

Trilor

A Superior High Performance Polymer

Not every patient has the resources to pay for a premium full arch fixed solution like Zirconia, Titanium Wrapped Acrylic, or High-Performance Polymer with individual crowns. This article will detail an economical, fast, and simple full arch fixed solution featuring the new Preat Trilor Arch forms along with the fabrication of a digital denture.

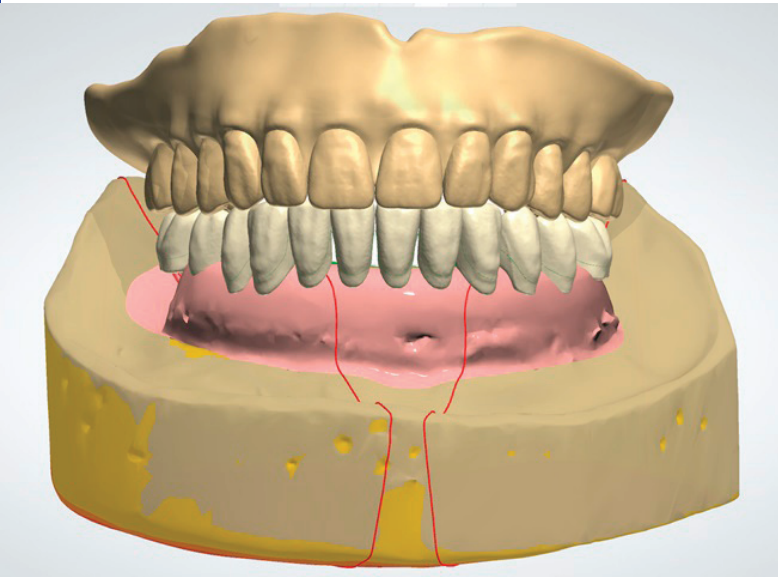


Figure 1

Above: Digital design by Doug Pope, Kulzer



Figure 2

Above



Figure 3

Right

The initial impressions, casts, and bite were scanned and equilibrated in the design software (**Figure 1**). On the analog cast, indicating holes were marked in the baseplate wax to show the position of the temporary cylinders. The wax jig was transferred over to the Trilor Arch, and small holes were drilled in the Arch with a round carbide. There are three thicknesses of Trilor Arch forms—3.5mm, 5.5mm, and 7.5mm—(**Figure 2**) and I chose the 7.5mm for maximum strength. The pilot holes in the Arch were opened up to passively receive the Temp Cylinders.

Next, I removed the Arch form and with my lathe, at the bench, modified the Arch in the superstructure design I wanted for this patient. I sandblasted the cylinders, applied metal primer, and luted the cylinders to the Arch with acrylic. This entire process took under 30 minutes from start to finish (**Figure 3**).

I scanned my Trilor suprastructure and modified the intaglio surface of my denture to receive the



Figure 4

framework. I printed my denture base and denture teeth (**Figure 4**). One of the benefits of a Trilor Arch, which is a fiber reinforced resin, is the improved bond strength of the framework to acrylic as compared to traditional gold or titanium. The Trilor Arch is also lighter and has increased flexural and compressive strength than other High-Performance Polymers, yet still flexes and

bends under stress, transferring less energy to the implants, making it an ideal support material for implant restorations.

I tried the denture base on to the Trilor framework and seated the teeth into the denture base to assure an accurate and passive fit (**Figure 5**). I then used the Kulzer light cure denture base acrylic to lute the



Figure 5

teeth to the denture base, and the Trilor framework to the prosthesis (**Figure 6**).

I was impressed with the ease of use, bonding, and light weight of the final prosthesis. This new Arch allows me to make more money on my economy cases than I do on my premium full arch solutions!



Figure 6



About the Author:

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