

# Micro-Abrasive Blasting Solutions for Bone Screws

## Effective Surface Treatment

The manufacture of orthopedic products demands meeting close tolerances and rigid surface finish requirements. Precision machining can, however, leave behind an inconsistent surface finish. In a highly regulated industry, removal of these small burrs and undue sharpness is critical.

Micro-abrasive blasting is an optimal technology to remove machining defects. Derived from sandblasting, MicroBlasting mixes fine abrasive with dry air which is then propelled through a small nozzle. MicroBlasting is an ideal process for targeting small areas accurately.

One area targeted is the threaded portion of the bone screw. Micro-abrasive blasting removes burrs that could break off when the screw is implanted causing injury. It also smoothes overly sharp edges that could cut a surgeon's glove.



Micro-abrasive blasting is also used to finish the screw head. Whether hex- or square-fit, the screw broach may have small burrs that could break off when the screw is implanted.

Glass bead is the abrasive commonly used for MicroBlasting bone screws. The spherical shape prevents it from cutting into the surface of the part making it ideal for bone screws where the preservation of tight tolerances is critical.

Comco offers manual and automated solutions for processing bone screws.



# Precision MicroBlasting for Demanding Production Environments

## Lean Solutions for Bone Screw Manufacturers

Comco has integrated the precision of micro-abrasive blasting with an advanced machining platform to create the ideal system for texturing bone screws. The Advanced Lathe LA3250 delivers a high degree of accuracy in its coordinator 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 LA3250'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.



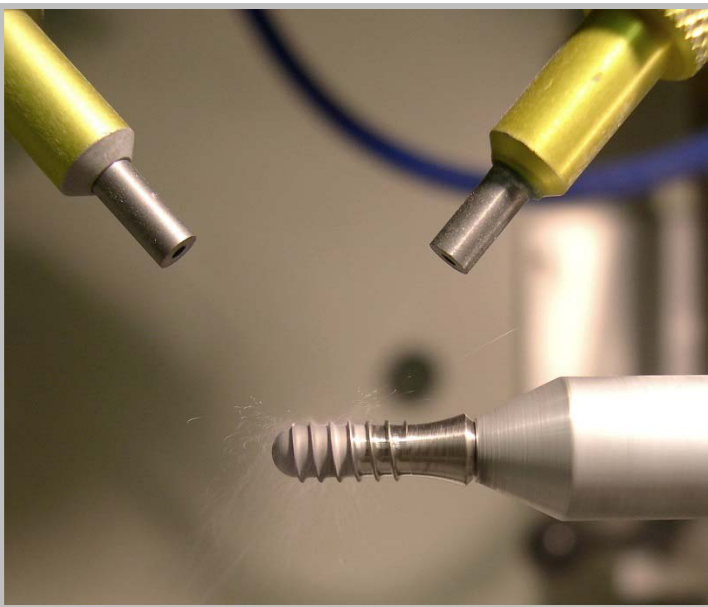
## Flexible Architecture Customizable to Meet Your Requirements

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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