

# SLEEP APPLIANCE THERAPY | CHAIRSIDE GUIDE



	<b>Panthera</b>  D-SAD™	<b>SomnoDent®</b>  SomnoDent® Standard and FLEX	<b>SomnoDent®</b>  SomnoDent® Fusion™ and Herbst Advanced™	<b>Thornton Adjustable Positioner® (TAP) Appliance</b>			<b>EMA®</b>
				TAP® 1 + Elite	dreamTAP®	TAP® 3	
<b>DESIGN FEATURES</b>							
<b>Description</b>	<ul style="list-style-type: none"> <li>CAD CAM U/L bite splints connected with titrated rods</li> <li>Small device</li> <li>Biocompatible</li> <li>Minimal bulk</li> <li>No porosity</li> <li>Hydrophobic</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L full-coverage bite splints with side ramps and buccal-placed advancing screws</li> <li>Clasp retained (Except FLEX)</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L full-coverage bite splints with side ramps and buccal-placed interchangeable wing for advancement (Fusion)</li> <li>Clasp retained (Herbst)</li> <li>Calibrated screw for adjustments on Herbst Adv.</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L full-coverage bite splints with an anterior hook-and-bar mechanism</li> <li>Elite has variable positioning hooks with lingual bar</li> <li>Attached adjustment knob*</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L full-coverage bite splints</li> <li>Hardware or anterior + labial, leaving more room for patients with large tongue</li> <li>3 hook sizes</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L, full-coverage bite splints</li> <li>Option of anterior hook-and-slot mechanism or Elite variable positioning hooks with lingual bar</li> <li>Smaller profile hook, separate key</li> </ul>	<ul style="list-style-type: none"> <li>Separate U/L, full-coverage bite splints with interchangeable elastic straps for advancement</li> </ul>
<b>Adjustment Capability</b>	<ul style="list-style-type: none"> <li>Titration in 0.5mm increments</li> <li>Rods available in regular and bruxism</li> </ul>	<ul style="list-style-type: none"> <li>5-6 mm protrusive/retrusive</li> </ul>	<ul style="list-style-type: none"> <li>8.5 mm protrusive/retrusive</li> </ul>	<ul style="list-style-type: none"> <li>10 mm protrusive/retrusive</li> </ul>	<ul style="list-style-type: none"> <li>12-15 mm protrusive/retrusive</li> </ul>	<ul style="list-style-type: none"> <li>6 mm protrusive/retrusive</li> <li>Rear position adds 5 mm</li> </ul>	<ul style="list-style-type: none"> <li>14 mm protrusive/retrusive</li> </ul>
<b>Lateral Ability</b>	<ul style="list-style-type: none"> <li>Minimal</li> </ul>	<ul style="list-style-type: none"> <li>2-6 mm</li> </ul>		<ul style="list-style-type: none"> <li>7-8 mm</li> </ul>		<ul style="list-style-type: none"> <li>4-5 mm</li> </ul>	<ul style="list-style-type: none"> <li>Ample lateral movement</li> </ul>
<b>Facial Design</b>	<ul style="list-style-type: none"> <li>Available in full coverage, cap, no coverage</li> </ul>	<ul style="list-style-type: none"> <li>Buccal screw mechanisms</li> <li>Standard: short coverage with ball clasps for retention</li> <li>FLEX: Long coverage for retention</li> <li>Smooth labial</li> </ul>	<ul style="list-style-type: none"> <li>Buccal advancement mechanism</li> <li>Standard: short coverage with ball clasps for retention</li> <li>FLEX: Long coverage for retention</li> <li>Smooth labial</li> </ul>	<ul style="list-style-type: none"> <li>Smooth buccal</li> <li>Long coverage for retention</li> <li>Attached adjustment knob</li> </ul>	<ul style="list-style-type: none"> <li>Labial screw mechanism</li> <li>Long coverage for retention</li> <li>Incisal screw port</li> <li>Separate key</li> </ul>	<ul style="list-style-type: none"> <li>Smooth buccal</li> <li>Long coverage for retention</li> <li>Incisal screw port</li> <li>Separate key</li> </ul>	<ul style="list-style-type: none"> <li>Buccal button attachment and interchangeable straps</li> <li>Long coverage for retention</li> </ul>
<b>Tongue Space</b>	<ul style="list-style-type: none"> <li>No tongue encroachment</li> </ul>	<ul style="list-style-type: none"> <li>No tongue encroachment</li> <li>Contoured lingual flanges</li> </ul>	<ul style="list-style-type: none"> <li>No tongue encroachment</li> <li>Contoured lingual flanges</li> </ul>	<ul style="list-style-type: none"> <li>Hook-and-bar in anterior lingual region</li> </ul>	<ul style="list-style-type: none"> <li>More room for tongue</li> <li>Hook + bar on labial</li> </ul>	<ul style="list-style-type: none"> <li>Hook and slot in anterior lingual region</li> </ul>	<ul style="list-style-type: none"> <li>No tongue encroachment</li> </ul>
<b>Material Choices</b>	<ul style="list-style-type: none"> <li>CAD CAM polymer nylon (Organic Polyamide 12)</li> </ul>	<ul style="list-style-type: none"> <li>Hard acrylic with clasps</li> <li>FLEX</li> </ul>		<ul style="list-style-type: none"> <li>Plus = Brux-eze®</li> <li>TL = Pressure-formed Triple Laminate</li> </ul>			<ul style="list-style-type: none"> <li>Pressure-formed Biocryl</li> </ul>
<b>SELECTION</b>							
<b>Use Indicators</b>	<ul style="list-style-type: none"> <li>Small size, easy adjustment, titration and insertion/removal</li> <li>Custom designs wide range of plateaus and bands available</li> <li>Indicated for bruxers.</li> <li>Contraindications very short or multiple missing molars</li> </ul>	<ul style="list-style-type: none"> <li>No tongue interference for patients with narrow arches, lingual tori, or large tongue</li> <li>Stable posterior support</li> <li>Separate appliances make seating easier</li> <li>Patients can open and close mouths during sleep</li> <li>Patients feel less confined</li> <li>Easily titratable during sleep</li> <li>Limited lateral movement</li> <li>Clasp retained (except FLEX)</li> </ul>		<ul style="list-style-type: none"> <li>TAP 1 bar-and-hook mechanism offers the most lateral ability for heavy bruxers</li> <li>Patients feel less confined</li> <li>Separate appliances make seating easier</li> <li>Easily titratable in the mouth during sleep</li> <li>Hardware is in the anterior tongue space</li> <li>TAP 3 has smaller screw mechanism, but less protrusive or lateral ability than TAP 1</li> <li>No clasps to adjust</li> <li>dreamTAP® - more room for tongue</li> </ul>			<ul style="list-style-type: none"> <li>No tongue interference for patients with narrow arches, lingual tori, or large tongue</li> <li>Not recommended for heavy bruxers</li> </ul>

