

Company		Airway Management Inc	Dream Systems Dental Sleep Lab	DynaFlex	
Appliance		 dreamTAP	 OASYS Oral / Nasal Airway System (Optional Tongue Repositioning Buttons)	 Milled Dorsal	 Milled Herbst
Website		www.tapintosleep.com	www.dreamsystemsdentallab.com	www.dynaflex.com	www.dynaflex.com
Warranty (days)		365	365	1,095	1,095
INDICATIONS	Mild to Moderate OSA	X	X	X	X
	Snoring	X	X	X	X
	Bruxism				
MATERIALS	Biocompatible Polymer		X		
	Cobalt-Chromium Alloys	X	X		
	Ethylene-Vinyl Acetate		X		
	Hard Acrylic		X	X	X
	Laminate	X	X		
	Thermal Acrylic	X	X	X	
	Other				
PDAC Verified		X	X (Hinge only)		X
How Does the Oral Appliance Work?		The dreamTAP advances and stabilizes the jaw, preventing the tissues of the throat and tongue from collapsing into the airway. It is available with an optional compliance monitor chip.	OASYS Simplicity is a simple mandibular advancement with the labial shield. The Standard OASYS with Nasal Dilators improves nasal breathing.	The forward advancement of the lower jaw of this mandibular advancement device helps to gain airway opening.	The DynaFlex Milled Herbst is a mandibular advancement device. The forward advancement of the lower jaw helps to gain airway opening.
Fitting Description		All TAP custom products allow patients to fine-tune treatment at home, as well as work with the clinician. DreamTAP has a single point of midline adjustment, which prevents uneven bilateral adjustment. Initial protrusion is set during the fitting process and is easily modified. Three different hook sizes allow for a 15 mm range of adjustment with minimal hardware. Posterior stops may be added.	Upper clear cushion seated first. Lower splint with anterior labial repositioning shield is placed next. MM scale tracks adjustments in 1 mm increments, using the OASYS Wrench for mandibular positioning.	After receiving a set of PVS or good working models, a custom fitted Dorsal is fabricated exactly to the bite registration that is provided by the dentist to the lab. The appliance is returned to the sleep practice, delivered to the patient, and adjusted by a qualified dental sleep clinician.	After receiving a set of PVS/digital/working models, a custom milled Herbst is fabricated exactly to the bite registration. The appliance is returned to the sleep practice, delivered to the patient, and adjusted by a qualified dental sleep clinician.
Adjustment Description		Adjustment may be made by the patient with the appliance in the mouth in 1/3 mm increments. An anterior dial with one point of adjustment prevents unequal torque. The clinician teaches a home titration schedule. The dreamTAP may also be adjusted in a sleep lab by the sleep tech during a study.	The anterior labial shield is on a sliding lock system. Pushing the shield advances the mandible; pulling retrudes. Adjustment 8 -15 mm. Finger adjustment on the nasal dilators and tongue buttons.	The DynaFlex Dorsal has 6 mm of mandibular advancement built into the device. The adjustment ratio is 10:1.	The DynaFlex Milled Herbst has telescoping arms that can advance the mandible up to 5 mm. The advancements are made with a small key that is provided by DynaFlex. A single- or double-collar arm can be provided based on clinician preference.
Connection Between Upper and Lower Sections		Connected by hardware during use.	Not connected.	Not connected.	Connected with stainless steel telescoping arms.
Peer-reviewed Study		Hoekema A, Stegenga B, et al. Obstructive sleep apnea therapy. <i>J Dent Res.</i> 2008;87(9):882-7.	Shrivastava D, Bixby JK, Livornese DS, et al. Efficacy of oral appliance therapy in the treatment of severe OSA in CPAP-resistant cases. <i>Sleep Vigilance.</i> 2018. https://doi.org/10.1007/s41782-018-0044-y	Not provided	Not provided

Company		Glidewell Laboratories	Great Lakes Dental Technologies	Luco Hybrid OSA Appliance Inc	OravanOSA	Oventus Medical
Appliance		 Silent Nite sl	 Telescopic Herbst Sleep Appliance in Hard Acrylic	 The Luco Hybrid OSA Appliance	 Oravan Herbst	 O ₂ Vent W
Website		www.glidewell dental.com	www.greatlakesdentaltech.com	www.lucohybridosa.com	www.oravanosa.com	www.o2vent.com
Warranty (days)		180	90 (metal); 730 (body)	1,695	365	1,095
INDICATIONS	Mild to Moderate OSA	X	X	X	X	X
	Snoring	X	X	X	X	X
	Bruxism			X		
MATERIALS	Biocompatible Polymer	X				X
	Cobalt-Chromium Alloys			X		
	Ethylene-Vinyl Acetate	X				
	Hard Acrylic		X	X	X	
	Laminate					
	Thermal Acrylic	X				
	Other				stainless steel	titanium (3-D printed airway)
PDAC Verified			X		X	
How Does the Oral Appliance Work?		Silent Nite sl works by positioning the lower jaw forward using S-shaped connectors that are attached to upper and lower trays, which increases the volumetric capacity of the airway.	By repositioning and holding the mandible in a more protrusive position, it holds the tongue forward and the airway open. (The Herbst is a registered trademark of Dentaaurum Inc.)	Uses a patented forward bite to activate the masseter inhibitory reflex to treat sleep bruxism while managing OSA and UARS symptoms. The only FDA cleared treatment of sleep apnea with concurrent sleep bruxism.	The device opens the patient's airway through advancement of the mandible using an adjustable telescopic Herbst mechanism. Like the Oravan device, Oravan Herbst has a truly open anterior design, encouraging natural protrusion of the tongue.	The slimline O ₂ Vent W uses an adjustable dual mechanism to stabilize jaw position and advance the mandible to reduce airway collapse, still enabling opening of the mouth. It allows for breathing through the device to bypass obstructions in the nose. Lips maintain a seal around the device extension.
