Interdent: CAD/CAM comprehensive solution for amazing results

Author: Urša Zagožen, Slovenia

Interdent is a European manufacturer of materials for dental laboratories and one of just six manufacturers of dental alloys, from melting to final product. The company offers a complete solution with its CAD/CAM System, which includes milling units and various kinds of discs.

With more than 37 years of experience in dentistry and exportation to more than 50 countries around the world, the company’s mission is to produce quality products at a reasonable price in order to achieve mutual collaboration with its customers and their complete satisfaction (Fig. 1).

In order to achieve that, the company responds to new trends and offers its customers a wide range of discs, which are produced in accordance with European legislation and provide customers with high-quality and dependable results.
Becoming king with Interdent’s cobalt–chromium discs

CC DISK NF CoCr is the successor to the classic I-Bond NF dental alloy, also known as “the king among alloys”, which has been on the market for many years and has numerous satisfied users. For the last two years, it has continued its reputation in the form of a disc intended for porcelain-fused-to-metal restorations. Its greatest advantage is an ideal coefficient of thermal expansion (13.9 to 14.0 × 10⁻⁶ K⁻¹) and, for this reason, is the first disc on the recommended list of alloys for VITA Zahnfabrik metal–ceramics. The disc guarantees customers safety and consistent quality. Distinguished dental technician Vanik Kaufmann-Jinoian from Switzerland attests to this: “CC DISK NF CoCr is one of the best discs made of non-precious alloys that I have used so far for milling structures such as bridges and copings. This alloy gives me safety, quality and profitability in performing dental restorations of high quality.” CC DISK NF CoCr is available in thicknesses of 8, 10, 12, 13.5, 15 and 18 mm (Figs. 2 & 3).

You use zirconia discs at work, but do you desire aesthetics comparable to that of lithium disilicate?

Then CC DISK Zr Smile will fulfill your wishes: owing to its 49% light transmission at 1 mm and translucency, which is close to that of lithium disilicate, it produces top-notch results. It is specifically designed for aesthetic solutions in the anterior region. CC DISK Zr Smile is available in thicknesses of 12, 14, 16, 18, 20 and 25 mm (Figs. 4a & b).

One of a kind

CC DISK Zr Multicolour is another highly aesthetic zirconia disc. Produced with a colour gradient, it offers aesthetic solutions in designing anatomic crowns and frames for ceramic firing. Forget about staining and firing—you are only one step away from the perfect aesthetic solution with this zirconia disc. It is available in thicknesses of 14, 18 and 22 mm and in the following translucent versions: A2 with colour gradient A1–A2.5 and A3 with colour gradient A2–A3.5 (Fig. 5).

Figs. 4a & b. CC DISK Zr Smile (a), and a demonstration of its high translucency (b). Fig. 5. An aesthetic construction milled from CC DISK Zr Multicolour. Fig. 6. Interdent discs made of various materials (CoCr, Ti, Zr, PMMA). Fig. 7. CAD/CAM mills of different shapes for different materials.
Besides the discs already mentioned, Interdent has several other high-quality and well-priced discs in its range. They are available in various thicknesses and (some of them) even in different colours. The disc size, with a diameter of 98 mm, is suitable for the widest CAD/CAM milling units.

The offering of Interdent discs made of various materials includes the following (Fig. 6):

- **CC DISK Zr** is made of biocompatible pre-sintered zirconia. It is available in two different translucencies (ordinary and high translucency) and in different colours.
- **CC DISK Ti2** is used for the production of crowns and shorter range bridges and single superstructures over implants.
- **CC DISK Ti5** boasts particular hardness (Vickers hardness of 353) and it is thus used to produce appliances that need to be rigid and tough, such as single crowns, larger bridges, and especially superstructures over implants.
- **CC DISK PMMA** is used for fabricating temporary restorations, for gingival formation after placing implants, and for accurate determination of the occlusal contacts before seating zirconia prosthetic structures.
- **CC DISK PMMA Transparent** is used for manufacturing cast and anatomical constructions, for press ceramic and for verifying larger constructions thereafter made from zirconia.
- **CC DISK PMMA Pink** is used for fabricating the base for complete prostheses, partial prostheses, and immediately loaded dentures on implants as a long-term provisional solution.
- **CC DISK PMMA X-Ray Opaque** is used in CAD/CAM milling machines for making X-ray visible teeth on an implant diagnostic template to view the placement of the teeth while planning the position of the implant.
- **CC DISK WAX** is used for making crowns, bridges, and cast bases.

In order to achieve the best results, it is important to use a specifically designed rotating instrument for each material. Interdent offers these rotating instruments in its CAD/CAM System besides the three milling units, CC POWER, CC COSMO and CC TRENDY (Figs. 7 & 8).