

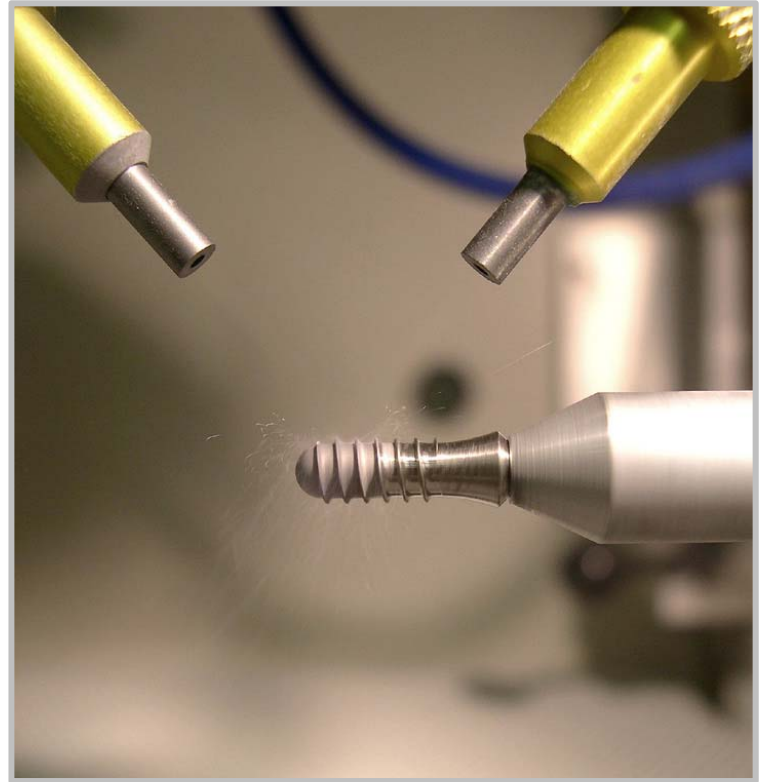
Micro-Abrasive Blasting Solutions for Dental Implants

Effective Surface Treatment

A critical issue for dental implants is the application of a surface on the abutment that can quickly integrate into the jaw bone, creating a stable platform for the implant. Several characteristics of the surface impact the rate of integration. MicroBlasting controls two of these characteristics: Ra, the size of the peaks and valleys; and the developed surface, or the amount of surface area created through the texturing process.

Micro-abrasive blasting technology, derived from sandblasting, involves mixing fine abrasive with dry air that is streamed through a small nozzle to target small areas accurately. It is used to texture the surface finish on the threaded portion of the implant.

Maintaining a smooth surface on the apex of the implant helps prevent bacteria growth where the implant sits at the gum line. Any method used to roughen the surface of the threads must not affect this area.



Micro-abrasive blasting targets a small section with a high degree of precision. The ease with which the threads can quickly be roughened without damaging the finish of the apex makes micro-abrasive blasting the ideal choice for surface treatment of dental implants.

Comco offers manual and automated systems for precision processing of implants.



*Before
MicroBlasting*



*After
MicroBlasting*



Precision MicroBlasting for Demanding Production Environments

The Value of Simoom® Technology

With Simoom Technology microblasting is able to maintain all the required variables for positive integration, including:

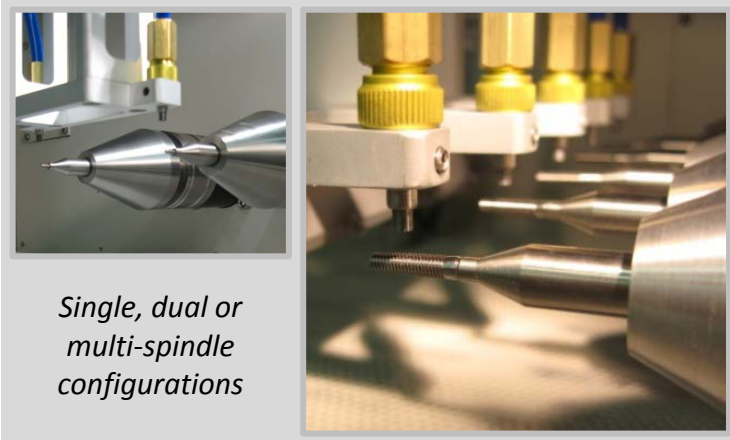
- Precise finishing with minimal embedding of the abrasive
- A consistent Ra finish on all surfaces of the implant
- Controlled blasting to avoid roughening the collar
- Eliminates risk of overblasting or thread erosion.

When used with a high-quality abrasive, microblasting is able to achieve a consistent, uniform texture on the surface of the dental implant. A tolerance of 5% can be produced on all surfaces.

The Benefits of LA3250 Automation

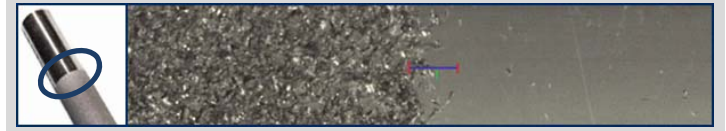
Precision implant designs require a high degree of uniformity across both the surface and part to part. The LA3250 achieves this with a repeatability exceeding .002”.

The LA3250 is also designed to eliminate overblasting. A typical implant requires less than 10 grams of abrasive to be completely textured. Use of additional media will only result in feature degradation and embedding of abrasive particles.



Single, dual or multi-spindle configurations

Perhaps the most powerful benefit to automation is that it allows for precise blast locations. The coordinated motion of all axes allows the LA3250 to achieve sharp delineation without masking.



Flexible Architecture Customizable to Meet Your Requirements

Programs are set up through the user interface, where all aspects of the abrasive process are controlled. An engineer can set up individualized programs for each different part to be processed.

The Advanced Lathe makes an effective tool for research and development.



Comco's Applications Lab

Comco's Applications Engineers have the expertise and complete test facilities to help you determine the right microblasting process for your dental implants.

Contact us today at 800-796-6626 or sales@comcoinc.com and discover the MicroBlasting solution to your production problems!

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