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**New horizons in custom LaserAbutments™**

Renishaw has collaborated with dental implant innovator BioHorizons to bring custom metal 3D printed abutments, known as LaserAbutmentsTM, to their customers for the first time.

The joint initiative enables dentists to offer custom abutments for restorations providing exceptional function and aesthetics, while maintaining high value for money.

The initiative is designed to meet the growing demand for abutments where bespoke design is required – to enable quality assured custom products and more flexible dentistry, particularly with angulation challenges – for an expanding global marketplace.

The new offer provides a technologically advanced custom abutment made by Renishaw’s hybrid manufacturing, which is 3D printed to capture fine occlusal details, and then precision machined to achieve precisely fitting interface geometry for screw-retained implants.

Following an ISO 13485 approved quality management system, the abutments are made from CoCr that has been biocompatibility tested according to ISO 10993. This enables standard porcelains to be bonded to the surface without a separate coping/crown, providing a screw-retained crown which can later be temporarily removed for hygienic maintenance or work on adjacent teeth.

Using Renishaw Dental Studio (RDS) software, dental labs design their abutment in-lab and submit it digitally to Renishaw central manufacturing, making LaserAbutments highly accessible to dental laboratories.

LaserAbutments are supplied with a pre-polished emergence profile, helping to save laboratory time, and with a titanium screw for each abutment.

Ed Littlewood, Marketing Manager at Renishaw’s Dental Products Division, explains: “This is yet another case of metal 3D printing innovation dismantling the limits of traditional manufacturing methods and opening new horizons for complex geometries and mass customisation of parts, at a very attractive cost”.

For further information on LaserAbutments, visit [www.renishaw.com/dental](http://www.renishaw.com/dental)

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