KIT 1593
VETERINARY BASIC EXTRACTION CAT FG

HIGH-SPEED PRECISION IN FELINE ORAL SURGERY





CHALLENGES

IN VETERINARY DENTISTRY (CAT)

SPECIFIC CONSIDERATIONS IN FELINE EXODONTICS REQUIRE SPEZIALIZED SOLUTIONS

- **Delicate feline anatomy:**
  Rotary tools with a shortened shank compensate for anatomical tightness by minimizing the space required by the handpiece inside the mouth. This provides an unobstructed view of the surgical field and optimal working space for precise, safe, and tissue-preserving procedures.

- **The destructive process of tooth resorption:**
  Tooth resorption (TR) formerly referred as FORL, is one of the most common indications for tooth extractions in cats. Weakness of the tooth substance and tight or absent periodontal space are particular challenges in feline extractions. This transition is optimally managed by combining two instrument classes. Root preparation and tooth segmentation are performed using carbide burs. The final preparation shifts into the fine-grit diamond burs. This allows an extremely precise bone removal to avoid fractures and to preserve adjacent tooth roots and surrounding soft tissue structures.

OUR SOLUTION: KIT 1593 JOTA VETERINARY BASIC EXTRACTION CAT FG

The **JOTA Kit 1593 Veterinary Basic Extraction Cat FG** translates Swiss manufacturing quality to the high-speed segment. It comes into play where the combination of extreme tissue preservation and time efficiency in the operating room is required.

The technological foundation is formed by FG (Friction Grip) shanks. They guarantee an absolutely centered fixation inside the handpiece head, which imparts exceptional smooth-running characteristics to the instruments even at maximum rotation. This stability allows the veterinarian to control the highly efficient cutting performance of high-speed drives with micrometer precision. This design enables extremely rapid, low-vibration removal of hard tooth substance. The highly efficient substance removal noticeably shortens the treatment duration in the operating room, which in turn significantly reduces anesthesia time for the feline patient.

While the precisely engineered carbide bur geometries allow efficient cutting of tooth structure with minimal pressure, bone preparation follows a different principle. Fine-grit diamond burs enable gentle and controlled bone removal at high rotational speeds of up to 300,000 rpm. Their smooth gliding action minimizes the need for mechanical pressure, helping to reduce localized heat generation and preserve vital bone tissue, thereby supporting favorable conditions for wound healing.

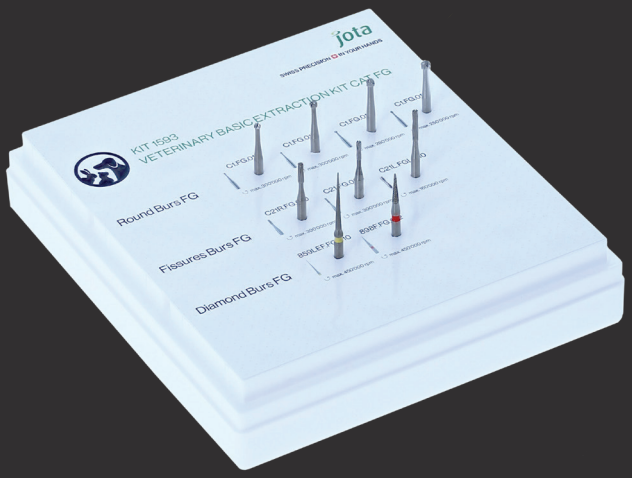
SWISS PRECISION

FOR VETERINARY MEDICINE (CAT)

ANATOMICAL REQUIREMENTS & INSTRUMENT SELECTION:

Minimally Invasive Procedures in CATS
The FG instrumentation accelerates and refines the four essential pillars of feline oral surgery through high cutting efficiency and minimized force exertion:

- **Surgical Tooth Extractions:**
  The carbide round bur (C1.FG) allows minimally invasvie alveolectomies to create a straight access to the tooth root, allowing for the gentle use of luxators.
- **Full-mouth extractions:**
  In feline chronic gingivitis stomatitis (FCGS) full-mouth extraction is a common performed procedure. All tooth roots need to be exposed with a maximal preservation of surrounding bone using carbide round burs (C1.FG) and diamonds (859LEF.FG/898F.FG) for the final preparation and smoothening of sharp alveolar margins to prevent postoperative flap perforation.
- **Crown Amputation:**
  In radiographically confirmed Type 2 Resorptive lesions, horizontal substance reduction below the gingival level is performed extremely quickly and minimal invasive.
- **Tooth sectioning:**
  The rapid, fragment-free separation of multi-rooted premolars and molars using the carbide fissure burs (C21R.FG/C21.FG/C21L.FGL) prevents uncontrolled root damage. There are different sizes and shapes for all anatomic requirements.



