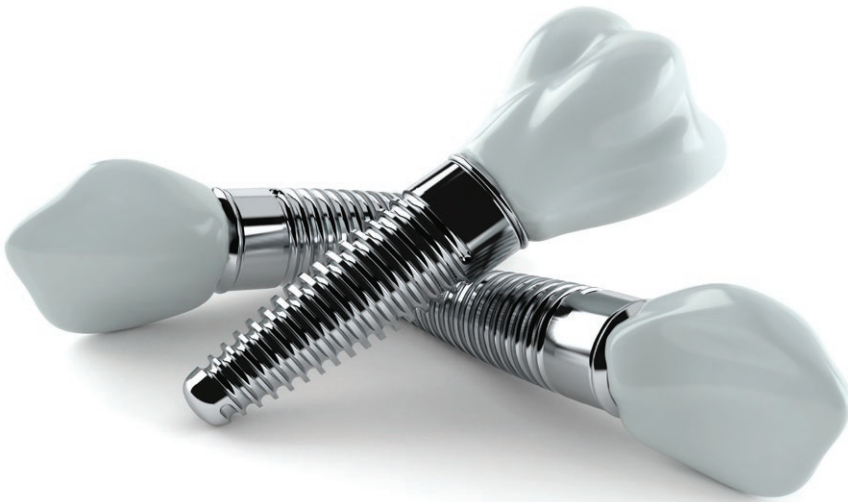


Cold Plasma Treatment Helps Implant Dentistry Create Beautiful Smiles

A partnership with TriStar gives you a competitive edge.



Dental implants are generally thought of as a recent innovation but can actually be traced back 4000 years to ancient China. Remains have been found with carved bamboo pegs tapped directly into the jaw to replace lost teeth. Today's technology allows for implants that replace a full tooth with one that looks and functions like the real deal.

Unlike a crown, which requires some portion of the tooth still in the jawbone, an implant is used when there is no useful tooth remaining. [The implant](#) is made of titanium and other materials that fuse with the jawbone and imitate the root of a tooth.

With implants the key to a successful treatment is the stability of the post and [TriStar's Enhanced Materials Division \(EMD\)](#) has helped a specialty implant clinic by preparing their posts for bonding in the jawbone. It is imperative that the metal be super-cleaned or maximum bond-ability.

A Super-Clean Post is Critical for a Successful Implant Outcome

TriStar uses cold vacuum plasma to accomplish this goal unlike other techniques where corona or air plasma are used. In those cases, the treatment requires that the implant be installed immediately.

With TriStar's technology the metal can be treated and held in storage for several weeks without degradation. This ensures the maximum bond strength to keep the tooth stable for years to come.

Cold Plasma Technology the Key to Maximum Bond Strength and Stability

Plasma can be used to make any surface, including metals, plastics and elastomers, [hydrophobic or hydrophilic](#) as the application requires. In the case of the metal implant, plasma also offers the additional advantage of atomically cleaning the metal for the highest purity possible before installing it in the patient.

For more information on how plasma services can enhance your products [contact TriStar's EMD group!](#)

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



Ultracomp[®]

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



TriSteel[™]

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



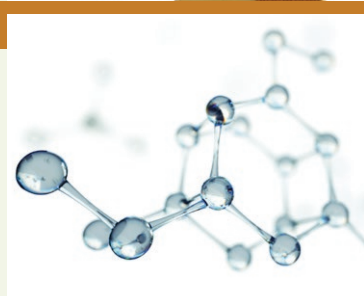
Rulon[®]

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



Enhanced Materials Division

- Plasma Surface Treatment
- Asymmetric & Symmetric Filtration Membranes
- Specialized Primers & Coatings
- Material ID & Selection



TriStar



Engineered Plastic Solutions[™]

tstar.com

1.800.874.7827

©TriStar Plastics Corp. All rights reserved. Ultracomp is a registered trademark and TriSteel is a trademark of TriStar Plastics Corp. Rulon is a registered trademark of Saint-Gobain Performance Plastics Corporation.