

Project Submission: FirstPlug® Screw Channel Barrier

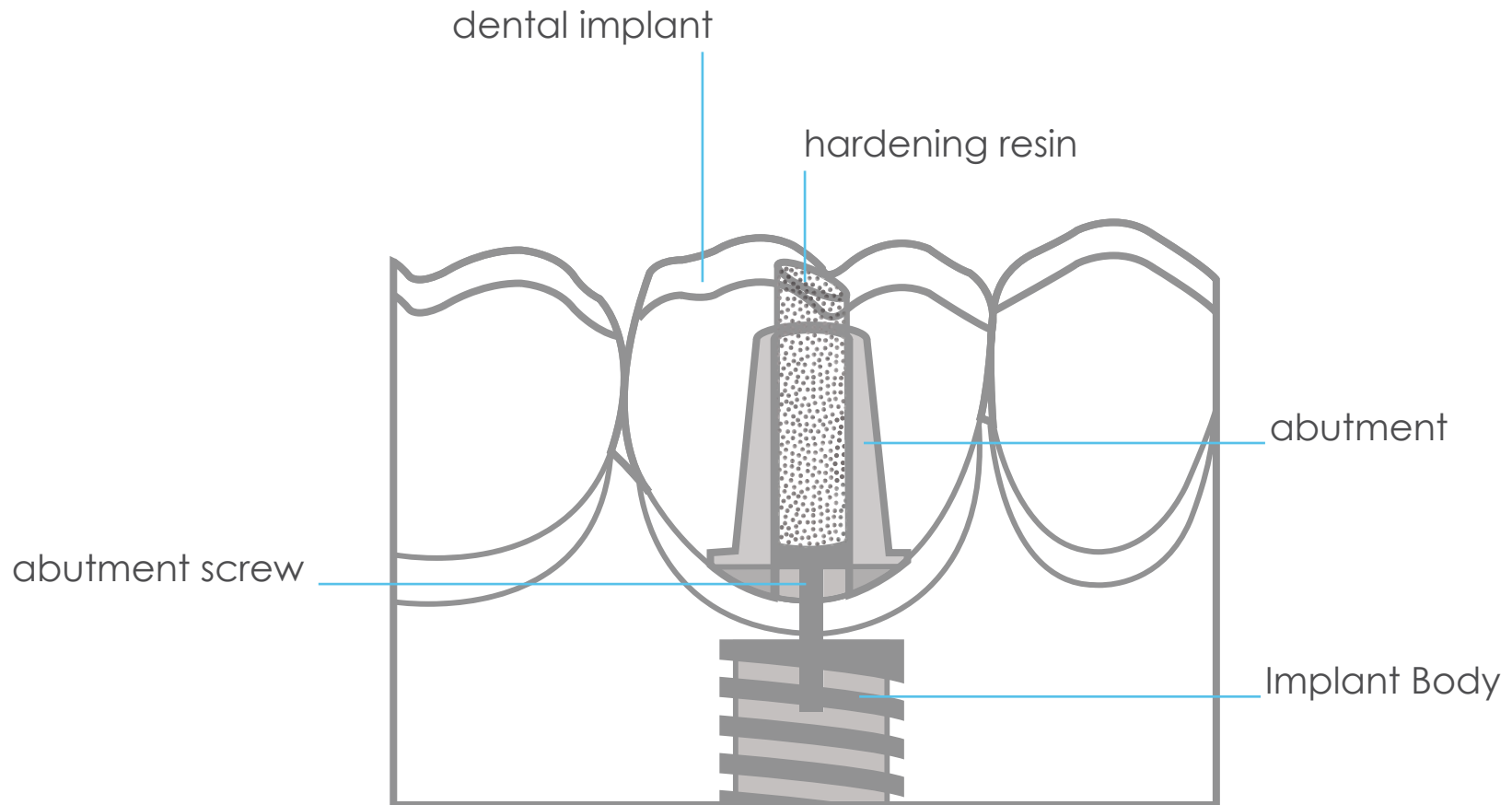
Agency: Andrew Bowen Designs

Client: 35Newtons



Problem

With dental implant restorations there's long been an issue in later removing the hardening resin and gaining access to the abutment screw for cleaning, replacement, or address infections.



Material Solution

FirstPlug® is a patented medical grade PTFE material specifically engineered to be placed into the screw channel of implant restorations. FirstPlug® is biocompatible, impervious to bacteria growth, expunges moisture, packable, and made in the USA.



