Atlantis® CAD/CAM patient-specific abutments

Key features
• Atlantis® abutments are patient-specific products for cement-, screw-, and attachment-retained implant restorations
• Atlantis® abutment BioDesign Matrix featuring:

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
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<tbody>
<tr>
<td>Virtual Atlantis Design (VAD)</td>
<td>for high precision and a more natural esthetic result</td>
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<tr>
<td>Natural Shape</td>
<td>for optimal support and retention of the final restoration</td>
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<tr>
<td>Soft-tissue Adapt</td>
<td>for optimal support for soft-tissue sculpturing and adaptation to the finished crown</td>
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<tr>
<td>Custom Connect</td>
<td>for strong and stable fit</td>
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• Available for all major implant systems comprised in the Atlantis implant compatibility charts, including Ankylos, Astra Tech Implant System and Xive.

Clinical results
The clinical use of Atlantis abutments has been described in case reports 1-30 and clinical studies 31-51, where esthetic results for titanium 3-12, 18, 34, 35, 37, gold-shaded titanium 20, 21, 33, 34, 37, 39, and zirconia 3-17, 32, 35-38, 45-50 abutments are reported. Clinical documentation on the Atlantis abutment reports on re-establishment and maintenance of the papilla 7, 13, 31, 34, 49, 50, establishment of an optimal soft tissue contour and emergence profile 3, 8, 11, increased pink esthetic score 48 and patient satisfaction 7, 19, 32, 35.

Experimental results
Experimental studies report on different aspects of the Atlantis abutments 52-66; including ideal fit between abutment and implant 52, 53, accuracy of fabrication 57, and ideal fit and retention of copings 54. Moreover, good mechanical properties, including strength and probability to survive occlusal forces, have been reported for the Atlantis abutment in zirconia 57, 60.

Clinical advantages with using Atlantis® abutments
Scientific literature on Atlantis customized abutments have shown several clinical advantages such as:
• Reduced chairtime 12
• Cost-effective and simplified treatment procedures 10
• Reduced number of impression taking with duplicate abutments 3-5, 11
• Compatibility and success when combined with several different implant interfaces 50
References


