MatrixMANDIBLE Preformed Reconstruction Plates. Preshaped to the mandibular anatomy.

Anatomically preformed plates

Significantly increased fatigue life compared to traditional (non-preformed) plates

Reduces OR time
MatrixMANDIBLE Preformed Reconstruction Plates are preshaped to the anatomy of the mandible. Their shape was obtained by statistical analysis of data derived from more than 2,000 CT scans originating from various adult populations.* This resulted in three plate sizes that address the majority of mandibles.*

The general anatomic shape of the MatrixMANDIBLE Preformed Reconstruction Plates can save time in the OR by reducing the number of bends required to completely contour the plate when compared to a traditional (non-preformed) reconstruction plate.*

The combination of anatomic design and manufacturing processes limits stress in the plate compared to classical intraoperative bending of a traditional (non-preformed) plate. The minimal intraoperative bending that may be required preserves the optimal threaded hole shape, with no deformation of holes in the preformed sections.

These features result in a plate which has a significantly increased fatigue life when compared to traditional (non-preformed) reconstruction plates.**

Preformed Plate Development Process:

*Data on file at Synthes.

**Testing was done to compare 2.5 mm thick MatrixMANDIBLE Reconstruction Plates to 2.5 mm thick MatrixMANDIBLE Preformed Reconstruction Plates. The plates were fixtured in a cantilever manner with a cyclical load between 13.9 N and 139 N applied to the vertical aspect of each plate. The plates were cyclically loaded until either failure or runout at 1,000,000 cycles. The traditional (non-preformed) reconstruction plates failed on average at 28,880 cycles while the preformed plates achieved runout at 1,000,000 cycles. Mechanical testing is not indicative of clinical outcomes.
Indications: The Synthes MatrixMANDIBLE Preformed Reconstruction Plates are intended for use in oral and maxillofacial surgery, trauma, and reconstructive surgery. This includes primary mandibular reconstruction, comminuted fractures and temporary bridging pending delayed secondary reconstruction, including fractures of edentulous and/or atrophic mandibles, as well as unstable fractures.†

<table>
<thead>
<tr>
<th>Features</th>
<th>Benefits</th>
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<tbody>
<tr>
<td>– Anatomically preformed plates</td>
<td>– Minimizes stress in the plate resulting in significantly increased fatigue life compared to traditional (non-preformed) plates**</td>
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<td>– Smooth continuous plate section through the body and angle</td>
<td>– Reduces OR time</td>
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<td>– Light blue color follows the MatrixMANDIBLE color scheme</td>
<td>– Limits hole deformation that results from extensive bending</td>
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<td>– Sizes cover 2/3 of the mandible perimeter, from ramus past the contralateral mental foramen</td>
<td>– Addresses the majority of tumor resections</td>
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<tr>
<td>– 2.5 mm thick plate available in three sizes: small, medium, large (right/left in each size)</td>
<td>– Addresses the majority of mandibles*</td>
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<td>– Threaded hole plates</td>
<td>– Facilitates identification of optimal screw diameter and instruments</td>
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<td>– Designed for use with MatrixMANDIBLE screws and instruments</td>
<td>– Allows use of locking or nonlocking screws</td>
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<tr>
<td>– Compatible with Condylar Head Add-on System</td>
<td>– Integrates easily with the available systems</td>
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† Plate fractures are possible when any plate bears the entire functional load for extended periods. Therefore the implantation of bone graft immediately, or at a later date, is necessary to support the construct.

MatrixMANDIBLE Preformed Reconstruction Plate Set (01.503.900)

Graphic Cases and Modules
60.503.900 Module for MatrixMANDIBLE Preformed Reconstruction Plates and Instruments, with lid

Instruments
Sizers, for use with 2.5 mm thick MatrixMANDIBLE Reconstruction Plates
03.503.900 Small, right
03.503.901 Small, left
03.503.902 Medium, right
03.503.903 Medium, left
03.503.904 Large, right
03.503.905 Large, left

Bending Templates for MatrixMANDIBLE Preformed Reconstruction Plates
03.503.910 Small
03.503.911 Medium
03.503.912 Large

Implants
Titanium MatrixMANDIBLE Preformed Reconstruction Plates, 2.5 mm thick, 2 ea.
04.503.900 Small, right
04.503.901 Small, left
04.503.902 Medium, right
04.503.903 Medium, left
04.503.904 Large, right
04.503.905 Large, left

Required Set
01.503.150 MatrixMANDIBLE Implant and Instrument Set

Also Available
01.449.002 Condylar Head Add-on System Set
03.503.077 MatrixMANDIBLE Plate Bending Iron, left
03.503.078 MatrixMANDIBLE Plate Bending Iron, right
311.004 Fixed-Swivel Screwdriver Handle
60.503.901 Lid for MatrixMANDIBLE Preformed Reconstruction Module

Note: For additional information, please refer to package insert. For detailed cleaning and sterilization instructions, please refer to http://us.synthes.com/Medical+Community/Cleaning+and+Sterilization.htm or to the below listed inserts, which will be included in the shipping container:
– Processing Synthes Reusable Medical Devices—Instruments, Instrument Trays and Graphic Cases—DJ1305
– Processing Non-sterile Synthes Implants—DJ1304

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