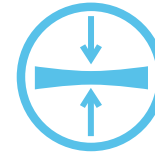
Screw Guard



Biocompatible



Antimicrobial



Packable

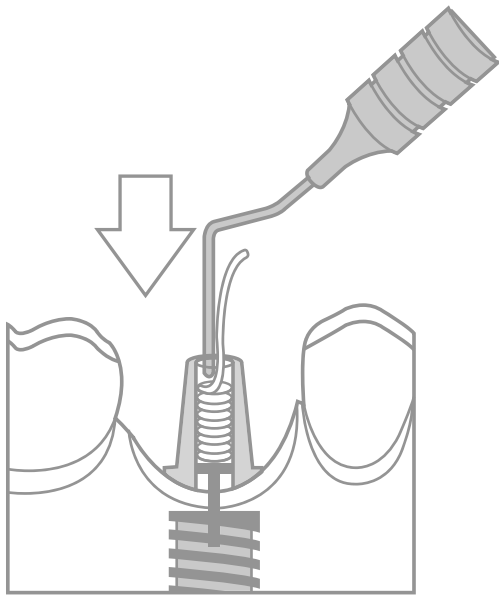


Hydrophobic

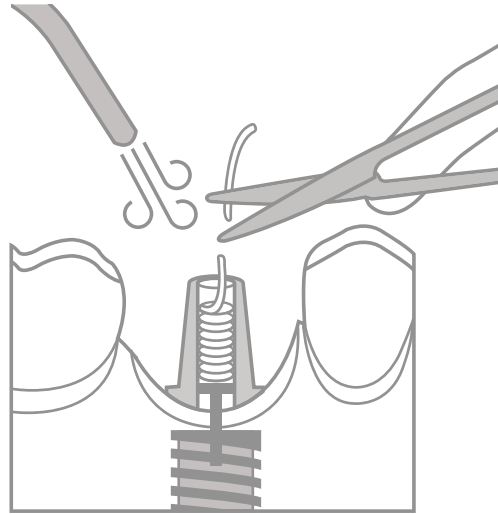


How it Works

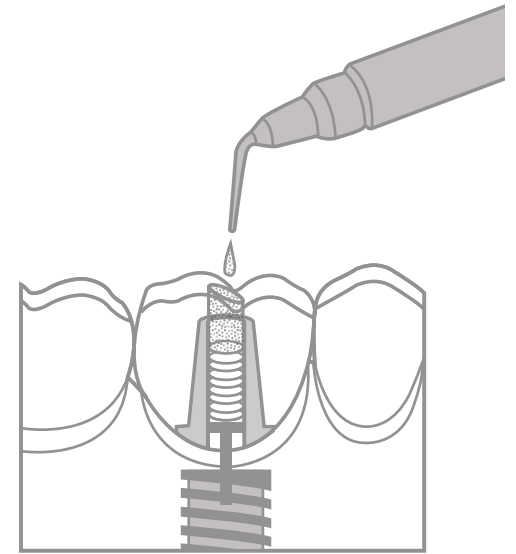
After the implant body is seated, secure, and dried with an air syringe FirstPlug® is packed into the channel creating a barrier over the abutment screw. Any excess material is then trimmed and the cavity dried. Completing the process filler is then applied over FirstPlug®



Pack channel



Trim & dry

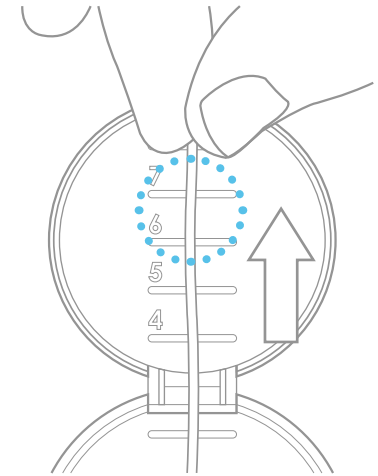
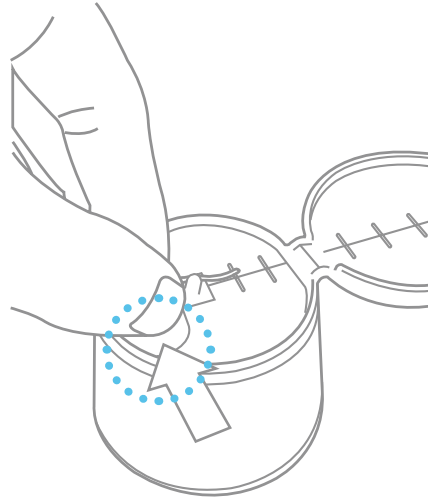
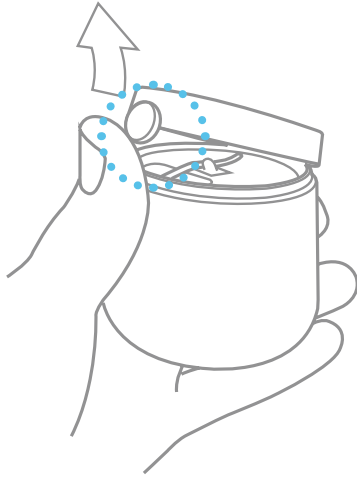


