China Array Plastics LLC

Injection Molders of High Performance Thermoplastics

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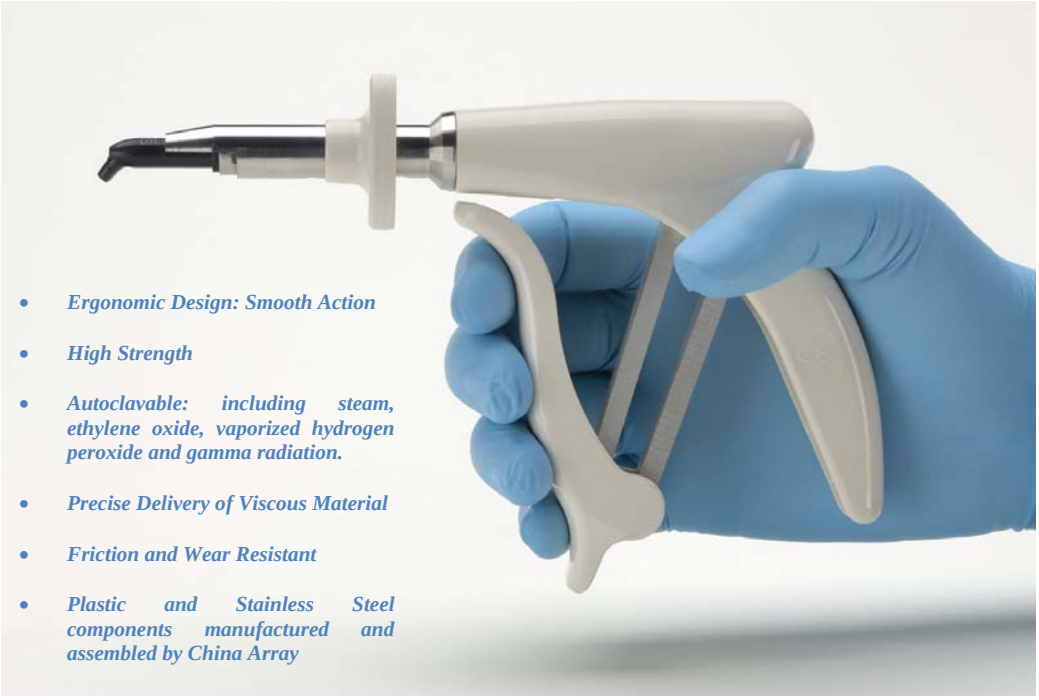
Application: *Direct delivery of dental composite to teeth in a clinical setting.*
Used for filling cavities and gaps, and for reshaping and creating partial crowns

Dental Composite Dispenser

High Performance Thermoplastic and Medical Grade Stainless Steel



- *Ergonomic Design: Smooth Action*
- *High Strength*
- *Autoclavable: including steam, ethylene oxide, vaporized hydrogen peroxide and gamma radiation.*
- *Precise Delivery of Viscous Material*
- *Friction and Wear Resistant*
- *Plastic and Stainless Steel components manufactured and assembled by China Array*

Dental Composites:

Dental composites, used to fill cavities and gaps between teeth, are delivered to the tooth in thin layers and then cured to hardness using blue wavelength light. They must adhere well to the tooth, cure to the desired hardness, and be pleasing aesthetically. Modern dental composite materials are a complex blend of glass or ceramic particles dispersed in a photo-polymerizable synthetic organic resin matrix.

New systems have been developed to properly blend composites and keep them in the correct suspension and at the right temperature until they can be delivered directly to the tooth. The composite dental gun is critical to this system. Composites are premixed and packed in compules, small individual cartridges, and kept at a constant temperature to maintain correct dispersion of the component materials.

Composite Delivery:

When the tooth is prepared, the compule is secured in the gun's tip, as shown above. The gun's smooth trigger action delivers the viscous composite in a thin layer (2 to 3 mm thick) while maintaining consistency for optimum fill, adherence and curing. A number of layers may be necessary with each layer being cured before application of the next one. The gun's ergonomic design provides the strength and leverage necessary to easily and precisely apply each layer.

Long Life; Autoclavable

Made from high performance thermoplastics and medical grade stainless steel the gun is friction and wear resistant ensuring a long life and top performance. It can be autoclaved using any of the common methods: steam, ethylene oxide, vaporized hydrogen peroxide and gamma radiation.

All plastic and stainless steel components are manufactured, inspected, assembled and packaged at China Array's Wuhan factory.