



Pilot drill | CeraDrill®



High efficiency pilot drills made of ceramics for use in implantology.

CeraDrills® are universal pilot drills within the Komet® “CeraLine” for use in implantology. These are made of innovative high efficiency ceramics featuring an excellent cutting performance.

For the first time ever, the CeraDrill® offers the possibility of working without any metal, thus guaranteeing a biocompatible and absolutely antiallergenic operation. Damages from disinfecting and cleaning steel burs with inappropriate agents are now a thing of the past.

The multifunctional ceramic pilot drills K210 are ideally suited for initial preparation of the implant site axis and depth. The drills feature high initial sharpness and optimal cutting efficiency, thus achieving an effective material reduction. Due to their high efficiency toothing and the distinct tip-transversing blade, the drill has very good axial drilling properties for precise cutting without the need for prior use of a centering bur. The special twist drill blade geometry ensures

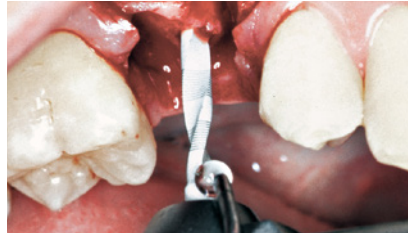
smooth and precise operation. Moreover, the depth markings, which are lasered on to the working part in 2 mm intervals, guarantee precise and safe control of the penetration depth.

Advantages at a glance:

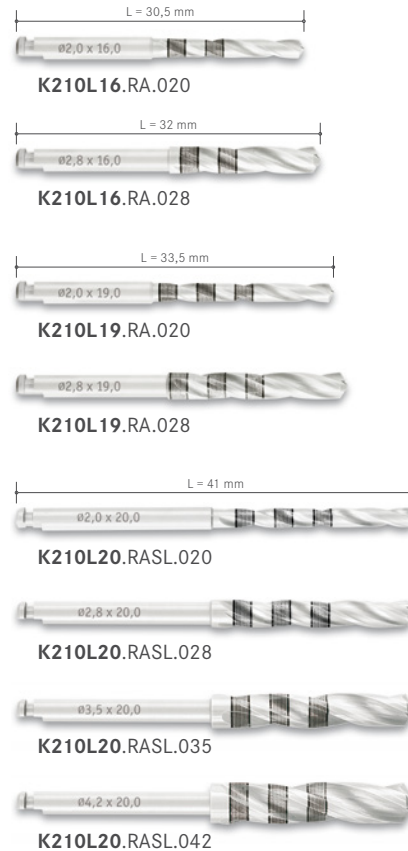
- Corrosion-free
- Biocompatible
- Free of metal
- S-shaped tip-transversing blade for easy penetration
- Stepped blade shoulder for low bone friction
- Large chip spaces for optimal chip removal
- Lasered depth markings in intervals of 2 mm, beginning after 8 mm on the cylindrical diameter (not including the tip)

Indications:

1. For initial preparation of an implant site.
2. For determination of position, direction and depth.



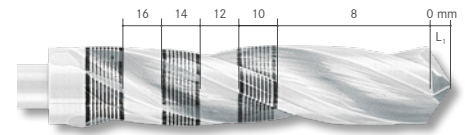
Illustrations by courtesy of the university hospital Münster, Germany



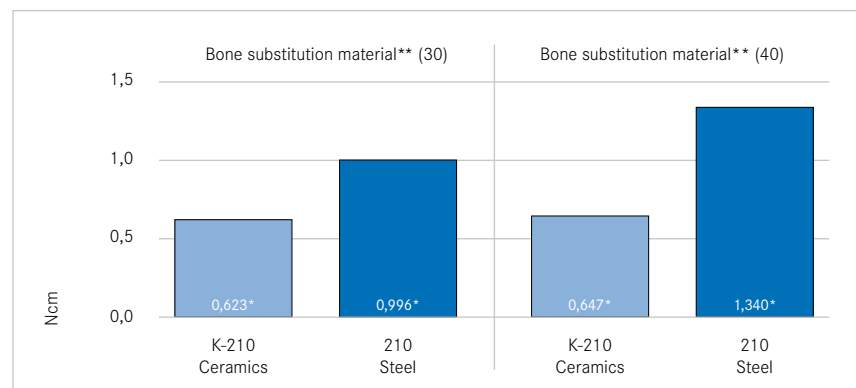
Recommendations for use:

- Drilling with the CeraDrill® pilot drills K210 should be carried out in an intermittent mode using low contact pressure and constant exterior cooling with sterile physiological saline solution up to the required depth.
- Optimal speed: ω_{opt} 800 – 1,000 rpm in the green right-angle with at least 10:1 reduction.
- Make sure the drill neither jams nor is used as a lever.
- Only use brushes with metal-free bristles for pre-cleaning as these do not leave discolorations caused by abrasion on the instruments.

US patent 2006/0127 847 pending



Steel pilot drills require approx. 40% – 50% higher torques than ceramic pilot drills



* determined by tests carried out with instruments of size 020 with 19 mm length

**polyurethane foam in accordance with ASTM F-1839 for testing orthopaedic instruments (in quality 30 and 40)

