



CROSSEN
ENGINEERING

MEDICAL (SURGICAL)

Cutting edge metal forming of surgical equipment

Surgical precision in the operating theatre demands surgical precision in the manufacturing of the instruments being used. Crossen Engineering's precision metal forming delivers high quality, bespoke surgical instruments made from medical-grade metals, and the benefit of our engineering know-how every step of the way.

Perfecting the design

With design, tooling, prototyping and full production all done at our premises outside Belfast, N. Ireland, you stay in control of manufacturing schedules and get to market more quickly.

Versatile production volumes

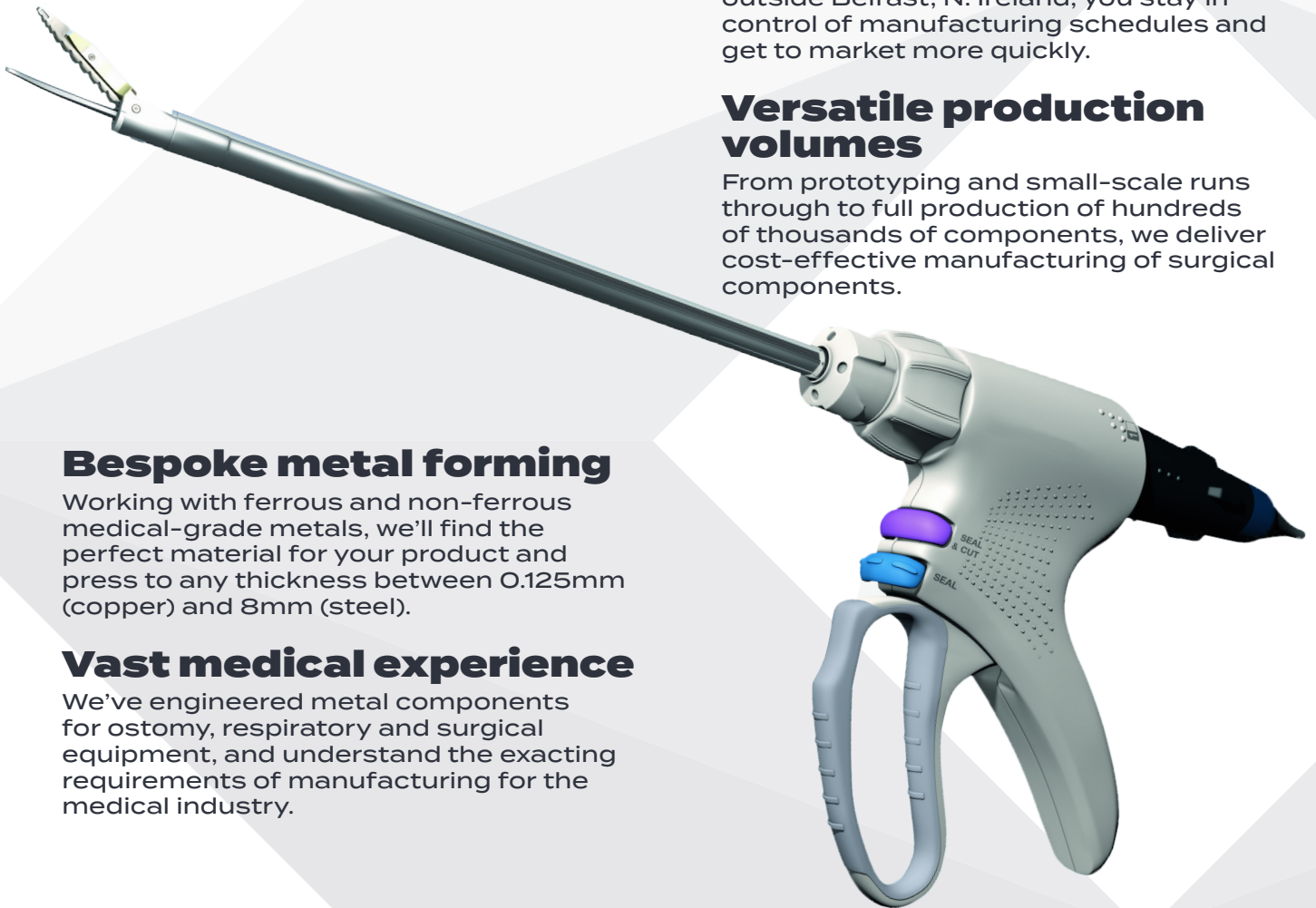
From prototyping and small-scale runs through to full production of hundreds of thousands of components, we deliver cost-effective manufacturing of surgical components.

Bespoke metal forming

Working with ferrous and non-ferrous medical-grade metals, we'll find the perfect material for your product and press to any thickness between 0.125mm (copper) and 8mm (steel).

Vast medical experience

We've engineered metal components for ostomy, respiratory and surgical equipment, and understand the exacting requirements of manufacturing for the medical industry.



**SPECIALISTS IN METAL FORMED &
PLASTIC MOULDED COMPONENTS**



Case Study

Medical engineering that's a cut above

Developing world-leading precision technologies for surgical and medical uses, our client approached us for assistance in the development of an innovative new electrode component for an atraumatic serrations sealing instrument. The new component gives more consistent compression so that the device can seal surgical cuts before bleeding starts, while also removing unwanted tissue more quickly.

The team started forming components made from stainless steel allowing for sharp, accurate cuts. During this time, our client shared with us that the parts were to be over-moulded providing a temperature-resistant protection for the electrode.

Given our expertise in medical-grade Metal Forming and Plastic Injection Moulding, and our ability to carry out a "single-source solution" our client issued all product production to be conducted at our facilities. For the over-mould we used a 50% glass-fibre reinforced polyacrylamide compound, which was used to ensure that the electrode was secure, strong and creep resistant.

Professionalism and precision

"Crossen Engineering's professionalism and precision expertise has been a real asset to our products' development, quality and emergence to market. The team's attention to detail made for a professional and advantageous partnership." - R&D Manager.

Let's discuss engineering your surgical components

We would love to talk to you about metal forming and plastic injection moulding of medical-grade components for your surgical instruments.