Filler & finish

Dispenser Design



Design Solutions



One hand opening

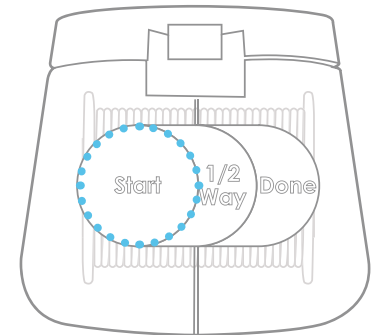
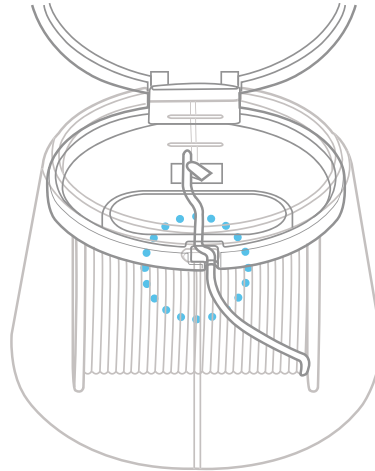
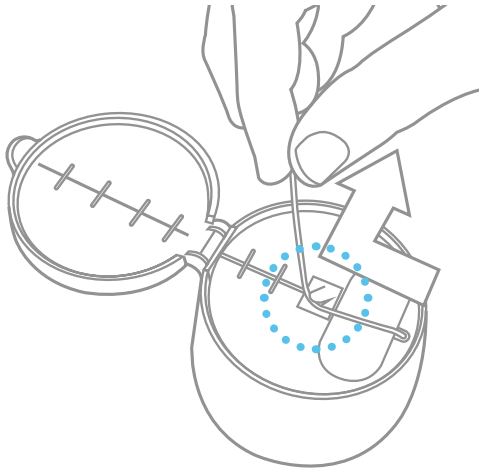


