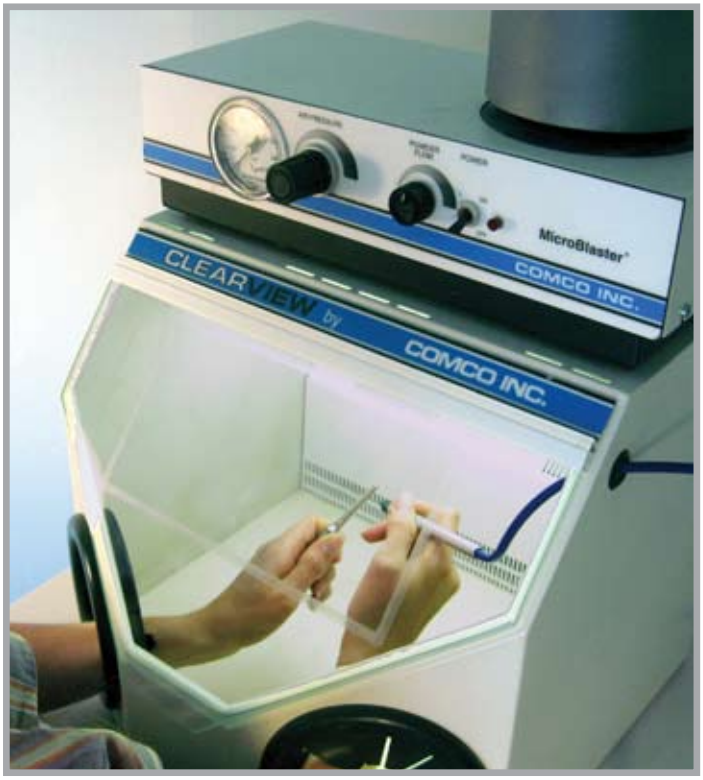
Micro-Abrasive Blasting Solutions for Bone Screws

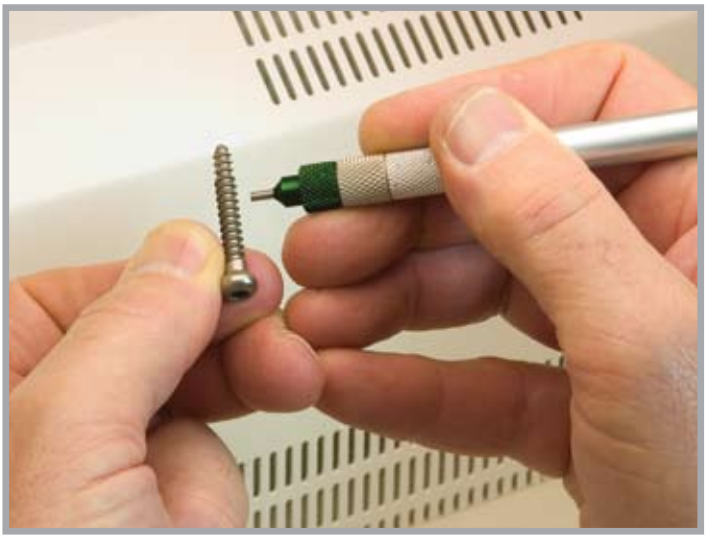
Effective Surface Treatment

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 smooths overly sharp edges that could cut a surgeon's glove.

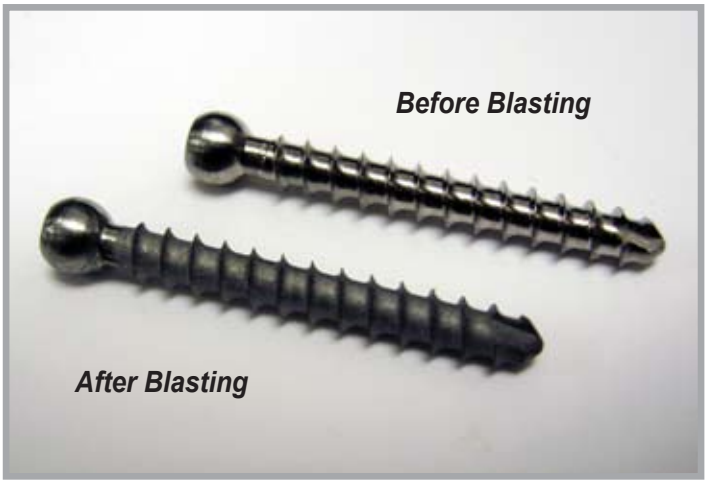




Micro-abrasive blasting is also used to finish the screw head. Whether hex- or square-fit, the screw broach may have small burrs that could break off when the screw is implanted.

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.



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