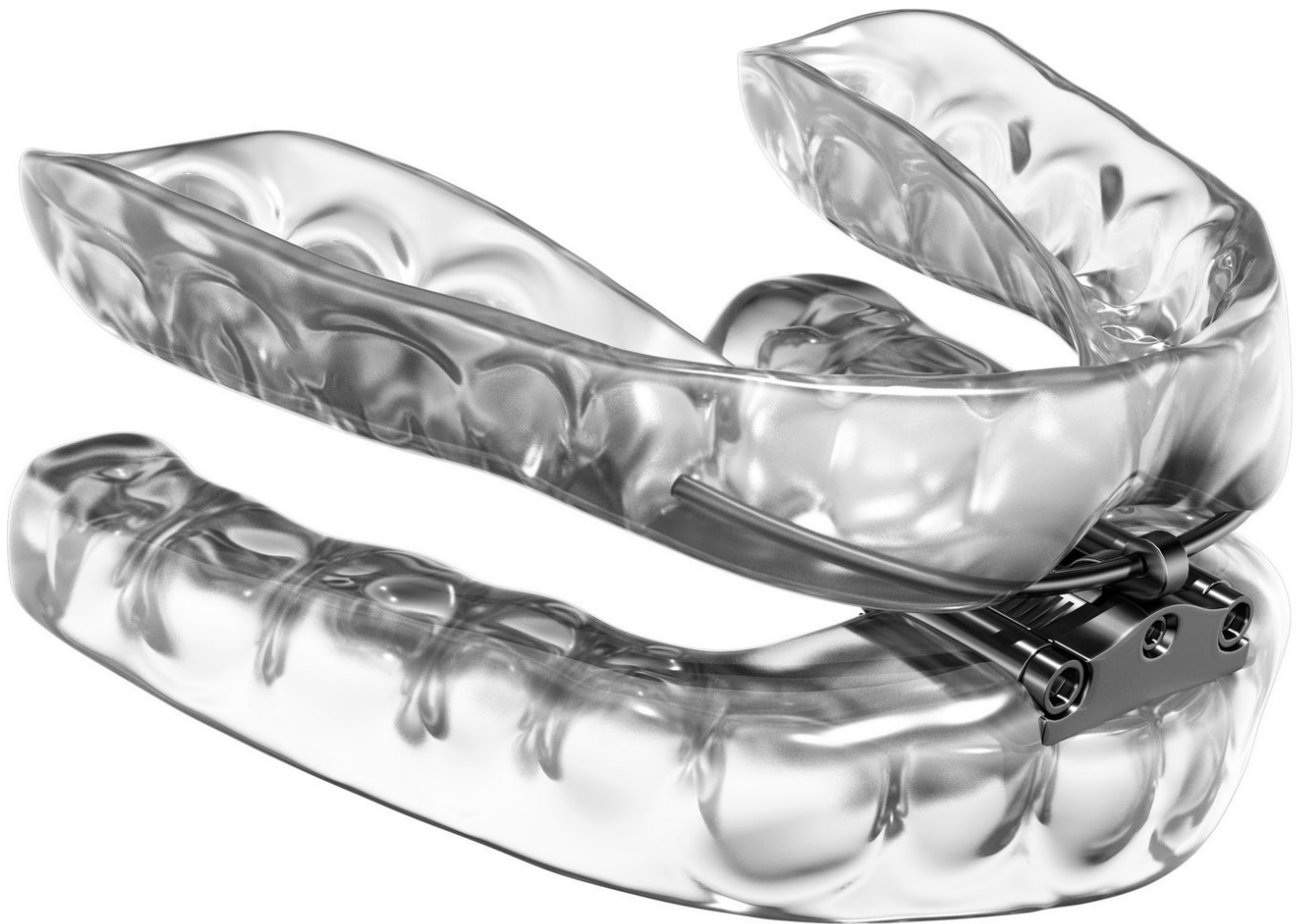


AccuTherm Tray System

All about the latest innovation from AMI

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INTRODUCTION

This awesome tray system can be used with any TAP hardware set

- TAP 1
- TAP 3
- dreamTAP

Main Benefits:

