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CAD/CAM dental technology

Cercon smart ceramics® is the way forward – a system that enhances your craftsmanship, optimizes procedures and produces impressive quality.

The Cercon smart ceramics® system (abbreviated to Cercon®) was specially developed for preparing presintered zirconia all-porcelain frameworks in the dental laboratory. Since it was put on the market in 2001, almost **2,5 million dental restorations** have been fabricated worldwide using Cercon®. Frameworks can be fabricated with Cercon® using the standard technique with a wax pattern or virtually on the screen. Whether you use CAM or CAD/CAM – the options provided by Cercon® cover the whole spectrum of dental indications for fixed prosthetic all-porcelain restorations (following approval by DeguDent).

You also have the choice of fabricating the frameworks in your own laboratory using Cercon® brain or by central production using the DeguDent Compartis Center as well as a combination of the two procedures. You choose the most cost-effective method for your laboratory.



Cercon® brain

The Cercon® brain scanning and milling unit is the “hub” of the Cercon® smart ceramics system. The name Cercon® brain is also a synonym for customized CAM zirconia all-ceramic. You can create a large number of dental framework designs using Cercon® brain, including simple crown frameworks, complex bridge designs or superstructures. Developed for dental technicians, their technical expertise has been optimally integrated into the functional processes of the system. This makes Cercon® as multifaceted as dental technology itself. Only Cercon® base zirconia blanks can be milled in the Cercon® brain.

- Class II laser, 1 mW power
- Software-controlled processing of data, calculation of the enlargement factor and implementation of the milling programme



Technical data	
Dimensions (W x H x D)	850 mm/520 mm/620 mm, 33.46 in/20.47 in/24.40 in
Weight	approx. 120 kg/264.55 lb
Electricity supply	100 – 240 V~, 50/60 Hz
Maximum power consumption	approx. 750 W

REF 5557 0001 1 unit

Cercon® heat

Frameworks milled from Cercon® base zirconia blanks contract during a 6-hour sintering process to their ideal size and final hardness. The temperature cycle of Cercon® heat is precisely tailored to Cercon® base. Because the zirconia we use is particularly fine-grained, a “low” sinter temperature of 1,350 °C can be used. This extends the service life of the furnace and reduces energy costs.



Technical data	
Dimensions (W x H x D)	500 mm/520 mm/620 mm, 19.68 in / 20.47 in / 24.40 in
Weight approx.	80 kg/176.36 lb
Electricity supply	200 – 240 V~, 50/60 Hz
Maximum power consumption	ca. 1,600 W rated current 6.9 A
Maximum temperature	1,350 °C

REF 5558 0001 1 unit

Cercon® clean

The Cercon® clean reliably extracts the dust created during milling. With Cercon® brain and Cercon® clean the dust level is kept well below the maximum concentration (TLV threshold limit value) at the workplace of 1 mg/m³ permitted for zirconia. This quality has been confirmed in workplace measurements by an accredited measuring institute.

Technical data	
Dimensions (W x H x D)	450 mm/550 mm/500 mm, 17.71 in/21.65 in/19.68 in
Weight approx.	15 kg/ 33.06 lb
Electricity supply	100 – 120 V~, 50/60 Hz, 200 – 240 V~, 50/60 Hz
Maximum power consumption approx.	600 W



REF 5559 0010 1 unit

Cercon® base

Cercon® base

Presintered zirconia has the advantage that its chalky consistency allows it to be milled quickly without damaging its material properties. Its final hardness is the same as that of fully sintered zirconia, as confirmed by a recent study. The ultra-fine zirconia powder used for Cercon® base is tested for its medical quality and then processed into blanks at DeguDent. Tested batch for batch, you can rely on a material quality that provides the ideal basis for your high-quality restorations. Cercon® base white and ivory (Cercon® base colored) provide an optimum initial base for all facingshades. Additional costly working stages involving liquid stains are eliminated. High strength is also guaranteed by the integrated pigmentation of Cercon® base colored.

Cercon® base 12	1 piece package	REF 6601 0001
Cercon® base 12	5 pieces package	REF 6601 0005
Cercon® base 30	1 piece package	REF 6603 0001
Cercon® base 30	5 piece package	REF 6603 0005
Cercon® base 38	1 piece package	REF 6604 0001
Cercon® base 38	5 pieces package	REF 6604 0005
Cercon® base 47	1 piece package	REF 6606 0001

Cercon® base 12 colored	1 piece package	REF 6601 0011
Cercon® base 12 colored	5 pieces package	REF 6601 0015
Cercon® base 30 colored	1 piece package	REF 6603 0011
Cercon® base 30 colored	5 pieces package	REF 6603 0015
Cercon® base 38 colored	1 piece package	REF 6604 0011
Cercon® base 38 colored	5 pieces package	REF 6604 0015
Cercon® base 47 colored	1 piece package	REF 6606 0011

