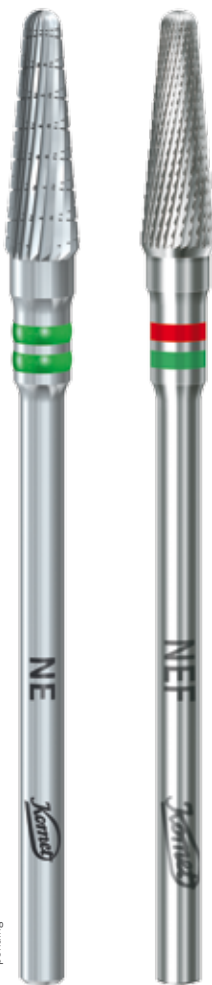




TungstenCarbide Cutters | **NE/NEF**



German patent DE 10 2006 002 722 - European patent EP 1 810 637*
pending

Work on non-precious metal alloys made quick and easy – thanks to efficient special toothings.

Non-precious metal alloys and alloys completely free of precious metals are highly popular in dentistry all over the world. Although their treatment is difficult and often time consuming, these types of alloys are still appreciated thanks to their cost effectiveness and their excellent mechanical properties. For technical reasons, a lot more cast material has to be removed when retouching objects made of such materials than during the rework of precious metal alloys. Consequently, the tools used have to work a lot harder and are more prone to premature wear.

Although modern alloys tend to be softer, they are still hard to cut. The reason for this is that, apart from its hardness, there are a number of other factors that determine how difficult an alloy is to cut. In order to keep extra retouching within limits, it is necessary to use reliable cutters with a long service life that combine minimum wear with maximum substance removal. Komet has come up with a solution: its new, sharp NE toothings for excellent substance removal and NEF toothings for smooth, easy to polish surfaces.

NE toothing

The distinctive appearance of the NE cutters made by Komet is a first indication of their amazing abilities. Thanks to their aggressive toothing with excellent initial sharpness, these cutters allow particularly effective substance removal. This is why NE cutters are used wherever large amounts of substance have to be removed, for example when it comes to removing cast sprues or reducing crowns and metal frames, if required. This allows efficient, time-saving work on non-precious metal alloys and on alloys that do not contain any precious metals at all. If used properly, these cutters feature an extraordinarily long service life even when working on alloys without precious metals. The NE cutters can be recognised by two green rings on their shanks.

1. Rough shape corrections carried out by instrument H79NE.104.040.
2. Work on narrow zones with H138NE.104.023.
3. Treatment of the occlusal surface with tool H77NE.104.023.
4. Roughly shaping narrow frame zones with figure H139NE.104.023.

NE cutters



NEF toothing

The Komet NEF cutters are equipped with a multitude of specially designed, nick-free cutting tips, thus allowing ergonomic, non-tiring work. Thanks to their special construction, these cutters work very smoothly, keeping vibration to a minimum. They are predominantly used when smooth, easy to polish surfaces have to be achieved, for example when working on Cobalt Chrome model cast frames. Despite their gentle ways, these NEF cutters achieve excellent substance removal and have a long service life. This is due to their large number of simultaneously used blades which remove a lot of very fine chips at the same time. An additional advantage of this is that, thanks to their shape, the chips cannot penetrate the skin, which makes working with these hard-to-cut alloys a lot more pleasant. NEF cutters are instantly recognisable by the distinct red/green rings on their shank.

1. Shaping the border line of the palatal bar using H250NEF.104.040.
2. Finishing the plastic transitions by means of instrument H129NEF.104.023.
3. Working on the outer surface of the clamp with H139NEF.104.023.
4. Opening the retention grid with figure H138NEF.104.023.

Recommendations for use:

Optimum speed
 ⚙️_{opt.} 20.000 rpm

NEF cutters