\* Attached adjustment knob can be removed after adjustments are complete.

	Panthera	SomnoDent®		TAP® Appliance			EMA®
	D-SAD™	Standard and FLEX	Fusion™ and Herbst Adv.	TAP 1	dreamTAP®	TAP 3	
<b>Seating and Adjustment</b>	<ul style="list-style-type: none"> <li>• Easy insertion.</li> <li>• Rods 21-35mm adjusted in 0.5mm increments</li> </ul>	<ul style="list-style-type: none"> <li>• May need to adjust clasps for retention</li> <li>• Adjust screws: 1 turn (in direction of arrows) = 0.10 mm protrusive. 1 mm = 10 turns</li> </ul>	<ul style="list-style-type: none"> <li>• May need to adjust clasps for retention</li> <li>• Adjust winglets (Fusion) = 0.10 mm protrusive. 1 mm = 10 turns (Herbst Adv.)</li> </ul>	<ul style="list-style-type: none"> <li>• If TAP TL: do not heat to seat</li> <li>• If TAP Plus: heat in hot water (175°F) until flexible to seat fully (fits tighter as it cools)</li> <li>• Adjust screws: full clockwise rotation = 0.25 mm</li> </ul>			<ul style="list-style-type: none"> <li>• Do not heat to seat</li> </ul>
<b>REQUIREMENTS</b>							
<b>Lab Requirements</b>	<ul style="list-style-type: none"> <li>• U/L PVS impressions or digital scan</li> <li>• Protrusive bite at maximum</li> <li>• Recommend 2mm George Gauge</li> </ul>	<ul style="list-style-type: none"> <li>• U/L accurate models</li> <li>• Protrusive bite is required: 60% of measured protrusive ability and 4-5 mm clearance between U/L anterior incisal edges</li> <li>• <b>George Gauge bite fork is recommended</b></li> <li>• <b>Pro Gauge bite fork is recommended</b></li> <li>• <b>SOMgauge bite fork is recommended</b></li> </ul>	<ul style="list-style-type: none"> <li>• U/L accurate models</li> <li>• No bite required: Hardware will not allow articulation. Mechanism placement is arbitrary and mandibular repositioning is determined by the clinician upon seating</li> </ul>	<ul style="list-style-type: none"> <li>• U/L accurate models</li> <li>• Protrusive bite is required: 60% of measured protrusive ability and 4-5 mm clearance between U/L anterior incisal edges</li> <li>• <b>George Gauge bite fork is recommended</b></li> <li>• <b>Pro Gauge bite fork is recommended</b></li> <li>• <b>SOMgauge bite fork is recommended</b></li> </ul>			<ul style="list-style-type: none"> <li>• U/L accurate models</li> <li>• No bite required</li> </ul>
<b>Design Options</b>	<ul style="list-style-type: none"> <li>• Can add elastics for mouth breathers</li> <li>• Many designs available</li> </ul>	<ul style="list-style-type: none"> <li>• Anterior discluder block</li> <li>• Elastic hooks for vertical ligation</li> <li>• Anterior airway vent</li> <li>• CPAP attachment</li> </ul>	<ul style="list-style-type: none"> <li>• Anterior discluder block</li> <li>• Anterior airway vent</li> <li>• CPAP attachment</li> </ul>	<ul style="list-style-type: none"> <li>• Add posterior block (arbitrarily placed)</li> </ul>			<ul style="list-style-type: none"> <li>• Additional bands can be ordered in 1 mm increments</li> </ul>
