

## Monotrac Full Arch; The Monotrac V2 Full Arch

ARTICULATION

### Model Performance



The Full Arch setup will feature a full mouth maxillary bridge that will require 3 Plug-in Stops with Cast-in-place Stop Heads. The opposing arch Pic-up Cups also demonstrated.

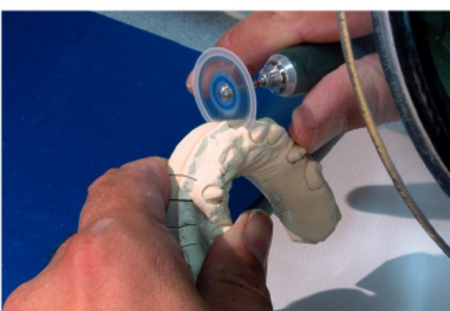
A full arch maxillary prep side impression, the opposing impression and bite registrations are presented. 1. The die side impression is trimmed flat and parallel to the occlusal plane to within approx 4mm of the preparation margins. 2. A map pin and Sharpie marker are used to indicate ideal alignment of the Monotrac base over the impression when the pour up is made, inverted and aligned over the impression. OPTIONAL: it is recommended to spray a light mist of Monotrac Stoner silicone onto the base prior to the pour if the model will be ejected from the base after more than 6 hours of set time. Spraying is also helpful if you are just beginning to experience the Monotrac.



3. After sufficient set time, the impression is removed and the Tear-Away base wall is removed. Burnish and scrape the joint line smooth between the stone and the base with a lab knife. 4. To eject the model from the base, grasp the model and tap the palatal area forward and back in a circular motion to get the model to lift evenly from the base and not to bind. Binding will cause the model to break or chip.

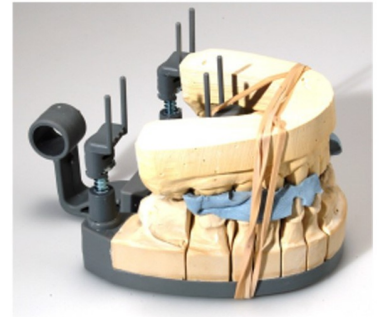


5. Section the model. One of the great advantages of Monotrac is the capability to section the model wherever you want with dies as thin as you want and still maintain die stability. For instance, Pindex models produce the thinner lower anterior dies with very little lateral stability where Monotrac dies are unusually very stable and in fact can be solid model stable by incorporating snap breaks —another subject. IMPORTANT! The key in stability and a perfect seat, is DUST AND DEBRIS CONTROL when the model is sectioned. The fine dust that collects in the Monotrac cone holes when sectioned with a motorized disk must be completely removed prior to seating the die back onto its base. The model must be placed into a food dehydrator (Wal-Mart) for 20 minutes to eliminate moisture, then cut while still warm and immediately air blasted to eliminate the fine dust that prevents a perfect seat back to the base. Models can be sectioned by hand saw, hand piece disk, or as shown here, the Monotrac Processing station and die cutter. 6. The dies are seated back onto its base. This model has had an optional gingival tissue mask added. Shown in the right hand figure, to complete the setup from top left, are the Flex Arm Hinge, bite registrations, the completed die model, the trimmed opposing model sitting inside the silicone Pic-Up Cup, at the bottom are Cast-In-Place Stop Heads with Plug-in Stop Plugs and adjustment screws.



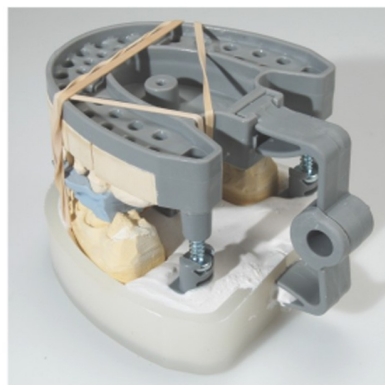
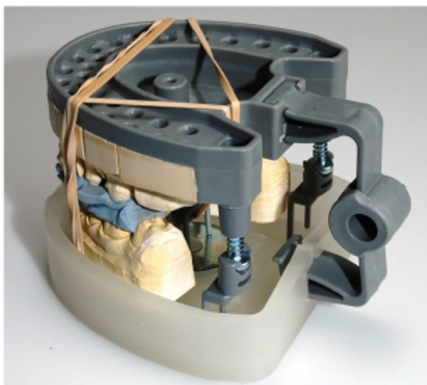
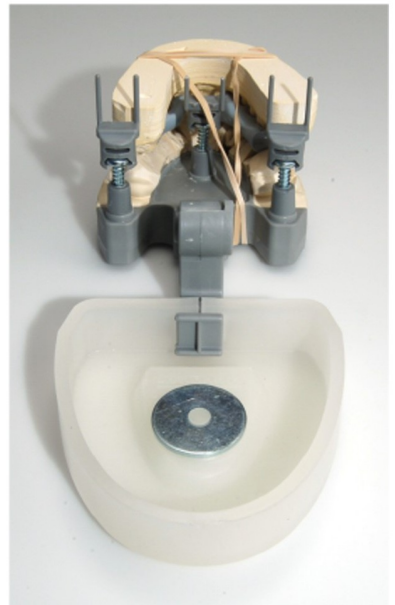


7. Because there are no natural vertical stops, this particular case will require full tripod vertical stabilization to hold solid centric location. A combination of plug-in vertical stop and Cast-In Place Stop Heads will be used at all three stop pocket locations, at both right and left distal and the palatal location to support solid vertical centric. Plug-In Stops can be conveniently placed at anytime at any pocket location required. 8. The Opposing model is positioned with the bite registrations and strapped down firmly into MIP ( maximum intercuspal position) with rubber bands or can be sticky waxed into position. All Stops, the hinge arm, and opposing model are now ready for the "Pic-Up" pour.

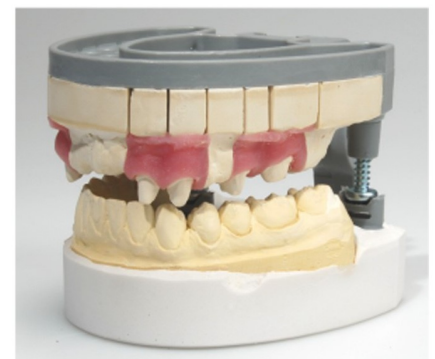


9. Photo right; The Flex Arm Hinge for the opposing side is inserted through the opening of the V2 silicone Pic-Up Cup. Also shown is the OPTIONAL Split Cast Plate (see Split Cast Plate) which can be retained into the cast for magnetic attachment to semi or fully adjustable articulators.

Below left; The model is closed into the cup to dry fit check for clearance. Below Right: The Pic-Up Cup is poured with dental plaster WITHOUT THE HINGE HALVES ENGAGED, the hinge is re engaged and closed over to submerge and capture the opposing model, the Cast-In-Place Stop Heads, and the Flex Arm Hinge.



After the plaster has set up, remove the cup, rubber bands and break away the retainer tabs (left photo) from the Stop Heads to allow the articulator to open up.



Monotrac Plug-In Stops provide solid vertical centric stability while allowing lateral and protrusive equilibration. The Stop Head also have lateral ramps which simulate average value cuspid rise in lateral movement. If need be the quick disconnecting hinge and Plug-In Stops are easily removed to allow convenient transfer to any other articulator using the magnetic split cast plate (see Split Cast). Monotrac is the only plastic disposable articulator with the capability to provide solid vertical stability for any and all cases eliminating the need for metal articulators.

Fast—Accurate—Simple

