Micro-Abrasive Blasting Solutions for Dental Implants

Effective Surface Treatment

The different surface finishes required on small dental implants presents a manufacturing challenge that can easily be solved effectively through micro-abrasive blasting. This technology, derived from sandblasting, involves mixing fine abrasive with dry air that is streamed through a small nozzle to target small areas accurately.

Micro-abrasive blasting can be used to roughen the smooth surface finish on the threaded portion of the implant. Roughening this area of the implant increases the surface area for the tissue to take root, improving the bond. The ability to promote this tissue in-growth is a critical component to the implant's success.

Equally critical to manufacturing effective implants however, is maintaining a smooth surface on the apex of the implant. This helps prevent bacteria growth where the implant sits at the gum line. Any method used to roughen the surface of the threads must take care not to affect this area.

Micro-abrasive blasting can target 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.

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Precision MicroBlasting for Demanding Production Environments

Lean Manufacturing Solutions for Dental Labs

Comco has integrated the precision of micro-abrasive blasting with an advanced machining platform to create the ideal system for texturing dental implants. The Advanced Lathe LA3200 delivers a high degree of accuracy in its coordinated motion eliminating the need for masking. It ensures consistent results, improving the acceptance rate for quality assurance.

The Advanced Lathe is a lean solution: it is designed to operate in a production environment with minimal operator interaction. The operator simply loads the tooling and selects the appropriate program. The LA3200's smart tooling checks for errors before starting the blast cycle. If the tooling and program do not match or another error occurs, a warning message informs the operator. This reduces variations and errors in the manufacturing process.

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 flexible architecture also makes the Advanced Lathe an effective tool for research and development.

Comco's Applications Lab

Comco's Applications Engineers have the expertise and complete test facilities to determine if a micro-abrasive blasting process can improve your production efficiency and product quality.

Contact us today at 800-796-6626
and discover the MicroBlasting solution to your production problems!

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