Sports Surgery Line

For more than 20 years, our philosophy has been to develop performing and safe solutions for regenerative surgeries. Backed by this extended clinical background, we invite you to discover our innovative and unique Sports Surgery Line. Join us into the new era, When Innovation Meets Performance.

Our MBCP™ Technology

More than 650 published studies, with 30 years of clinical experience

Biomatlante’s Bone Scaffolds have evolved to meet new biotechnological requirements stemming from tissue engineering where surgeons need to combine scaffolds with biological fluids (bone marrow or mesenchymal stem cells) or active agents.

Biomatlante leads the way in the development of synthetic bone scaffolds for use in numerous research programs seeking to improve outcomes for particularly challenging patients.

The performance of MBCP™ is characterized by:
• Equivalent clinical outcome to autologous bone graft;
• Fewer wound healing problems than autologous grafts;
• Avoidance of donor site pain and infections;
• No allergenic reactions1.

100 µm
2 µm

Level Title Authors Study Type Patients Randomized & Controlled

Osteotwin™ was designed to fulfill two core aims: provide appropriate mechanical properties necessary for ligament reconstruction whilst ensuring a regulated resorption and osteointegration to form architectural bone through hydrolysis.

**Design**

The thread is specific to each screw diameter so as to systematically provide the maximum amount of contact between implant and bone.

- **Specific design thread for optimal contact**
- **Smooth thread to minimize damage on ligament**
- **Graduated tapered design to optimize torque**

Specific screwdriver connection design to provide optimal distribution of force.

The mean failure torque for Osteotwin™ is 6 N.m, whereas other leading implants show a breakage rate of 5 and 5.3 N.m.

Knee Cruciate Ligament Reconstruction
Attachment of soft tissue grafts or bone-tendon-bone grafts to the tibia and/or femur.
Polylactic & Composite Screws

75% PLDLLA & 25% BCP: the ideal ratio between the necessary mechanical resistance for the indication and the faculty to generate bone growth.

**KEY FEATURES**

<table>
<thead>
<tr>
<th>Biocompatible</th>
<th>No rejection</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bio absorbable</td>
<td>Non obstructive, in event of revision</td>
</tr>
<tr>
<td>Metal-like mechanical properties</td>
<td>Necessary for indication requirements</td>
</tr>
<tr>
<td>Polymer &amp; Ceramic</td>
<td>Bioactive³</td>
</tr>
<tr>
<td>pH Neutral</td>
<td>No reported cases of inflammation or cysts (out of 30,000 cases)</td>
</tr>
<tr>
<td>Positive clinical response</td>
<td>Architectural bone growth</td>
</tr>
<tr>
<td>MBCP™ Technology</td>
<td>Greater corticalization*</td>
</tr>
</tbody>
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**KEY BENEFITS**

- Biocompatible
- No rejection
- Bio absorbable
- Non obstructive, in event of revision
- Metal-like mechanical properties
- Necessary for indication requirements
- Polymer & Ceramic
- Bioactive³
- pH Neutral
- No reported cases of inflammation or cysts (out of 30,000 cases)
- Positive clinical response
- Architectural bone growth
- MBCP™ Technology
- Greater corticalization*/
Affix Sheath

Osteotwin™ Affix Sheath is an innovative and unique Tibial Fixation Device.

Affix Sheath is designed to increase soft tissue fixation in ACL reconstruction surgery. Using Affix Sheath guarantees superior fixation strength* and greater graft protection.

Design

- Interior threading can be used with both Polylactic and Composite screws
- Rotational locking system during screw insertion
- Guide wire friendly

*Tested in a porcine tibia with human hamstring tendon*
*All screws lengths: 25 mm*
Product References

Screws

<table>
<thead>
<tr>
<th>Length</th>
<th>Diameter</th>
<th>7 mm</th>
<th>8 mm</th>
<th>9 mm</th>
<th>10 mm</th>
<th>11 mm</th>
<th>12 mm</th>
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<tr>
<td>20 mm</td>
<td>Composite</td>
<td>11CPVI0720</td>
<td>11CPVI0820</td>
<td>11CPVI0920</td>
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<td></td>
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<tr>
<td></td>
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<td>13PVI0820</td>
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<tr>
<td></td>
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<td>13PVI0725</td>
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<td>13PVI1025</td>
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<tr>
<td>35 mm</td>
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<td>15CPVI1235*</td>
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Sheaths

<table>
<thead>
<tr>
<th>Diameter</th>
<th>Reference</th>
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</thead>
<tbody>
<tr>
<td>7 - 8 mm</td>
<td>14CPCH0725</td>
</tr>
<tr>
<td>9 - 10 mm</td>
<td>14CPCH0925</td>
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</tbody>
</table>

Class III Medical Device
According to EU Directive EEC/93/42
Osteotwin™ Instrumentation Kits have been developed with two main goals in mind: insure the quality of surgical procedures with dedicated high quality tools; and save you time during surgical procedures with color coding. These Instrumentation Kits are fully customizable.

**Osteotwin™ Kits**

**Modular Screw System**

- **Rachet Handle**
- **Screwdriver Shaft**
- **Starter Tap Shaft**
Classical Screw System

- **Tunnel Dilator Screw**
- **Screwdriver**

Dilator Screw System

- **Tunnel Dilator Screw**

Sheath Instrumentation

- **Dilator Sheath**
- **Inserter Sheath**
Osteotwin™ High Tibial Osteotomy

MBCP™ Wedges

Made of MBCP™, the reference in osteoconductive bone graft substitute, they are a biphasic calcium phosphate made of 60% hydroxyapatite (HA) and 40% Beta-Tricalcium Phosphate (ß-TCP), allowing for simultaneous controlled adsorption and promotion of osteogenesis.

- Controlled resorption, osteogenic and osteoconductive
- Custom design — Standard design
- 20 years of proven efficacy

While MBCP™ Wedges have a high compressive force of 10-12MPa, they are intended for use with rigid fixation systems.†

Biomatlante recommends these HTO plate specialists:
References & Bibliography


* Data on files, Biomatlante

Osteotwin™ Technology


* Data on files, Biomatlante

Notes

• Read instructions for use for a complete list of warnings, precautions, possible adverse events and other important medical information.
• Not all products are registered or available in every country/region. Please check with Biomatlante representative for availability and further information.

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Backed by 20 years of experience in the development and manufacturing of synthetic bone substitutes, Biomatlante readily meets the challenge of constantly evolving its product line to meet today’s market demands for new, more effective, generations of biomaterials and smart scaffolds for tissue regeneration and minimally invasive surgical technologies.

Our Values

Commitment
We are committed to our industry – we feel we have a bond with physicians and patients alike.

Integrity
We treat people fairly and expect the same in return.

Quality
We are committed to providing products of the highest quality – We never compromise!

Passion
We love what we do. Innovative bone regeneration solutions are truly our passion.

Biomatlante
5 rue Édouard Belin
Z.A. Les Quatre Nations
44360 Vigneux-de-Bretagne
France
+33 (0)2 28 02 00 09
contact@biomatlante.com
www.biomatlante.com