Sample Chip, printed	1 piece package	REF 6611 0001
Sample Chip, plain	1 piece package	REF 6611 0002



- For frameworks with an anatomical length of 12, 30, 38 and 47 mm
- Cercon® base 47: specially for anterior arch bridges, even with a large radius, as well as in posterior regions with a pronounced curvature. Also suitable for suprastructures in implant work



see: Instructions for use and System components



Veneering ceramic Cercon® ceram kiss page 24, 25, 26, 27, 28

Cercon® and Compartis® CAD/CAM-Technology

Cercon® art

Our focus is also on the dental technician during “virtual” framework design. The software has been designed to follow systematically the working stages normally completed by the technician in wax thus enabling the dental technician to work intuitively with the software. In a similar way to using waxing-up instruments, adjustments can be made but this time using slide controls. Ergonomically, quickly and reliably.

Cercon® art and its components:

- Cercon® art PC (without keyboard)
- Cercon® art flat screen monitor
- Cercon® move Navigation module
- Cercon® art keyboard (country specific)
- Cercon® art Scanholder-Set, Scanholder, Scan-Template, Plasticine, Solder Masking Lacquer, Brush
- Cercon® art Software (only available with PC)

Technical data	
Cercon® art Computer:	
Dimensions (W x H x D)	200 mm/370 mm/370 mm, 7.87 in/14.56 in/14.56 in
Weight	approx. 11 kg
Power supply	100 – 127 V~, 50/60 Hz, 200 – 240 V~, 50/60 Hz
Maximum power consumption, Rated current	6 A – 3 A
Technical data	
Cercon® art Monitor:	
Dimensions (W x H x D)	369 mm/495 mm/268 mm, 14.52 in/19.48 in/10.55 in
Weight	approx. 6.5 kg /14.33 lb
Power supply	100 – 240 V~, 50/60 Hz
Maximum power consumption, Rated current	1,4 A
Technical data	
Cercon® move:	
Dimensions (W x H x D)	141 mm/40 mm/203 mm, 5.55 in/1.57 in/7.99 in
Weight	approx. 0.7 kg/1.54 lb



Cercon® eye

The Cercon® eye scanning module upgrades the CAM zirconia allceramic system, Cercon® smart ceramics, to a CAD/CAM system.

Cercon® eye provides the following options:

- Fabrication in the laboratory with Cercon® brain
- Network fabrication between the laboratory and a Cercon® brain laboratory
- Network fabrication between the laboratory and DeguDent

The high-quality measuring instruments integrated in Cercon® eye and the precise interaction of the components ensure accurate data acquisition of the die and ridge segments and of the adjacent teeth. With Cercon® eye the scanned model segments of the master model are referenced in direct relation to one another, i.e. they are transferred in their actual, correctly aligned position. A realignment of partial scans via matching is superfluous. The mastermodel is displayed in a 1:1 scale. The advantage is an accurate reproduction of the original model.



Technical data

Dimensions (W x H x D)	490 mm/447 mm/569 mm, 19.29 in/17.59 in/22.40 in
Weight	approx. 31 kg/68.34 lb
Power supply	100 – 240 V~, 50/60 Hz
Maximum power consumption	approx. 100 W



see: Cercon® System components

You can arrange your Cercon®-System individually. No matter which system you prefer – the purely CAM supported working with Cercon® “classic” or the complete scale of benefits with the CAD/CAM working – for your choice you can see the respective configuration below:

		Cercon® “classic”	Cercon® “classic plus”	Cercon® “CAD”	Cercon® “speed module”	Compartis® access	
Cercon® brain	1 unit	✓	✓	✓			REF 5557 0001
Cercon® clean	1 unit	✓	✓	✓			REF 5557 0010
Cercon® heat	1 unit	✓	✓	✓			REF 5558 0001
Cercon® eye	1 unit			✓		✓	REF 5564 0001
Cercon® art PC (without keyboard)	1 unit		✓	✓	✓*	✓	REF 5530 0003
Cercon® art Flat screen monitor	1 unit		✓	✓	✓*	✓	REF 5530 0123
Cercon® art keyboard (country specific):							
Cercon® art keyboard (E)	1 unit		✓	✓	✓	✓	REF 5530 1036
Cercon® art keyboard (F)	1 unit		✓	✓	✓	✓	REF 5530 1038
Cercon® art keyboard (GB)	1 unit		✓	✓	✓	✓	REF 5530 1039
Cercon® art keyboard (I)	1 unit		✓	✓	✓	✓	REF 5530 1043
Cercon® art keyboard (USA)	1 unit		✓	✓	✓	✓	REF 5530 1052
Cercon® eye Switcher (optional)	1 unit				✓*		REF 5564 0140
Cercon® move Navigation module	1 unit		✓	✓		✓	REF 5530 0153
Cercon® art Scanholder-Set, Scanholder, Scan-Template, Plasticine, Making Paint, Brush (for Scans of single-dies by Cercon® brain)	1 unit		✓				REF 5530 0183
Cercon® art Software (only available with PC)	1 unit		✓	✓		✓	REF 5530 0111