Finger recess to grab

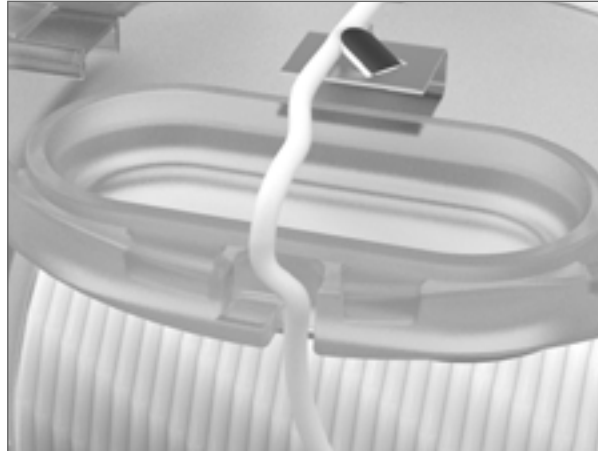


Cap measuring strip

Design Solutions



Quick cutting blade

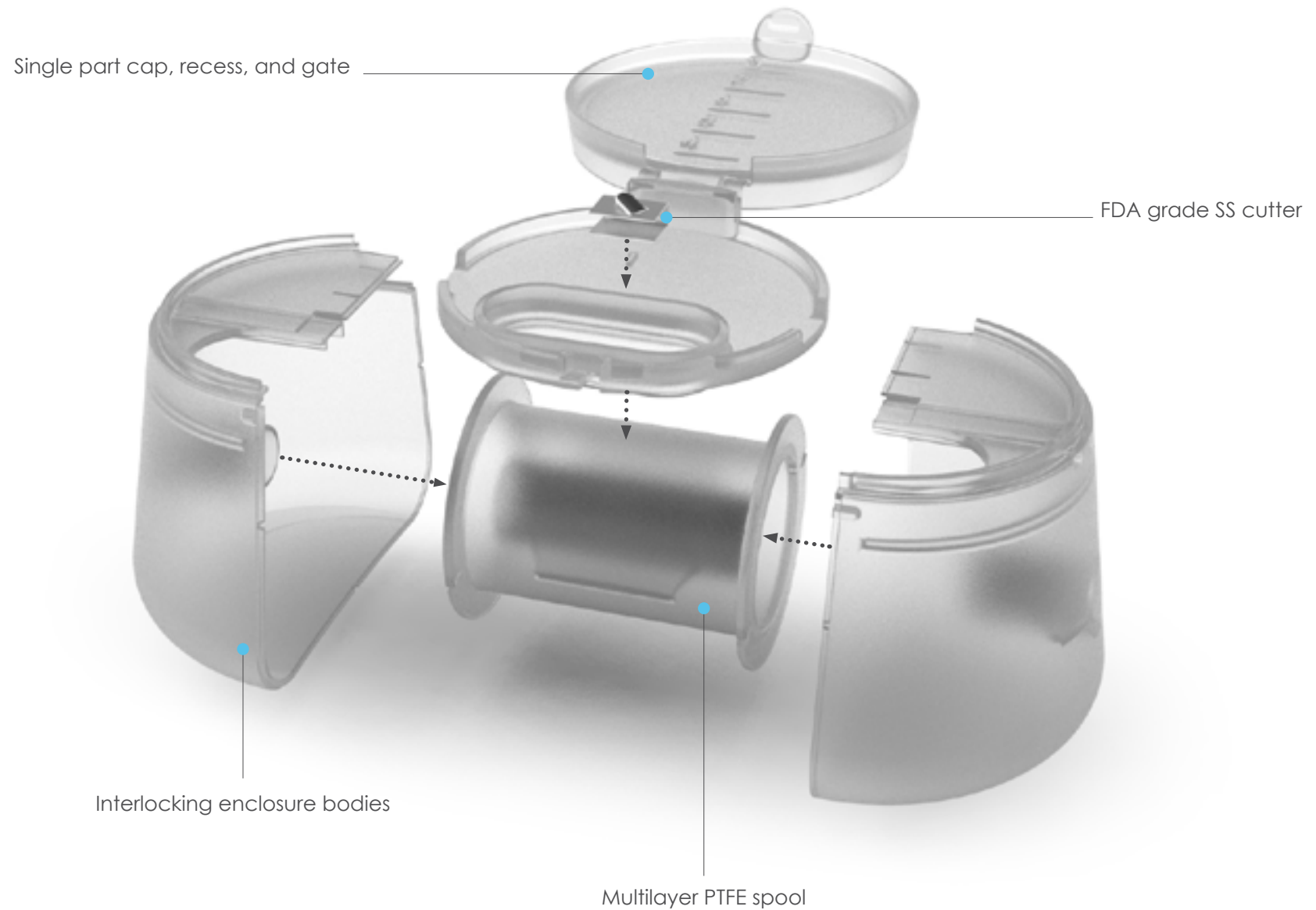


Fallback prevention gate



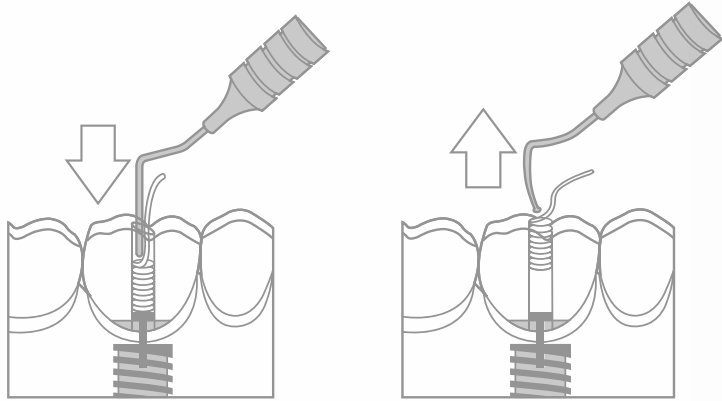
Supply indicator label

Design Solutions





Instrument Design



Plugger™

Excavator™



IFU & Packaging Design



Manufacturing



Custom designed spool winder



ISO 13485 facilities, FDA protocols,
Class I Quality Control



Cleanroom packaging assembly



www.35Newtons.com



Thank You