

# LaserAbutments™



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## Introduction



Renishaw's LaserAbutments offer you new and potentially profitable advantages over traditional custom abutments. Made from CE marked cobalt chrome (CoCr), which is routinely used for crowns, partial dentures and implant bridges, the material has several benefits when used for abutments.

One advantage is the ability to create a screw-retained crown by simply adding porcelain.

LaserAbutments are supplied with a pre-polished emergence profile that in many cases requires no further hand finishing - saving you both time and money.

## Advantages

- Screw-retained crowns – These have a lower cost than an abutment/crown combination and are quicker to create
- Standard non-precious porcelains can be bonded to the surface – which can be more challenging with titanium
- CoCr is an easy material to re-polish after porcelain firing



Create screw retained crowns by simply adding porcelain

## Benefits

- Supplied with a pre-polished emergence profile
- Compatible with major implant types
- Renishaw can take data from selected open CAD/CAM systems
- Free of nickel, cadmium and beryllium
- Titanium screw included with each LaserAbutment
- Manufactured by Renishaw entirely in the UK using CE marked materials
- Produced using the computer controlled 'laser melting' process – giving more consistent results
- Manufactured in accordance with ISO 13485



Titanium screw supplied with each abutment

### How it's made

LaserAbutments are created using a high-tech computer controlled process called 'laser melting'. This 'additive' process is sometimes called '3D printing' because it builds up each framework in a series of successive thin layers 0.020 mm thick.

A high-powered laser beam is focused onto a flat bed of powdered metal (in this case CE marked CoCr) and the selected areas fuse into a thin solid layer. A second layer of powder is then spread over the first before the laser creates the next 'slice' of each LaserAbutment. When all layers are complete, the super-smooth, pre-polished emergence profile and implant interface are created.

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