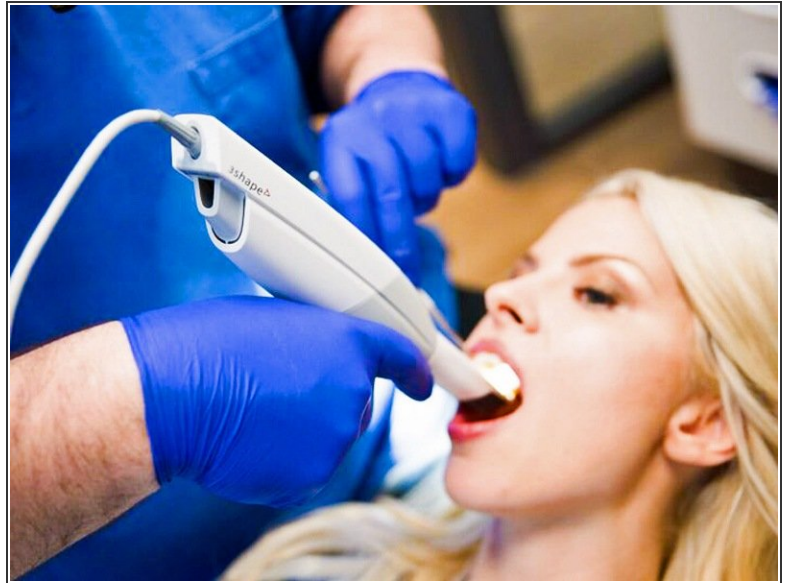
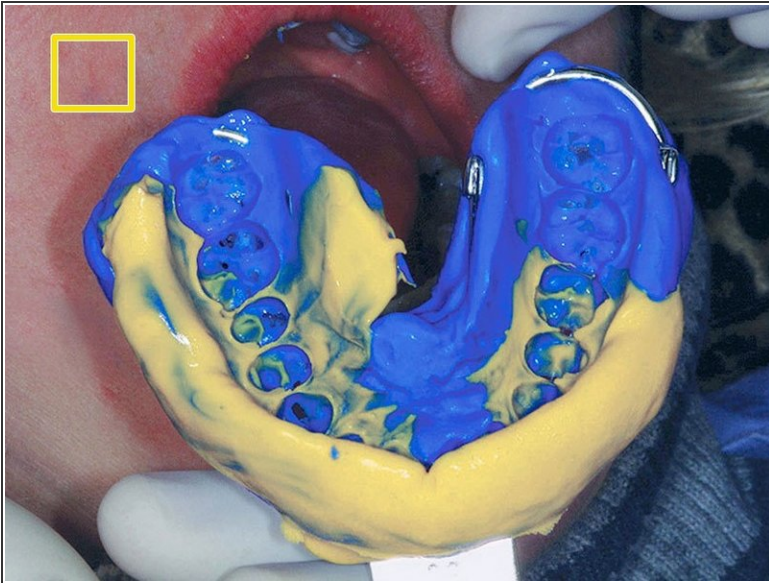
- Fits 1st time, every time
- Small in mouth, only 3.1mm thick
- No handpiece needed to seat, just hot water
- Excellent retention
- Remoldable for new crowns
- No remakes
- Can be build from Analog or digital impressions



TOOLS:

- [Hot water](#) (1)
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Step 1 — Dentistry's biggest issue - Fit



- For 300 years, since the first dentures were built for George Washington, clinicians have struggled with obtaining impressions and models to accurately build fixed and removable prosthetics that fit the patient.
- From beeswax to alginate to PVS, analog impressions have improved dramatically.
 - Full arch impressions for sleep devices are the most difficult to obtain. You must capture the distal surface of the most posterior lower teeth. With a gagging patient and a ton of impression material
- New digital impression devices are awesome, but again, the full arch including imaging the lower, most posterior distal surface is hard!
 - Because the full arch requires a lot of "Stitching" to get the full picture, the algorithm in the software sometimes must interpolate surfaces. This leads to inaccurate impressions for the DSM Device.
- One more issue to mess things up: Between the impression and delivery of the appliance - teeth often move
- **Bottom Line:** Even today with our highly technical materials and tools, we still have to deal with poor fit due to impressions and models.

