

Vital services for the medical sector

An extensive and unique range of solutions

Improving the performance and longevity of medical implants and instruments

Certified to the strictest production standards for quality and safety

The right treatment for metals, alloys and polymers...

Bodycote offers an extensive and unique range of heat treatments and specialist technologies to improve the performance and longevity of metal components and tools used by the medical sector.

■ Medical implants

Metal implants such as prostheses, joints and bone screws require critical treatments to improve their fatigue life and strength, eliminate internal porosity, and facilitate bonding between implant and body tissue.

■ Surgical instruments

Many surgical tools require vacuum hardening in order to strengthen the tools whilst maintaining their fine surface finish. In addition, vacuum brazing is used to attach carbide cutting medium to surgical saws and other implements.

■ Dental products

Treated to maintain surface finish, provide core hardness and a hard-wearing surface that can withstand numerous sterilisation cycles.

■ Seals and polymer items

Bodycote's Implantec® process can provide surface hardening and reduced friction coefficient for medical parts made from polymers, elastomers, ceramic and silicone materials, as well as metals.

Bodycote's range of heat treatments and specialist technologies for the medical sector includes:

- Hot Isostatic Pressing (HIP)
- Vacuum hardening
- Annealing
- Thermal spray coatings
- Implantec® (ion implantation)
- Vacuum brazing
- Ferritic nitrocarburising
- Casting densification
- S³P (Specialty Stainless Steel Processes)



S³P (Specialty Stainless Steel Processes)

Bodycote's proprietary S³P processes can help maximise the life of implants and tools of various grades of cobalt-chromium alloys and austenitic stainless steels, improving mechanical properties and maintaining corrosion resistance.

Bodycote is the world's leading provider of heat treatment and specialist thermal processing services

www.bodycote.com

Talk to us to find the right treatment solution for your medical component requirements:

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