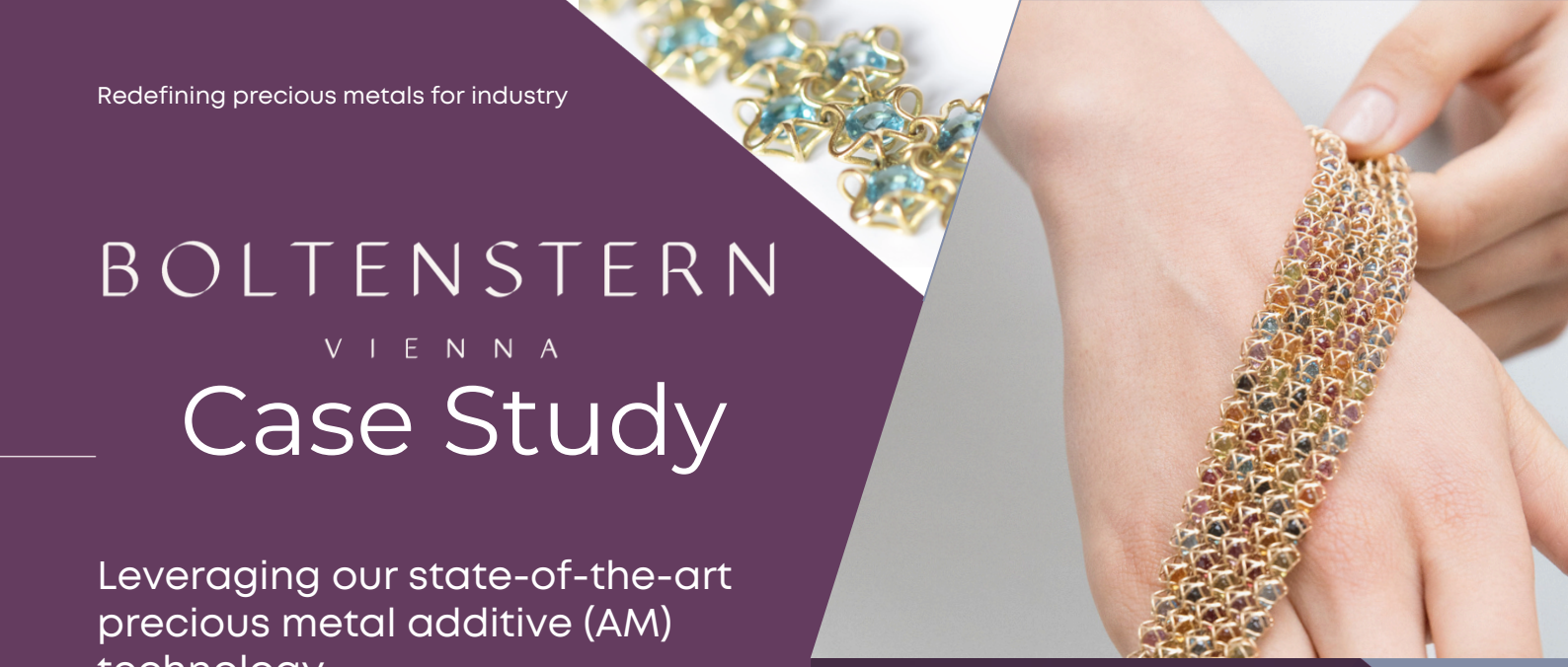
Redefining precious metals for industry



BOLTENSTERN
VIENNA

Case Study

Leveraging our state-of-the-art precious metal additive (AM) technology.

By 3D printing in recycled gold, silver and platinum, we enable luxury brands to create bespoke jewellery with complex shapes and woven structures that simply aren't possible with traditional methods.

> Our long-term partnership with Boltenstern has enabled us to bring intricate, customisable fine jewellery to life using 3D printed precious metals."

Ground-breaking 3D printed precious metal jewellery with Boltensterns.

Cookson Industrial are proud to be collaborating with Boltenstern, a fine jewellery brand based in Austria. Leveraging our state-of-the-art precious metal additive (AM) technology, Boltenstern has created a new generation of luxury jewellery, using 3D printed precious metals to realise designs that cannot be produced through traditional methods.

This special collaboration between us and Boltenstern has enabled the creation of intricate, customisable pieces such as bracelets, earrings and necklaces within the Embrace collection. Combining gemstones with complex woven structures, each design delivers a unique interplay of light, movement and texture – geometries only achievable through Additive Manufacturing.

Every precious metal jewellery piece is digitally designed using CAD models before being 3D printed on our Laser Powder Bed Fusion machines in gold, silver or platinum powders. Once printed, each component is carefully revealed from the powder bed, separated from its supports and meticulously hand-finished by skilled jewellers to achieve the highest standards of polish, comfort and wearability.

All our precious metal parts are crafted from sustainably sourced powder made from 100 percent recycled material. Our onsite powder manufacturing allows us to fully audit and manage recycling, removing the need for new metal mining and supporting truly responsible luxury for the modern jewellery market.

Cookson Industrial
Part of HM Precious Metals

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