

OrthoApnea

Orthobrux 3D Nylon Splint

Accuracy and Precision
in Action



The solution for Bruxism and TMJ issues



A combination of 3D software, the latest printing technology, and a new material characterized by its strength, lightweight, and resistance.

The new splint from Ortoplus protects the teeth by preventing contact and helps relax the jaw muscles, allowing the temporomandibular joint (TMJ) to move freely without premature contacts.

Accumulated jaw tension causes the muscles of the craniomandibular complex to suffer, manifesting in the form of pain or joint abnormalities. Dental wear may also occur due to involuntary jaw movements (bruxism) resulting from muscle tension and/or stress. The foundation of the

treatment involves restoring the balance between muscles, teeth, and joints through the use of different types of occlusal splints.

The splint's function is to prevent overloading the muscles and joints of the jaw. Additionally, it is responsible for absorbing forces and protecting dental contact to prevent wear and damage to dental structures.

Features



Precise control of all parameters that enable an exact finish

Resistance

The splint has high resistance to wear, forces within the mouth, and other impacts.

Material

Manufactured from Polyamide 12 (Polylaurinlactam, CAS No. 25038-74-8). A material certified as biocompatible Class IIa.

Thickness

The splint is designed with a thickness of 1.2 mm, favoring the reduction of the vertical dimension.

Finishing

The surface finish of the splint allows us to maintain the original color, preventing the accumulation of bacterial plaque and alterations caused by the passage of time.

Occlusal Contact

The splint provides good sliding properties when the patient makes involuntary movements.

Comfort

The design and adaptability of the material make the splint very lightweight and comfortable during use.



Possibility of configuration in biocompatible resin material

Options

It allows different degrees of configuration and customization according to the doctor's criteria.

Types of Occlusal Splints



MICHIGAN SPLINT

Treatment for bruxism, muscular pain, and TMJ discomfort.



MANDIBULAR ADVANCEMENT

Treatment for temporomandibular joint disc displacement.



CENTRIC JAW RELATION

Treatment for muscular pain, TMJ issues, and occlusal abnormalities.

Design



CANINE GUIDANCE

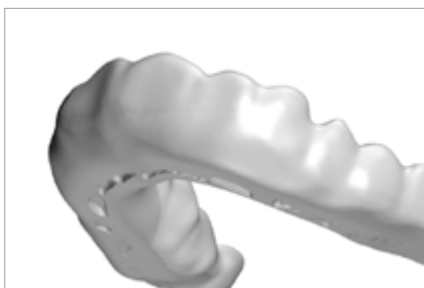


CANINE AND ANTERIOR GUIDANCE

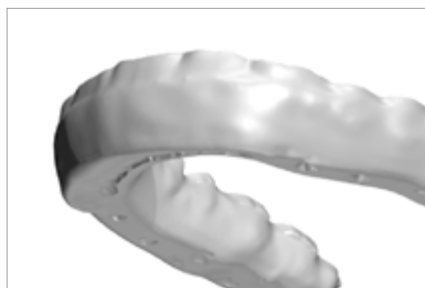


FLAT SPLINT

Finishing



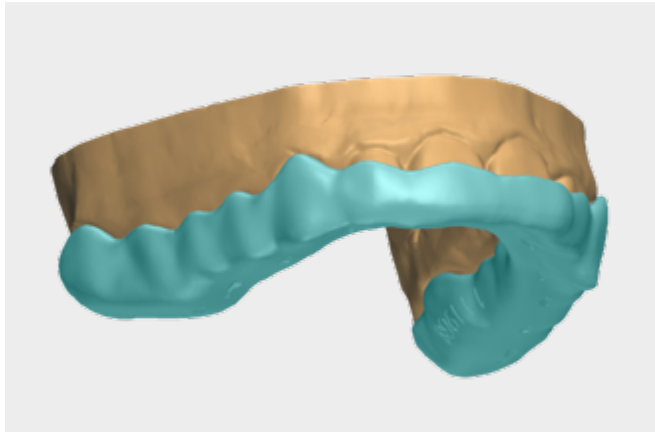
SCALLOPING



STRAIGHT

Technology

The Nylon Splint is developed through a CAD/CAM process, ensuring a higher degree of retention, precision, and adaptation to the patient.



CAD Process
Computer-Aided Design

The splint is computer-designed (CAD) based on virtual models of the patient, providing several advantages

Design

Thanks to the integration of digital software, we can develop a completely personalized design for each patient with high precision.

Patient's Articulation

The planning is carried out based on the patient's temporomandibular joint to achieve uniform contacts and optimal movement.

Retention

The retention of each dental piece is calculated in the digital planning and relieved in the corresponding areas to achieve a perfect fit on the patient's mouth. This helps avoid pressure zones or issues with placement/extraction.



CAM Process
Manufactured through 3D Printing

The splint undergoes a digital manufacturing process (CAM). For this, we use our state-of-the-art 3D printers.

Ultra Precision

Our technologies provide a robust and reliable solution that minimizes the possibility of human error, producing ultra-precise and detailed models.

Biocompatibility

All our printing processes are certified with Class IIa biocompatibility, ensuring that its placement in the mouth can be permanent without any risk.

High Production

Our industrial-capacity printers allow for very high production, ensuring the delivery of the splints in just a few days.

Patient

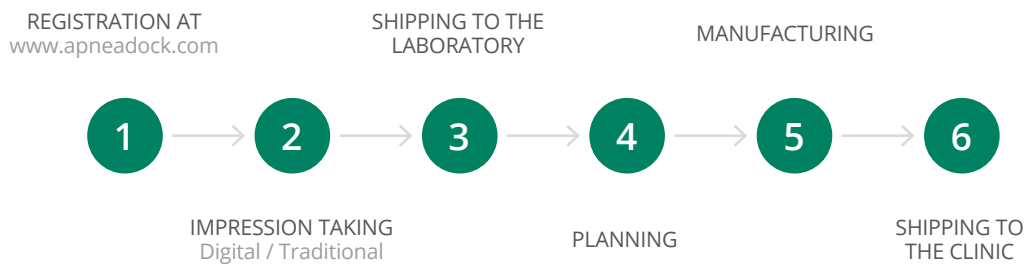
Experience and the use of the most advanced technologies have allowed us to optimize processes with superior quality standards, reducing timelines to provide your clinic and patients with the best solution.

BENEFITS FOR THE PATIENT

- Custom-made
- Wear and breakage-resistant
- Comfortable and lightweight
- Bruxism control
- Good retention
- Relieves TMJ
- Maintains color over time
- Reduces bacterial plaque buildup



How to request the splint



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