

PRESS RELEASE | DENSPLY FRIADENT

ANKYLOS® C/X – the new generation

Long-term tissue retention and excellent esthetics

Mannheim, June 23, 2008 – **All the advantages of an implant system with 20 years of clinical success combined with an innovation so far unique in implantology: ANKYLOS® C/X. The new generation of ANKYLOS® now offers the option of indexed or non-indexed prosthetics in only one implant and it also offers a newly designed prosthetic system, a completely redesigned seating procedure and a new packaging concept. ANKYLOS® C/X leaves the decision to the implantologist: you can use the index as a positioning aid if this makes the prosthetic procedure easier. Or you can use the tapered connection design with index if this is required by the prosthetic plan. The abutment remains rotation-locked in both cases with the full-contact keyed and friction-locked taper, and it can still be combined as desired. Every abutment fits into every implant.**

ANKYLOS® C/X – achieve lasting esthetic success with a perfect connection

ANKYLOS® C/X is still a guarantee of long-term tissue retention and a lasting esthetic result with the keyed and friction-locked ANKYLOS® TissueCare Connection, which provides equal stability between implant and abutment to that of a single-component implant system. There is virtually no micromovement between implant and abutment, which almost completely eliminates mechanical irritation. Even gap formation between implant and abutment is minimized, preventing bacterial colonization. And finally the geometry of the TissueCare Connection transfers the connection between implant and abutment to a central point. This system-independent platform shifting establishes a wide horizontal base on the implant shoulder for stable deposition of hard tissue and soft tissue.

The interplay of all these factors establishes genuine TissueCare, which means the desired long-term tissue retention and correspondingly reliable long-term esthetics.

Outstanding esthetic results with new prosthetics

Every indication requires its own restoration. The new ANKYLOS® Regular "C/" and "X" prosthetic components incorporate feedback from dental technicians. An enlarged abutment head helps reduce casting problems. The reversed, now convex sulcus geometry offers greater options for customization and enables an improved emergence profile. The well-known sulcus margins of 0.75 mm to 4.5 mm are now supplemented by the missing angulations up to 37.5 degrees. All abutments are prepared for a multifunctional snap-on cap. The prosthetic components are marked with "C/" for taper for the non-indexed type and with "X" for the indexed type. All components marked "C/X" can be used for both types.

Accurate placement with simple seating procedure

ANKYLOS® C/X has a clear step between the implant and the seating coping. This helps the implantologist to position the implant accurately. There is an edge on the seating coping 1 mm above the implant shoulder to indicate the depth of the implant for subcrestal placement. A second groove at 3 mm is designed to assist with estimating the thickness of the gingiva for a flapless procedure. In contrast to the former adapter screw, the new seating coping connects directly to the tapered geometry. This ensures a more stable connection between coping and instrument and additional security when screwing in the implants. The cover screw for implants is now included in the package and is only inserted if submerged healing is wanted. The implant is closed with a gingiva former for transgingival healing or fitted with an abutment for immediate restoration.

The implant shuttle for safe handling

The new package design by DENTSPLY Friadent ensure easy removal of the implant and maximum safety in every phase of treatment. The newly designed implant shuttle can be handed to the implantologist by the assistant without difficulty and without contact. The implant is fully protected by the special, easily gripped plastic holder, in which it fits perfectly. The ergonomic design of the shuttle makes it easy and comfortable for the implantologist to remove the implant with the seating instrument. The shuttle is sealed in a double-sterile blister package to ensure maximum safety in every phase of treatment – conforming to the increasingly rigid regulations for packaging medical devices.

The option of indexing

With the new ANKYLOS[®] C/X the implantologist now has the choice of selecting a tapered connection only or an indexed connection. The indexing is provided by the abutment. The dentist can decide at the start of the prosthetic restoration whether to use the freely positionable TissueCare connection or use it with an index. The indexing gives the user the option of placing the abutment in one of six indexed positions, which makes it unnecessary to use to the transfer tray. The keyed and friction-locked tapered connection offers optimum stability and rotation-locking with both options.

A progressive thread for accurate force application

The progressive thread design of ANKYLOS[®] implants, unchanged for 20 years and clinically proven, is ideally designed for the structure of the bone. The thread depth, which increases towards the apex of the implant, transfers the load to the softer cancellous bone. The curved profile of the thread pitch transfers lateral forces to the bone. These two factors helps transfer loads away from the cortical bone and ensure retention of the crestal bone.

Microstructure promotes ankylotic healing

To ensure successful treatment, ANKYLOS[®] C/X implants have the clinically proven, growth-activating FRIADENT[®] plus surface. The microstructure promotes the deposition of bone-forming cells. The formation of new bone is encouraged by the fast formation of a dense fibrin network over the whole surface, assisting the implants to heal faster and with greater stability.

Further information on the ANKYLOS[®] implant system from DENTSPLY Friadent is available at <http://ankylos.dentsply-friadent.com>

DENTSPLY Friadent company portrait

DENTSPLY Friadent is the implant division of the American company DENTSPLY International, the world leader in the dental industry with over 9,000 employees in total. At its company headquarters in Mannheim, Germany, the implant specialist employs a staff of around 450 and is one of the most innovative and leading companies in its industry. The company is represented around the world with its own subsidiaries, DENTSPLY sister companies and dealers.

The functionally and esthetically sophisticated implant-based dental solutions allow people a self-confident and natural smile. With its brand implant systems ANKYLOS[®], XiVE[®] and FRIALIT[®], as well as its FRIOS[®] line of surgical instruments and bone replacement materials, DENTSPLY Friadent offers a comprehensive portfolio of dental prosthetic solutions with excellent clinical results. Alongside the strong product brands, the successful product range is rounded off with innovative technologies, such as computer-aided implantation with ExpertEase[™], the surface technology FRIADENT[®] plus or zirconia technology CERCON[®] in association with the world market leader DENTSPLY, and a practice marketing and practice management program tailored to practices offering implantology under the *stepps*[®] service brand.

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Publisher:

DENTSPLY Friadent, Friadent GmbH, Steinzeugstr. 50, 68229 Mannheim, Germany,
www.dentsply-friadent.com

Editor / contact:

Edelman GmbH, Nadine Dusberger, Niddastr. 91, 60329 Frankfurt am Main, Germany
Tel. +49 69 756199-43, Fax +49 69 756199-13, nadine.dusberger@edelman.com