CONCLUSION

PRECISE CONTROL WHERE SPACE IS LIMITED

The **JOTA KIT 1593 VETERINARY BASIC CAT FG** was specifically developed for these demanding conditions. Due to their rigid, centered fixation in the handpiece head, its FG shanks offer exceptional smooth-running performance. This mechanical stability allows the veterinarian to precisely control the high cutting performance of a dental turbine without the risk of uncontrolled skidding. Consequently, even high-speed interventions within the delicate feline oral cavity become completely manageable and material-preserving with this kit.

3 STEP SYSTEM

1 ***ALVEOLAR BONE REMOVAL & CROWN AMPUTATION - CARBIDE ROUND BURS***

2 ***TOOTH SEPARATION (MULTIROOTED)***



3 ***EMERGENCY ACCESS ROOT FRAGMENTS***

1 ALVEOLAR BONE REMOVAL & CROWN AMPUTATION

CARBIDE ROUND BURS (ROUND BURS FG)

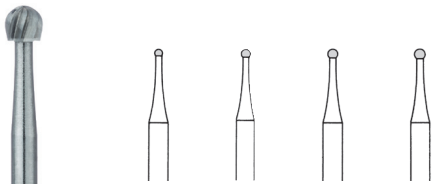
Instruments: Size selection depending on the patient's anatomy

Alveolar Bone Removal (Alveolectomy): Rapid and controlled removal of the surrounding jawbone to expose the tooth root. This efficiently creates the necessary space to safely position a leverage instrument (luxator).

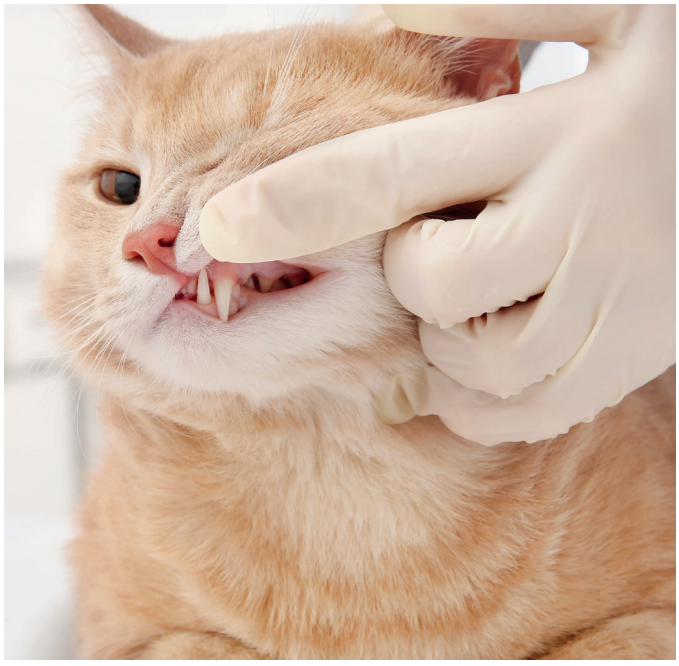
Root Smoothing & Crown Amputation: In Type 2 Resorptive Lesions, where the root is already replaced with the bone (ankylosis), the tooth crown is cleanly amputated. Remaining portions are quickly smoothed using the round burs.

CARBIDE INSTRUMENTS - C1.FG.012 TO C1.FG.018

C1.FG.012 - 018
Carbide burs,
round, FG shank
↻max. 250- 300'000 rpm



Application:
Removal of the buccal alveolar bone using the appropriate round bur.
Crown amputation in patients with Type 2 Resorptive Lesions.



2 ROOT DIVISION (ODONTOTOMY)
CARBIDE FISSURE BURS

Instruments: Size selection depending on the patient's anatomy

Carbide instrument for precise segmentation of Feline molar and premolar multi-rooted teeth. The slender, cylindrical or tapered burs precisely separate the tooth into single-rooted segments beforehand to prevent subsequent root fracture during extraction.
Specialised Geometries: Pointed ends (as with the C21R) or extra-long working parts (as with the C21L) allow deep advancement precisely to the bifurcation (furcation) of the tooth roots without jamming.