Step 2 — Evolution and Build Specs of AMI Tray systems



- AMI has offered 2 tray systems for many years. The TL and ThermAcryl lined trays. AccuTherm is the evolutionary next step.
- **ThermAcryl Lined trays >4 mm thick**
 - Build Specs: We start with a temporary spacer of 1.0 mm EVA, then add a 1.0 mm PET-G Polycarbonate shell. Once this is formed on the model, we remove the 1.0 mm EVA and hand load the ThermAcryl. Then it is formed over the model again. Finally, we add the hardware and mold the top layer using a 1.5 mm PET-G polycarbonate disc. Total >4.0 mm
- **TL Trays - 3.8 mm Thick**
 - Build Specs: We start with a 1.8 mm Durasoft disc. This is a duo-laminate with 1.0 mm PET-G polycarbonate shell and 0.8 mm Urethane liner. Finally, we add the hardware and mold the top layer using a 2.0 mm PET-G polycarbonate disc. Total 3.8 mm
- **AccuTherm Trays - 3.1 mm thick**
 - Build Specs: We start with a 1.6 mm duo-laminate disc of 1.0 mm PET-G with 0.6 mm of ThermAcryl. This disc is manufactured in the plastics factory. Finally, we add the hardware and mold the top layer using a 1.5 mm PET-G polycarbonate disc. Total 3.1 mm

Step 3 — Seating an AccuTherm Tray

Fitting the AccuTherm™ Trays



- **Before Fitting:** Before fitting the custom TAP appliance with AccuTherm trays, wash and rinse thoroughly.
- **Step 1:** Place the upper tray over the upper teeth. If the tray does not fit comfortably or with proper retention, proceed with adjusting the trays.
- **Step 2:** Place the tray in hot water until the AccuTherm tray turns mostly clear. You can submerge the whole tray or just the portion that needed to be adjusted.
 - ⚠ **DO NOT** leave the tray unattended. The tray should be removed **AS SOON** as it turns clear, which can happen very quickly. Leaving the tray in hot water can cause it to warp.
- **Step 3:** Place the softened tray over the teeth
- **Step 4:** Push the appliance over the teeth with even pressure. Do not rock the appliance over the teeth.
- **Step 5:** Remove the tray from the patients mouth and place into or run under cool water to speed the cooling process.
- **Step 6:** Repeat steps 1-5 with the lower tray.

Step 4 — Clinical Benefits of AccuTherm



- Here's what you **DON'T** need to worry about:
 - Buying expensive new equipment/materials. Or learning new technical procedures or software. Use what you already have with your tried and true protocols for impressions.
 - Wasting chairtime and the embarrassment of grinding out an appliance in front of your patient.
 - Sending remakes to the lab for poor fit. Making another impression appointment for another try for a good fit.
- Here's what you can look forward to:
 - **Every case will fit, every time.** Excellent retention - Snap fir PET-G shell with custom fit ThermAcryl liner "sticks" the seating. A long lasting device based on the successful trays from AMI (double thick PET-G)
 - New Crowns - no problem. Heat and seat will allow the ThermAcryl to form to the new restorations.
 - A more productive DSM practice. Allow you to spend more face time with your patients. A more confident staff - knowing how every seating is going to be easy and great. Happy patients - getting the best fitting, most comfortable device on the market.

Step 5 — Trays too tight



- **Too Tight**

- Heat and Seat. Let the material flow and create a new equilibrium
 - Remove and reseal the tray several times during cooling. This will prevent a "Too Tight" fit.
- ① Remember: ThermAcryl has a slight 2% shrink factor.

Step 6 — Trays too loose - Step 1



- The first step to increase retention is pretty simple.
- Take the device out of patients mouth
- Reheat under hot water till clear and soft
- Reseat in patient mouth
- Once it starts to cool and get some retention, immediately take out and put in cool water to accelerate the process
- ⓘ The ThermArcyl material has a 2% shrink factor
- Reseat. It should be plenty tight.
- If not, go to next step to add ThermAcryl beads.

Step 7 — Trays too loose - Step 2



- This is a protocol developed by Dr. John Viviano. Clinical Director and founder of [Sleep Disorders Dentistry](#)
- I was delivering an AccuTherm dreamTAP and found inadequate retention on the lower component. I was dealing with a very difficult retention situation.
- I placed some white ThermAcryl beads in the appliance, heated it in hot water, placed it in on the teeth to set, and let it cool down completely while off the teeth. The retention was Fantastic! The beads bonded to the ThermAcryl liner and all was well.
- So, what I learned today is that with the AccuTherm Chassis, you can get the retention you need in most cases by simply heating and resetting the appliance chair-side.
- BUT, for those challenging cases where the retention remains inadequate, simply add some ThermAcryl beads and go through the same process you would normally to enhance retention. No remake necessary, no new impression necessary, no addition appointment necessary etc. This is GREAT!