Mandibula 15-Channel Dental Coil

High-Resolution Imaging for Diagnostics in Orthodontics

Our Mandibula 15-Channel Dental Coil is a multi-element receive array and positioning system for three-dimensional (3D) high-resolution dental and maxillomandibular MRI images. Also it ensures maximum patient comfort due to its design and accessories like a patient rest pillow, an open-mouth fixation mechanism and a both direction mirror.

Additional application areas for the NORAS Mandibula 15-Channel Dental Coil are:
- Orthodontia (instead of x-ray)
- Diagnostics of the jaw joint
- Imaging of periodontium and dental pulp
- Implantology
- Imaging of nerves (foramen mentale)
- Bone density (compacta, spongiosa)
- Forensics (age estimation through wisdom tooth)
- Maxifacially imaging (e.g. search for tumors)
- Larynx
- Inflammation
Advantages of the Mandibula 15-Channel Dental Coil in MR Diagnostics

- High resolution dedicated MR imaging in dental area
- Highest resolution movement studies of the jaw joint
- Coil element underneath chin can be moved in and out for motion studies, e.g. on the jaw joint
- Easy to position and adjustable for each patient
- Excellent patient comfortability (especially for children during examination)
- Reduced scan times with higher image quality as compared to standard coils
- Optional mirror attachable for claustrophobic patients
- Minimized unwanted signal distortions (vibration, movement etc.)
Easy Work Flow

Step 1 - Place unit on MR table and plug in cables before patient arrives
Step 2 - Place patient’s head between pillars (supine)
Step 3 - Lower coil housing towards patient’s face
Step 4 - Position coil’s flexible sides close to the patient’s cheeks
Step 5 - Move Butterfly-Coil-Element underneath chin. For motion studies, this element can be moved away

Technical Specifications

<table>
<thead>
<tr>
<th>Field Strength</th>
<th>Size in cm</th>
<th>Weight in kg</th>
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<tbody>
<tr>
<td>1.5, 3T</td>
<td>28 x 40 x 30</td>
<td>5</td>
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**Scanner Compatibility**

The Mandibula 15-Channel Dental Coil from NORAS is compatible to all Siemens Tim® Systems. NORAS is currently working on compatible solutions for other manufacturers of MR scanners. Kindly contact us in case you have any questions regarding the compatibility of the NORAS Mandibula Coil for your scanner.

The Mandibula 15-Channel Dental Coil is currently under development and thus not commercially available yet. To obtain information about the present status of development, please send an e-mail to info@noras.de.


NORAS – Your partner for innovative solutions in MR Imaging

Since more than 30 years NORAS MRI products GmbH is a reliable partner for high resolution imaging in MR-based diagnostics and intervention. Kindly get in touch with us in order to learn more about the application areas of our solutions for your MR-based tasks.