* „Speed module“ alternatively with Flatscreen monitor and keyboard or switcher

Cercon® link (Modelling Aid, Attachment)

The Cercon® link extracoronal attachment can be used in fabricating sectional Cercon® base bridge frameworks with divergent abutment teeth.



REF 2401 5200

25 pieces package

Technical data	
Material	Polysulfone
Height with mandrel	41.0 mm
Height	7.0 mm, can be shortened to 4.0 mm
Width at heights	7 mm x 4 mm
Connector	3.1 mm x 2.5 mm
Mortise	4.5 mm x 3.9 mm (cone base)
Length	9.0 mm

Assortment set

Content:

2 Burr fine 1.0; 2 Burr coarse 2.8; 2 Allen screw key small/big; Model frame (Size: 12, 30, 38) each 1 piece; Milling frame (Size: 12, 30, 38) each 1 piece; 2 Set screw 4x 8 mm; 2 Set screw 5x 8 mm; Positioning (Size: 12, 30, 38) each 1 piece; 2 Hair Brush; 1 Scan Powder

REF 5557 0100 1 unit

Individual parts

Model frame



Model frame 12	1 unit	REF 5557 0121
Model frame 30	1 unit	REF 5557 0122
Model frame 38	1 unit	REF 5557 0123
Model frame 47	1 unit	REF 5557 0125

Milling frame



Milling frame 12	1 unit	REF 5557 0106
Milling frame 30	1 unit	REF 5557 0107
Milling frame 38	1 unit	REF 5557 0108
Milling frame 47	1 unit	REF 5557 0110

Positioning Screw (12, 30, 38)	1 set	REF 5557 0135
Positioning Screw 47	1 unit	REF 5557 0136
Burr, fine	1 unit	REF 5557 0102
Burr, coarse	1 unit	REF 5557 0101
Allen screw, small	1 unit	REF 5557 0116
Allen screw, big	1 unit	REF 5557 0117
Set screw, small	2 piece	REF 5557 0119
Set screw, big	2 piece	REF 5557 0120
Scan Powder	1 unit	REF 5557 0131
Vacuum Cleaner Bag	5 piece package	REF 5559 1180
Cercon® Sintering Tray Set	1 set	REF 5557 0150
Cercon® Hollow Ball	1 unit	REF 5557 0153
Cercon® Wax-sticks, 100 g/3.5 oz	1 box	REF 2371 0001

Cercon® art



Cercon® art PC (without keyboard)	1 unit	REF 5530 0001
Cercon® art keyboard	1 unit	REF 5530 1034
Cercon® art Flat screen monitor	1 unit	REF 5530 0123
Cercon® move Navigation module	1 unit	REF 5530 0153
Scan Template, single	1 unit	REF 5530 1001
Plasticine for Scan Template	1 unit	REF 5530 0170
Solder Masking Lacquer	1 unit	REF 2545 0100
Cercon® art wireless Access Point	1 unit	REF 5530 0184
(1) Cercon® art Scanholder-Set, Scanholder, Scan-Template, Plasticine, Solder Masking Lacquer, Brush	1 unit	REF 5530 0183

Cercon® eye



(1) Cercon® eye Model-table	1 unit	REF 5564 0100
(2) Cercon® eye Calibration ball	1 unit	REF 5564 0110
(3) Cercon® eye Scanholder	1 unit	REF 5564 0120
(4) Cercon® eye Scan-template	1 unit	REF 5564 0130
(5) Cercon® eye under cut wax, 60 g/2.11 oz	1 unit	REF 2371 0101
Cercon® eye Scan-Spray, 50 ml/1.69 fl.oz	1 unit	REF 2371 0102
Cercon® eye switch	1 unit	REF 5564 0140

Cercon® periphery

Cercon® mill

Lube-Free Lab Air Turbine with water cooling system, complete with Steering unit and foot switch

REF 5570 0001 1 unit



www.DeguDent.com

Our performance – your success

Our website generally has all the data that you need – all up to date and complete. Get comprehensive information about our products, services and events. Or visit our brand-specific websites for Golden-Gate System, Kiss and Cercon smart ceramics.