<b>Repair Instructions</b>	<ul style="list-style-type: none"> <li>• Minor adjustments possible.</li> <li>• For major dentition changes remake appliance.</li> </ul>	<ol style="list-style-type: none"> <li>1. When appliances require relining for better fit, acrylic or clasp repair, screws replaced, screws reset, or other alterations, please send appliances along with upper and lower models in good condition.</li> <li>2. When appliances require U/L bite changes, include a new correct bite registration along with upper and lower models in good condition.</li> </ol> <p><b>Important!</b> Appliances made of TL material cannot be repaired or relined.</p>					
<b>MATERIAL PROPERTIES</b>							
	<b>Brux-eze® (Plus)</b>	<b>Pressure-formed Triple Laminate (TL)</b>	<b>Hard Acrylic</b>	<b>FLEX</b>	<b>Biocryl</b>		
	<b>TAP®</b>	<b>TAP®</b>	<b>SomnoDent®</b>	<b>SomnoDent®</b>	<b>EMA®</b>		
	<ul style="list-style-type: none"> <li>• Standard material</li> <li>• Heat-processed acrylic</li> <li>• Customized fit</li> <li>• Comfortable</li> <li>• Flexibility in hot water ensures retention</li> <li>• Fits, even if not worn regularly</li> <li>• On-call flexibility</li> <li>• Material memory</li> <li>• Maintains fit</li> <li>• Repairable and relineable</li> </ul>	<ul style="list-style-type: none"> <li>• Consists of 3 layers of EVA material</li> <li>• Tooth layer is soft; 2 outer layers are hard</li> <li>• Does not require hot water</li> <li>• Thin, soft lining</li> <li>• Comfortable, flexible gasket retention</li> <li>• Very durable</li> <li>• Not repairable</li> <li>• Not relineable</li> <li>• TL does not allow for in-lab articulation: no occlusal blocks or pre-set adjustment</li> </ul>	<ul style="list-style-type: none"> <li>• Standard material</li> <li>• Requires ball clasps</li> <li>• Heat-processed acrylic</li> <li>• Customized fit</li> <li>• Durable</li> <li>• Maintains fit</li> <li>• Repairable</li> <li>• Relineable</li> </ul>	<ul style="list-style-type: none"> <li>• Special order</li> <li>• No clasps required</li> <li>• Durable</li> <li>• Tooth layer is soft</li> <li>• Outer layer is hard</li> <li>• Comfortable, flexible gasket retention</li> <li>• No hot water required</li> <li>• Maintains fit</li> <li>• Repairable</li> <li>• Relineable</li> </ul>	<ul style="list-style-type: none"> <li>• Does not require hot water</li> <li>• Standard material</li> <li>• Not repairable</li> <li>• Not relineable</li> </ul>		

**IMPORTANT INFORMATION CONCERNING DSG ORAL SLEEP APPLIANCES**

**Product Assurance:** Dental Services Group oral sleep appliances are FDA cleared. They have been thoroughly researched, tested, and found to be highly effective in providing and maintaining oral airway patency during sleep. **Warranty:** Dental Services Group laboratories fully guarantee the quality of our oral sleep appliances. The EMA appliance is guaranteed for a period of 30 days against fabrication errors or material defects. All other oral sleep appliances are guaranteed for 90 days against fabrication errors or material defects. **Disclaimer:** Dental Services Group laboratories cannot warrant against dissatisfaction due to diagnosis or style of appliance chosen. We're happy to assist you with any appliance adjustments and/or modifications, and to provide you with any information you may need to learn about the dental treatment of sleep disorders. DSG advises a thorough patient consultation and the use of informed consent documentation. We strongly recommend a medical evaluation and diagnosis prior to the treatment of sleep apnea with oral appliances. **Statement of Conformity:** Available upon request. Rev. 07/16