar neck fractures
- Mandibular angle fractures
- Symphysis fractures
- Fractures of the atrophic mandible
- Fractures of the orbita and zygoma complex



TriLock®

System Components

- HexaDrive screws
- 2.0/2.3/2.5 mm TriLock screws
- 2.3 mm TriLock cancellous screws
- 2.0/2.3 mm self-tapping cortical screws
- 2.0 mm SpeedTip screws (self-drilling)
- Plate thickness 1.0, 1.3 and 1.5 mm
- Simplified instrumentation – 1 HD screwdriver for all screw types



1:1



MODUS®

Reco 2.5

Fixation of fractures, osteotomies and reconstructive procedures that require positional and functional stability, e.g.:

- Reconstructive surgery for bridging defects in bone continuity in the mandible after:
 - Resection of tumors
 - Resection for osteoradionecrosis
 - Resection for osteomyelitis
 - Removal of fractured conventional plates
 - Fixation of bone grafts
- Trauma
 - Fixation of comminuted or defect fractures

System Components

- Cross-drive screws
- 2.5/2.8 mm self-tapping cortical screws
- 2.5/2.8 mm locking screws
- 2.8 mm cancellous locking screws
- Plate thickness 2.5 mm
- Temporary condylar head prosthesis

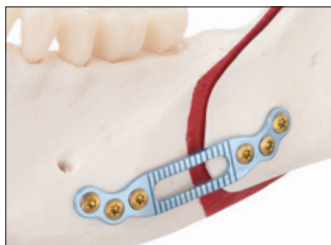


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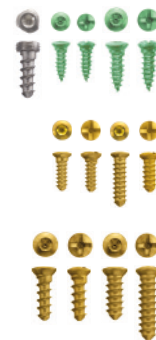
Mandibular and maxillary (midface) osteotomies e.g.:

- LeFort I, II and III
- Ramus and corpus osteotomies
- Genioplasties



System Components

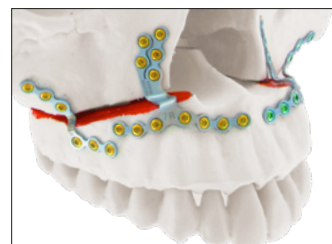
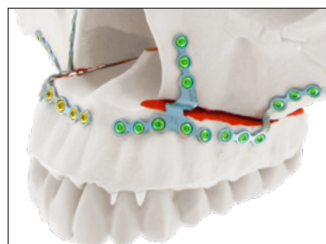
- HexaDrive and cross-drive screws
- 2.0 mm TriLock screws
- 1.5, 2.0 mm SpeedTip screws (self-drilling)
- 1.5/1.8, 2.0/2.3 mm self-tapping cortical screws
- 2.0 mm self-drilling IMF screws (optional)
- Plate thickness 0.6–1.0 and 1.3 mm
- Rigid and semi-rigid plates
- Available as clip system (see chapter «Clip System»)



System-Specific Benefits

- Indication-specific plates to cover different approaches to surgery:
 - Ramus plates for 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 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
- Laser markings as an orientation guide for bending the plates and to determine the width of the osteotomy gap

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Intermaxillary Fixation System IMF 2.0

System Components

- HexaDrive and cross-drive screws
- 2.0 IMF SpeedTip screws with/without plateau
- Titanium arch bar



1:1

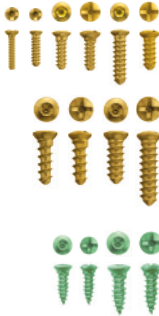


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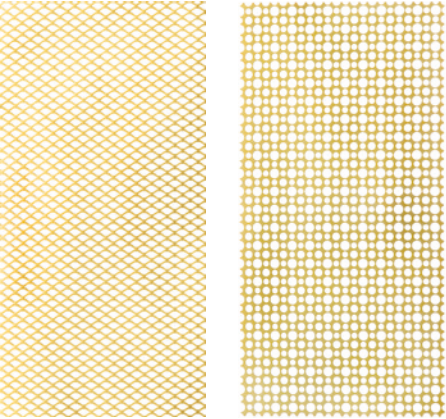


System Components

- HexaDrive and cross-drive screws
- 0.9/1.2, 1.5/1.8, 2.0/2.3 mm self-tapping cortical screws
- 1.5, 2.0 mm SpeedTip screws (self-drilling)
- Mesh thickness 0.1–0.3 mm in different sizes



1:1



MODUS® Dental Systems

BFS 0.9/1.2, 1.5 TTS

Bone Fixation Set BFS 0.9/1.2, 1.5

System Components

- HexaDrive and cross-drive screws
- 0.9/1.2, 1.5/1.8 mm self-tapping cortical screws
- 1.5 mm SpeedTip screws (self-drilling)



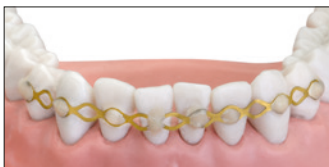
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TTS - Titanium Trauma Splint

Stabilization of traumatized or replanted teeth

System Components

- TTS titanium tooth splint 0.2 mm
- 2 lengths available



System-Specific Benefits

- Simple adaptation, fixation and removal
- Splints can be cut or bent easily
- Optimized splint design

3:4

MODUS® Special Instruments

90° Screwdriver System

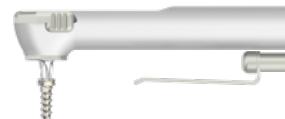
Intraoral drilling and screw insertion

System Components

- Screwdriver complete with rotation knob and screwholding fork
- Screwdriver for use as drill
- Storage module for blades and twist drills with color code for 1.5 and 2.0 implant systems

System-Specific Benefits

- Low head height for more flexibility of movement
- Removable holding fork for intraoral plate and screw positioning
- Simple disassembly for automatic cleaning and sterilization
- Clear storage solution for fast and flexible use
- Removable storage module for screwdriver blades and twist drills



Transbuccal Set TBS 2.0/2.3/2.5

Osteosynthetic treatment of posterior
mandible fractures

System Components

- 2 different protection sleeves
(Ø 4.5/6.0 mm) for MODUS 2.0,
MODUS TriLock 2.0/2.3/2.5,
MODUS Trauma 2.5
- Intra- or extraoral cheek retractor,
trocars, drill guides and twist drills

System-Specific Benefits

- Modular design with quick release
fasteners
- Free combination of possibilities
between intra- and extraoral cheek
holders



Medartis Loan Service

The MODUS systems are also available as a loan set.

Contact Addresses

For further information on the MODUS system, please contact:

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