

# LaserBridges™



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## Introduction



LaserBridges are implant supported frameworks. Made from CE marked cobalt chrome (CoCr) and faithfully reproducing the technician's design.

These screw-retained bridges give a superior quality of fit because the implant positions are captured using a high accuracy contact scanner.

Using additive manufacturing, the high-tech laser melting process, which is sometimes called laser sintering, builds the framework layer by layer. A final operation mills the implant interface positions.

## Scanning service available

We offer a scanning and manufacturing service for LaserBridges that is as easy as one, two, three:

1. **Freeport™ your model and wax-up design.**
2. **We will scan your job and manufacture your LaserBridge.**
3. **Receive your LaserBridge by courier.**



A LaserBridge supported by 4 implants

## Advantages and benefits

- High precision fit
- Fixed price per implant support
- Super occlusal detail
- All bridges are stress relieved for increased accuracy
- Excellent porcelain retention
- Free of nickel, cadmium and beryllium\*
- Designs can be sent from selected open CAD systems
- Interstitial details captured
- Manufactured in accordance with ISO 13485
- Manufactured by Renishaw entirely in the UK using CE marked cobalt chrome



LaserBridge framework

## How it's made

LaserBridges are created using additive manufacturing. The high-tech laser melting process, which is sometimes called laser sintering, builds up each framework in a series of successive 0.030 mm layers.

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 LaserBridge.

When every layer has been built up, the interface geometry is milled to ensure a passive fit with the implants.

\* In accordance with the manufacturer's reported nickel content and permitted deviation BS EN ISO 22674:2006

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