Fitting Description		It is custom thermoformed in the laboratory from the patient's models. A bite registration taken with the Slide-Link protrusion gauge is used to determine protrusive position and align the device.	The standard hard acrylic snaps into place. When requested, retention clasps can be added.	No lingual acrylic to adjust; 2 ball clasps per sextant. Only 2 contacts of occlusion with the forward bite.	The Oravan Herbst is custom fitted to each patient by a dentist who takes impressions and bite registration. No anterior coverage means it will not interfere with anterior dental cosmetic work.	Custom fit by a dentist following his/her taking physical or digital impressions and bite registration. Dental models are scanned and the design is 3-D printed in titanium. Customized polymer inserts are added to top and bottom pieces and sent to dentist for patient delivery.
Adjustment Description		Slide-Link connectors attach to the upper and lower trays. These connectors come in 6 lengths (21–26 mm) and are interchangeable by the patient if the lower jaw needs repositioning.	Small increments using advancement shims, or up to 5 mm with a 1 mm retrusion using telescopic hardware.	Titration is by 2 orthodontic screws that are turned with a key (wire). Adjustable in 0.25 mm adjustments up to 6 mm.	Insert the key into the adjustment mechanism located on the anterior mandibular component of the device. Can be advanced in small increments up to 5 mm.	A key on each side of the device provides up to 6 mm total protrusion, achievable in increments of 0.1 mm per turn of 90°.
Connection Between Upper and Lower Sections		Connected.	Yes, for the telescopic hardware design. (Other hardware options available that are not connected.)	Not connected	Connected	O ₂ Vent W: not connected but can be by adding hooks and elastics; O ₂ Vent T is connected.
Peer-reviewed Study		Not provided	Not provided	Not provided	Sutherland K, et al; on behalf of the ORANGE Registry. Oral appliance treatment for obstructive sleep apnea: an update. <i>J Clin Sleep Med.</i> 2014;10(2):215-27.	Not provided

Company		Panthera Dental	ProSomnus Sleep Technologies		
Appliance		 Panthera D-SAD	 ProSomnus [CA] Continuous Advancement Sleep and Snore Device	 ProSomnus [IA] Iterative Advancement Sleep and Snore Device	 ProSomnus [PH] Precision Herbst Style Sleep and Snore Device
Website		www.pantherasleep.com	www.prosomnus.com	www.prosomnus.com	www.prosomnus.com
Warranty (days)		1,095	1,095	1,095	1,095 / 1,825 (Medicare patients)
INDICATIONS	Mild to Moderate OSA	X	X	X	X
	Snoring	X	X	X	X
	Bruxism				
MATERIALS	Biocompatible Polymer	X			
	Cobalt-Chromium Alloys				
	Ethylene-Vinyl Acetate				
	Hard Acrylic				
	Laminate				
	Thermal Acrylic				
	Other		Control-cured polymethylmethacrylate	Control-cured polymethylmethacrylate	Control-cured polymethylmethacrylate
PDAC Verified					X
How Does the Oral Appliance Work?		Custom-made by computer, the D-SAD holds the lower jaw in a forward position, increasing the space behind the tongue, which facilitates airflow and eliminates snoring. The jaw advancement also prevents the obstruction responsible for OSA. Due to materials, it's ideal for heavy bruxers.	ProSomnus [CA] advances the arch using a split 90° post with embedded expansion screw. Total available range of 12.0 mm, 11.0 mm for advancement and -1.0 mm retrusion from original bite position.	ProSomnus [IA] utilizes vertically mated buccal posts to advance and hold the mandible forward to open the airway.	The ProSomnus [PH] Sleep and Snore Device uses a continuous advancement protocol. The upper arch is connected by a Herbst Arm to the lower arch with an adjustment nut allowing for small incremental adjustments in a range from -1.0 mm to 6.0 mm.
Fitting Description		Compatible with intraoral scanning technology or regular dental impressions. Each case is designed on a proprietary software so retention can be adjusted individually. The D-SAD could be designed for horizontal protrusion as well as vertical.	The dentist typically inserts and confirms the fit and comfort of each arch independently and then together. Patients are instructed to place the device arches in as a single unit. Experience fast insertion due to the accuracy of the digital design and precision manufactured process.	The dentist typically inserts and confirms the fit and comfort of each arch independently and then together. Patients are instructed to place the device arches in as a single unit. Experience fast insertion due to the accuracy of the digital design and precision manufactured process.	The dentist typically inserts and confirms the fit and comfort of each arch independently and then together. Patients are instructed to place the device arches in as a single unit. Experience fast insertion due to the accuracy of the digital design and precision manufactured process.
