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Instructions for use
Please read carefully and retain for future reference.

Conseils d'utilisation
A respecter scrupuleusement et garder cette copie
pour une utilisation ultérieure.

Instrucciones de empleo
Leer detenidamente y guardar este ejemplar para
uso más tarde.

H254E – H254LE
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304971 - Rev 09/2015

**CAUTION: U.S. Federal law restricts the device
to sale by or on the order of a licensed dentist.**



REF Order number
Numéro d'ordre
Número de pedido

LOT LOT number
Numéro de lot
Número de lote

Consult instructions for use
Se reporter aux instructions
Observe indicaciones

Packing unit
Unité d'emballage
Unidad de embalaje

Oral surgery
Chirurgie maxillo-faciale
Oral surgery

H254E.FG.012 80,000 rpm
 160,000 rpm

H254LE.FG.012 80,000 rpm
 100,000 rpm

H254E.HP.012 40,000 rpm
 100,000 rpm



Tungsten carbide instrument H254E/H254LE

1. Indication
- Minimally invasive combination instrument for conservative preparation of bone tissue and hard tooth substance
 - Removal of impacted wisdom teeth
 - Apical ectomy
- The instrument is used for tissue-friendly preparation of bone or bone lids which can be repositioned after removal of impacted wisdom teeth or after apical ectomy and for definite removal of surrounding bone tissue. Due to its efficient cutting ability the instrument is also suited for cutting hard tooth substance, in particular for separating tooth roots.
2. Contraindication
- Treatments where the instrument is used as a lever (e.g. for loosening and removing of prepared bone or wisdom teeth)
 - Not suited for cutting root posts
 - Insufficient external cooling (less than 50 ml/min)
3. Proper use
- For removal of impacted wisdom teeth or apical ectomy and for treatment of bone surfaces
- Expose the jaw bone according to the known procedure
 - Prepare the contour of the bone transplant with the combination instrument considering its shape and position or reduce the surrounding bone, applying sufficient external cooling (at least 50 ml/min.). For axial preparation, move the instrument circularly in order to avoid jamming. On one hand the external cooling prevents the bone tissue from being excessively heated and on the other hand it facilitates evacuation and rinsing of bone chips.
 - The preparation is carried out with low contact pressure ($\leq 2\text{N}$) to the required depth. Care should be taken that the cutting surfaces are sufficiently exposed to coolant.
 - Use suction to remove bone chips and lift the loosened bone transplant with tweezers.
 - Separate tooth or root with the combination instrument; with sufficient external coolant, at least 50 ml/min) and remove the fragments, for instance with forceps or tweezers.
 - Treat the wound according to the generally practised procedure and if indicated reposition the bone transplant and close the mucosa.
- Note: The instrument shall not be used as a lever - risk of accident. The H254E.FG/H254LE.FG is designed to be used in the micromotor (red contra-angle) and not in the turbine.
4. Recommendation for maintenance
- The instruments are supplied in non-sterile condition. Therefore instruments have to be disinfected, cleaned and sterilized prior to every use.
- Do not allow residues from the operation (blood, secretions, tissue) to dry
 - Immerse the drills in disinfecting solution immediately after the operation
 - Use brushes with metal or nylon bristles for pre-cleaning.

- Disinfect the drills with disinfecting and cleaning agents for rotary instruments. For recommendations for use (immersion time, concentration, suitability) of the disinfecting and cleaning agents please refer to the instructions provided by the manufacturer of the agents used.

Disinfecting and cleaning agents must be rinsed off thoroughly with water and the instruments must be dried carefully (e.g. by air stream). Do not store instruments for a longer period in wet or humid condition. The drills must not come in contact with each other during the cleaning in the ultrasonic bath. Carry out a visual inspection of the cleaned instruments. Damaged or blunt instruments must be rejected and their use discontinued. The same applies to instruments that were subjected to sudden stress (for example by getting dropped off the table or similar). Do not reuse these instruments, due to increased risk of fracture! Never use the instrument as a lever! Sterilization of the instruments is carried out using the known methods in an autoclave at 134°C, according to USP (U.S. Pharmacopeia). The instructions provided by the device manufacturer have to be observed. After sterilization, check instruments for damage to the surface (increased risk of fracture). The operator of medical products is responsible for ensuring that proper treatment is carried out by qualified personnel using the appropriate materials and suited equipment.

5. Safety and liability

Worn and damaged instruments must be rejected immediately and replaced by new ones. The instructions for handling, cooling and contact pressure have to be strictly observed. The instruments should only be used for the indicated purpose. Non-observance of these safety instructions may lead to damage of the handpiece or injuries. See also "Instructions for use and safety recommendations" in the Komet USA LLC catalog. It is the responsibility of the user to check the products prior to use to ensure that they are suited for the intended purpose. The user is responsible for the application of the instruments. The manufacturer declines any liability for possible damage caused in connection with the use of this instrument.

6. Disclaimer of Warranties

ALL WARRANTIES, WHETHER EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE EXPRESSLY DISCLAIMED. ALL INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, LOST PROFITS, INJURY TO OTHER PROPERTY, LOSS OF USE OR OTHER COMMERCIAL LOSSES, ARE EXPRESSLY DISCLAIMED. If, not withstanding the foregoing, consequential and incidental damages cannot be excluded due to operation of law, such damages are expressly limited in amount to the purchase price of any defective products.

Store out of children's reach.
For dental use only.

The product has been developed solely for use in dentistry. The user is responsible for testing the material for its suitability and use for any purpose not explicitly stated in the instructions. Descriptions and data constitute no warranty of attributes and are not binding.

