

First impressions are everything...

all ceramic jobs to larger operations. The lease also guarantees that there are no hidden costs. incise™ customers can always upgrade to the latest software and hardware when it becomes available.

All incise™ systems are supported by Renishaw's headquarters in Gloucestershire, UK. A team of specialists is in place to ensure that incise™ customers gain the best possible results from the Renishaw incise™ process.

Renishaw's dental training facility allows the dental team the opportunity to train on the incise™ process together. CAD/CAM training terminals are incorporated within a dental laboratory environment encompassing training on every aspect of the incise™ process.

Following the incise™ guidelines will generate a world class restoration offering:

- Accurate fit and marginal adaptation, aiding gingival health and minimising micro leakage.
- A restoration that exceeds clinical strength requirements.
- Excellent aesthetics can be achieved by using zirconia, unlike porcelain fused to metal (PFM) crowns.
- Greater longevity of restoration as a result of material stability and good marginal fit.

Fitting a poorly designed or manufactured restoration can lead to problems such as periodontal disease and loss of tooth vitality, secondary caries, fractured restorations, de-bonding of cement and poor aesthetics.



Overview

incise™ ceramic restorations are produced by a revolutionary dental system that focuses on precision at every stage of the process. The result is a crown or bridge that looks great and fits perfectly. Accurate measurement technology and dental industry research support the system design.

Superior precision is provided by Renishaw's renowned measurement and manufacturing technology, backed by pioneering research into clinical and laboratory processes.

As well as incorporating the very latest dental measurement technology, incise™ offers an easy and affordable route for dental laboratories to break into all ceramic dentistry and modern CAD/CAM technology. A simple incise™ scanner lease deal, enables smaller laboratories to take control of their own future rather than sub-contracting

All incise™ frameworks are supplied with a certificate showing an analysis of the framework fit to the original stone model.

So how does the incise™ system work?

1. The dentist is given a set of guidelines showing the ideal preparation to enable the optimum framework to be manufactured. The guidelines also outline how to obtain a good impression, particularly around the area of the prepared tooth. A good impression and an accurate stone model are fundamental to the success of the final restoration. Renishaw has exhaustively researched



and proved with the application of science, methods and materials that result in an accurate stone model.

2. Laboratory guidelines show the technician how to prepare and scan the model on the incise™ system.



3. The incise™ bridge framework process relies on the same simple techniques as single copings and uses a combination of software and pontic wax up to achieve the end result. Designing in CAD can be complex and difficult, especially on 3D objects. With incise™, this process is made simple. The dental technician can scan the model, wax up the pontic area only, rescan the model and return all the data to Renishaw to produce the optimum bridge framework.

4. Once the data has been captured, the laboratory technician adds the margin line to the data and electronically transfers this to the Renishaw manufacturing facility based in Gloucestershire, UK.



Renishaw's incise™ scanning machine

5. Within 48 hours, the zirconia framework (manufactured in line with Renishaw's ISO13485 medical quality standard) is sent back to the lab for finishing. For a full list of approved porcelains to apply to the frameworks visit www.renishaw.info/incise

The incise™ scanner is a contact based system using Renishaw's SP25 scanning probe. The complete scanning system is validated to ISO 10360 part 4 - an international standard relating to the accuracy of contact scanning systems. Contact scanning gives the best result from stone models, with no stray data and a very accurate representation of the model. The incise™ scanner has been developed using Renishaw's vast experience in measurement and control in demanding fields such as aerospace and Formula One Grand Prix racing. The company has received 11 Queen's awards in over 30 years of business.

To read more about incise™ and the incise™ process, visit www.renishaw.info/incise



Renishaw's dental training lab