Adjustment Description		A patented locking mechanism means rods can be replaced for titration. The rods will not disengage during sleep and will not elongate. Rods come in 0.5 mm increments and their lengths vary from 18 mm to 36 mm.	ProSomnus [CA] utilizes a continuous advancement protocol. The upper arch has a split 90° post with an adjustable expansion screw allowing for incremental adjustments from -1 mm to 5 mm. A lower advancement arch (L5) can be provided, which adds another 5 mm (or total advancement up to 11 mm).	Remove an arch and insert the next arch in the series of advancement arches. Combinations of arches add up to a new titration increment. No screws, mechanisms, or elastics required. Unlimited Advancement Arches can be ordered one at a time until satisfied.	The ProSomnus [PH] Sleep and Snore Device uses a continuous advancement protocol. The upper arch is connected by a Herbst Arm to the lower arch with an adjustment nut allowing for small incremental adjustments in a range from -1.0 mm to 6.0 mm.
Connection Between Upper and Lower Sections		Not connected	Not connected	Not connected	Connected
Peer-reviewed Study		Not provided	Seltzer N, et al. Case report: Using a precision milled, continuous advancement, oral appliance with symmetric titration to treat all severity levels of obstructive sleep apnea. <i>DSP</i> . Spring 2019:22-4.	Hu J, et al. Case report: The Micro ₂ Sleep Device. <i>DSP</i> . Summer 2015:24-7. Remmers JE, et al. Clinical study: a feedback-controlled mandibular positioner identifies individuals with sleep apnea who will respond to oral appliance therapy. <i>J Clin Sleep Med</i> . 2017;13(7). Vranjes N, et al. Assessment of potential tooth movement and bite changes with a hard-acrylic sleep appliance: A 2-year clinical study. <i>J Dent Sleep Med</i> . 2019;6(2).	Not provided

Company		Quiesco Health	SML-Space Maintainers Laboratories	True Function Laboratory	Whole You
Appliance					
		The Silencer with Halstrom Hinge	Clear Sleep Appliance	TrueDorsal	Respire Blue EF+
Website		www.the-silencer.com	www.smlglobal.com	www.truefunction.com	www.wholeyou.com
Warranty (days)		1,825 (hinge); body warranty varies by dental lab	365-730 (depending on material)	730	365
INDICATIONS	Mild to Moderate OSA	X	X	X	X
	Snoring	X	X	X	X
	Bruxism				
MATERIALS	Biocompatible Polymer		X		
	Cobalt-Chromium Alloys				X
	Ethylene-Vinyl Acetate			X	
	Hard Acrylic	X	X	X	X
	Laminate		X	X	
	Thermal Acrylic	X			
	Other	Ivoclar acrylic-elastomer		Milled PMMA	
PDAC Verified					
How Does the Oral Appliance Work?		Airway patency achieved through incremental advancement combined with vertical adjustability and lateral movement.	Two BPA-free trays allow for lateral movement and maximum room for the tongue while advancing the mandible forward.	The upper splint has bilateral adjustable components made with orthodontic expansion screws that engage with the lower splint to advance the mandible.	The Respire Blue EF+ maximizes tongue space by using a chrome material on lingual and anterior areas. Additional support with 4-wing design.
Fitting Description		Standard.	The appliance is seated by placing the upper and lower portions together. First seat the upper portion, then guide the lower portion and seat with finger pressure.	Place the upper tray in the patient's mouth and gently press it up into place with your thumbs. Place the lower tray of the appliance into the patient's mouth and press down both sides of the tray using index fingers to ensure the fit on the teeth. Once both trays are securely positioned, engage the fins by bringing the lower jaw forward. Removal: Remove the lower tray first by using your thumbs to gently pull the tray up and out of the mouth. Using thumbs and index fingers, gently pull upper tray down and out.	Place the upper piece in first, and then the lower.
Adjustment Description		Advancement through a range of 10 mm, adjustable in 1 mm increments. Vertically adjustable through changing connecting stylus pin.	The Clear Sleep provides up to 7 mm of advancement and uses a series of connector straps that can be interchanged to move the mandible forward in 1 mm increments.	The dentist can advance the TrueDorsal using the orthodontic expansion key enclosed with the device. A patient can also advance the device, if needed, under the care of the dentist. Full 360 degree turn = 0.8 mm. ¼ turn (every time a new hole appears) = 0.2 mm. Maximum advancement is = 6 mm.	The adjustment screw allows advancement up to 6 mm.
Connection Between Upper and Lower Sections		Connected	Connected	Not connected	Not connected
Peer-reviewed Study		Raphaelson MA, et al. Oral appliance therapy for obstructive sleep apnea syndrome; progressive mandibular advancement during polysomnography. <i>Cranio</i> . 1998;16(1):44-50.	Not provided	Not provided	Not provided