

**CEREC® 3D Systems**

When you buy your CEREC® System from Ceramic Systems you can be sure to get the best price and exclusive special offers, but you also get access to the best CEREC® after sales support in the UK!

Set up the latest training facility - Gold Club for software upgrades, service and support - Support System and Service Engineers - Low cost finance arrangements for you.

**Kavo Units, unbeatable value**

Kavo Dental, the specialist designer and producer of surgical equipment, offers a complete range of units to meet the demands of the discerning professional. The new Kavo units are available in the Elos, Eto and 580 and 880 units enhance the already comprehensive Kavo range which currently includes the Primus 1500 family of units. All Kavo units are designed to combine superior levels of ergonomics, comfort and hygiene by providing patient comfort and a practical working position for the dental team. All units are available with mobile cart, over the patient, hanging delivery systems and with easy to clean surfaces. The Primus 1050, from only £10,700, is designed to offer all the quality and technology needed by the profession and benefit of working with flexibility. This unit allows for permanent installation in either the left or right-handed position, whilst offering ideal patient positioning. It also offers a number of new features including the Memolog storing system, the Memospot and multifunction foot control.

An exciting range of Genius imaging products enable this comprehensive range of surgical equipment, with the flexibility to all working spaces. For information regarding the full range of products visit www.decapinol.co.uk or contact your preferred KaVo Dealer Partner.

**A-dec 200 Press Kit**


- A-dec 200 is a complete system packed with features for added accessibility and comfort - all at great value and within a nest egg project package. Includes: the dental chair, delivery system, x-ray stands, x-ray film front support with machine, every detail on the new A-dec 200 is designed to enhance patient care and treatment efficiency and designed with patient comfort in mind. In eight seamless upholstery colours, the patient chair features four preset positions. The dual-articulating breast keeps patients comfortable during chair moves and the chair’s two-position armrests and natural seat variation provide additional patient comfort. To learn more about the A-dec 200, contact your local A-dec sales representative at www.a-dec.co.uk.

**DentalEZ Chairs & Stools**

DentalEZ pioneered sit-to-stand dental chairs in the 1950’s with the J Chair and have continued developing their technology over the years to suit the needs of the patient and the practitioner. The new 2011 Quicklase Lasers carry on this tradition and provide customers with the best in technology and style.

Whether you want a good round all starter package, such as the Simplicity, through to the GV Damon lase: Quicklase, with its range of full and unique unit lift, movement, for super luxury and super patient comfort.

DentalEZ have been making equipment for over 50 years and offer antimicrobial style, one patient cabinet and cart style units which can be customised to suit your surgery. For more information, please contact Ceramic Systems Limited on 01932 582930, e-mail enquiries@clarkdental.co.uk or visit www.clarkdental.co.uk

**Diamond Micro Luting**

Diamond Micro Luting Capsules are a resin-reinforced, chemical cure, 5-minute, hydrophilic, ultra-low shrinkage, highly radiopaque, bioresorbable luting cement that embodies innovation, style and performance and can offer you... the best in dental care, and offers a wide range of models and makes to suit every budget.

For more information contact Case Clinic Dental on 01268 735146.

Email: enquiries@clarkdental.co.uk or sales@clarkdental.co.uk

**Silent Dental Systems**

When you buy your Sirona Equipment from Silent Dental Systems you not only get the best price and exclusive Special Offers but you also get access to the best sales support in the UK! Only Silent Dental Systems can offer you...

- Comprehensive bespoke Project Management Services for Surgery refurbishments • Factory trained Engineers on site during delivery and installation • On-site training – Low cost finance packages for all products • Established 28 years

**Sirona**

Sirona Dental Systems offer the choice from the complete range of Sirona Treatment Centres, 2D and 3D digital and basic a ray apparatus – including Galilei 3D digital cone-beam equipment, their extensive range of Sirona handpieces, and auxiliary items including Sinolav, Sironet and DCM seating units. Sirona are proud of the Sirona Plus System, which currently includes the Primus 1500 family of units. All Sirona units are designed to combine superior levels of ergonomics, comfort and hygiene by providing patient comfort and a practical working position for the dental team. All units are available with mobile cart, over the patient, hanging delivery systems and with easy to clean surfaces. The Primus 1050, from only £10,700, is designed to offer all the quality and technology needed by the profession and benefit of working with flexibility. This unit allows for permanent installation in either the left or right-handed position, whilst offering ideal patient positioning. It also offers a number of new features including the Memolog storing system, the Memospot and multifunction foot control.

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**Support Seats from Qudent**

Qudent have recently been appointed distribution partners for Premier Support Stools in the UK.

**DURR Suction and Dental Art Cabinetry**

DURR Suction and Dental Art Cabinetry, as well as other essential equipment systems, dental lights, cabinetry, and hand pieces. Contact: Jo Gamble, Sales & Marketing Co-ordinator, A-dec, 11 Liberty Way, Athelbrooks Fields Industrial Estate, Nuttow, Walsall, WV6 0PD, jo.gamble@a-dec.co.uk

**Sintered Zirconia**

Sintered Zirconia has been used for many years in dental applications including crowns, bridges, and inlays. With the recent advancements in technology, it has become a more attractive option for dental professionals. Sintered Zirconia is made by heating a ceramic powder to a high temperature in a kiln. This process, called sintering, causes the ceramic particles to fuse together and form a solid mass.

**Clinical Applications**

Sintered Zirconia is often used as a base material for ceramic crowns and bridges. It provides a strong and durable foundation for the ceramic layer on top, which can then be polished to a high shine. It is also used as an inlay material, where it is placed directly into the tooth cavity.

**Advantages of Sintered Zirconia**

- High strength: Sintered Zirconia is known for its high strength and fracture toughness. This makes it a good choice for restoration of areas with high occlusal forces, such as posterior teeth.
- Excellent biocompatibility: Sintered Zirconia is a well-tolerated material that does not cause adverse reactions in the oral environment.
- Aesthetic: Sintered Zirconia has a similar appearance to natural tooth structure, allowing for a seamless transition with the existing tooth.

**Disadvantages of Sintered Zirconia**

- Limited esthetics: Sintered Zirconia lacks the translucent properties of full-contour ceramic crowns, which can make it less appealing in esthetics-sensitive cases.
- Inability to control thickness: Sintered Zirconia has a lower flexural modulus compared to full-contour ceramic crowns, which can limit the ability to create thin and delicate restorations.

**Preparation and Bonding**

Preparing the tooth is crucial for successful bonding of Sintered Zirconia restorations. The tooth surface should be prepared to a 45-degree bevel, and the bonding agent should be applied according to the manufacturer's instructions.

**Occlusal Contact and Retention**

Occlusal contact and retention are achieved through the use of a trying-in technique. The provisional restoration is removed, the tooth is prepared, and a trial restoration is placed and adjusted to achieve proper occlusal contacts.

**Conclusion**

Sintered Zirconia has become a popular choice for many dentists due to its strength, biocompatibility, and ease of use. However, it is important to consider its advantages and disadvantages when deciding on the best material for each individual case.