

LaserPFM™



LaserPFM

Introduction



LaserPFM is an ideal alternative to cast or machined semi-precious or non-precious crown and bridge frameworks.

Dental labs can take advantage of a product with a fixed price made from a traceable CE marked material - free from nickel, beryllium and cadmium*.

With far less adjustment and no possibility of a miscast, some labs are using this opportunity to remove casting from their lab altogether.

“Renishaw’s high quality custom-made products take the stress out of manufacture in our dental laboratory business; their dedicated team have become an extension of my workforce.”

**Steve Osgathorpe, Director
Dencraft South Yorkshire Ltd, UK**



Full arch LaserPFM framework

Advantages and benefits

- Fixed price per unit
- Free of nickel, cadmium and beryllium*
- Cost effective alternative to semi-precious material
- Designs can be sent from selected open CAD systems
- Excellent fit, less chair time, less adjustment
- Enables casting to be removed from the lab
- Increases lab capacity without extra staff
- No change to traditional porcelain techniques and materials
- Highly polished crowns have a lower cost than traditional gold crowns and are quicker to create
- All bridges are stress relieved for increased accuracy
- Manufactured in accordance with ISO 13485
- Manufactured by Renishaw entirely in the UK using CE marked materials



Full arch LaserPFM framework

How it's made

LaserPFM frameworks 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 LaserPFM framework.

When every layer has been built up, the solid frameworks are taken from the machine, grit blasted, polished, inspected and ultrasonically cleaned.

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