Our web services include:

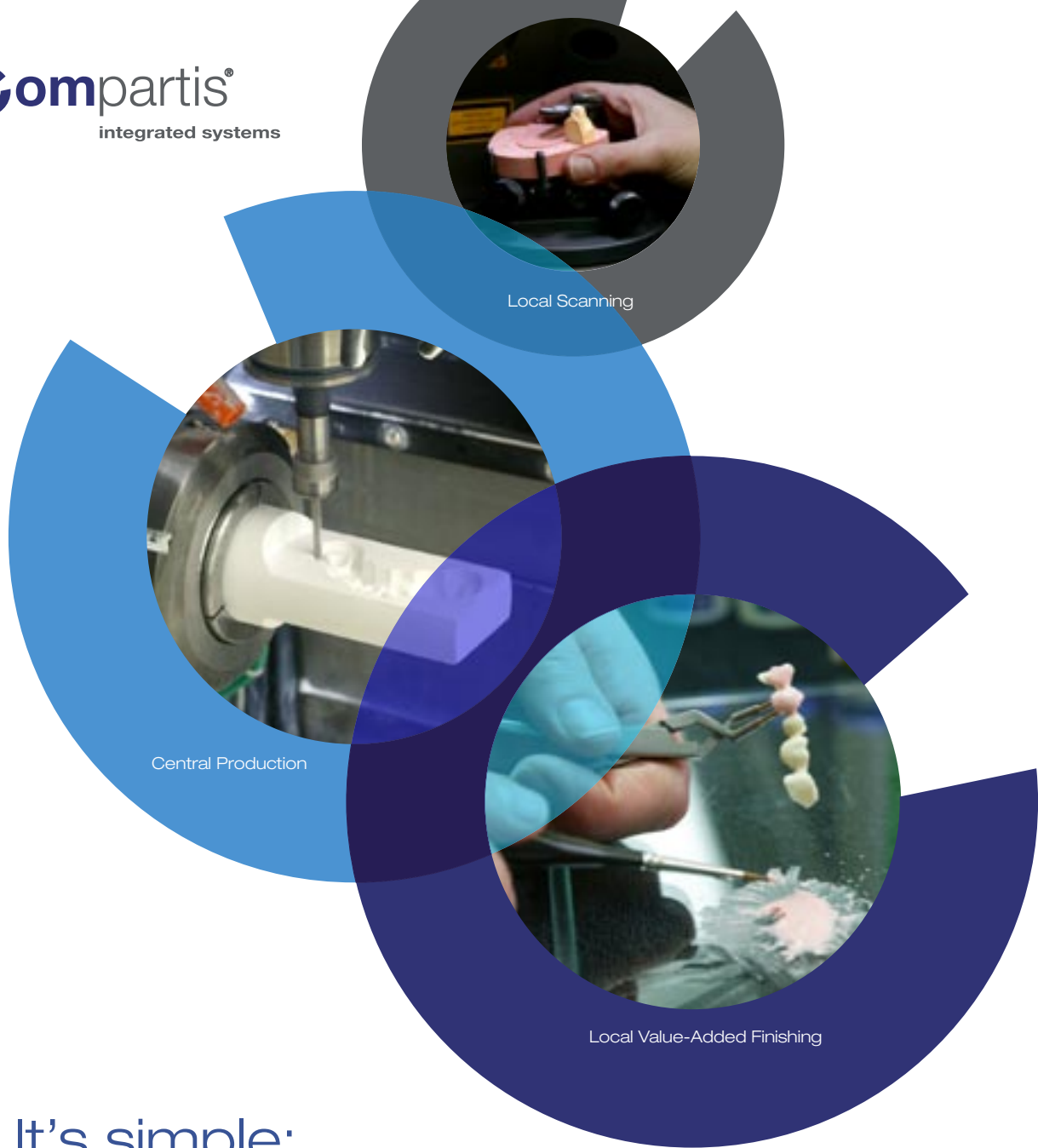
- Extensive downloads
- Alloy Assistant for selecting the right alloy
- Continuing education schedule and calendar of events; online registration available
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It's simple: Compartis integrated systems

With Compartis Integrated Systems, you and your laboratory will enter the world of central network fabrication based on local CAD/CAM technology – smoothly and seamlessly. And you will quickly realize that everything has become simpler. Safer. More accurate.

The Compartis process consists of three perfectly attuned components – local scanning in the laboratory, central network fabrication and your local value-added finishing steps. Compartis offers you a whole range of benefits:

- Outsourcing time-consuming preliminary steps
- Large variety of approved materials and indications.
- Precision technology for an excellent fit
- No high capital expenditure
- State-of-the-art technology at all times.

Compartis: Simpler. Safer. More accurate.