C21R.FG.010
Carbide bur, cylindrical, end hemispherical
↻max. 300'000 rpm



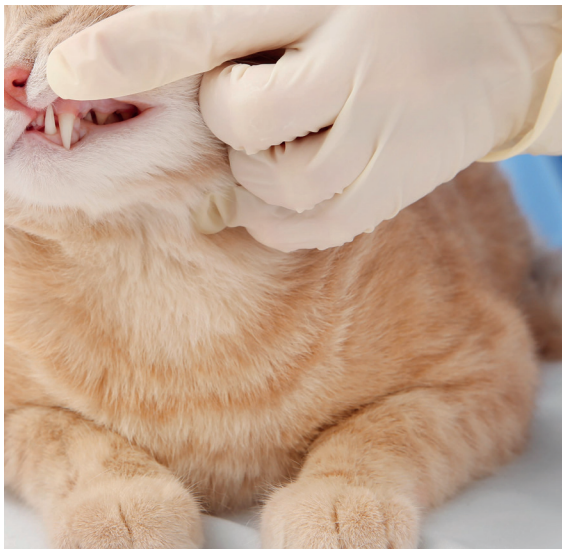
C21L.FGL.010
Carbide bur,
side and end cutting, long
↻max. 250'000 rpm



C21.FG.008
Carbide bur,
side and end cutting
↻max. 280'000 rpm



Application:
Position the fissure bur at the furcation of multi-rooted teeth. Cleanly section the crown through to the interradicular space.



3 EMERGENCY ACCESS (OPTIONAL)
DIAMOND INSTRUMENTS

Instruments: Size selection depending on the patient's anatomy

Fine grit diamonds are useful to achieve access to fractured or remained tooth roots in the depth. The gentle bone removal at high rotational speed and minimal pressure helps to avoid penetration of the nasal cavity and mandibular canal. Axial forces and bending should be avoided to minimize the risk of fractures of the bur.

DIAMONDS INSTRUMENTS - 859LEF.FG.010 AND 898F.FG.014

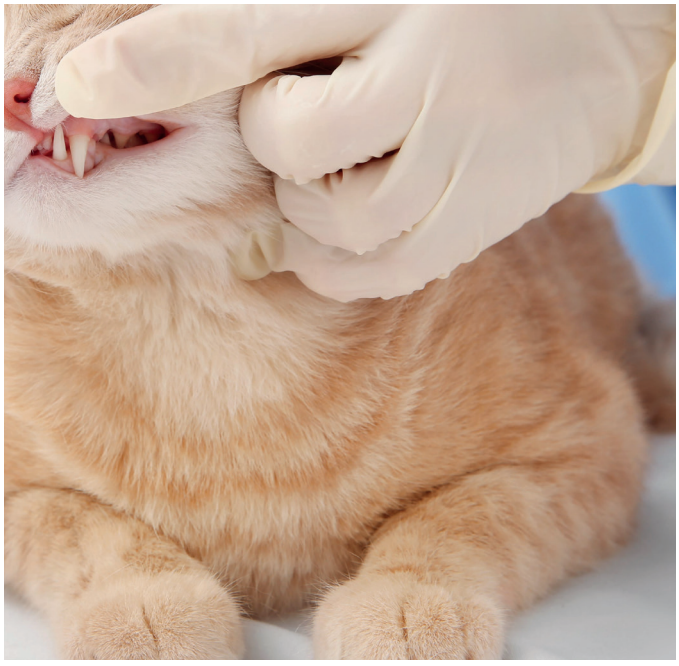
859LEF.FG.010
Diamond bur, grit size extra fine, conical pointed
↻max. 450'000 rpm



898F.FG.014
Diamond bur, grit size fine, conical pointed
↻max. 280'000 rpm



Application:
Application in the high-speed range of up to 300,000 rpm in the turbine for preparation of fragile and fractured tooth roots.



REFILL & ORDER INFORMATION






REFERENCE	500314001001012	500314001001014	500314001001016	500314001001018
MATCHCODE JOTA	C1.FG.012	C1.FG.014	C1.FG.016	C1.FG.018
COVETRUS REF. NO.	209205	209196	209197	209198
DESCRIPTION	Finest exposure of root structures under minimal space conditions	Controlled alveolecto-my and selective bone removal	Universal alveolar bone removal and smoothing during crown amputation	Broad-surface smoothing of fused root portions and preparation of the bone bed





REFERENCE	500314137006010	500314107006008	500315110006010
MATCHCODE	C21R.FG.010	C21.FG.008	C21L.FGL.010
COVETRUS REF. NO.	137006010	209216	500315
DESCRIPTION	Fissure bur with a pointed tip for precisely hitting the furcation	Ultra-thin fissure bur for splinter-free separation of the most delicate feline teeth	Fissure bur with an exten-ded working part for deep advancement in long roots




REFERENCE	806314167504014	806314164514012
MATCHCODE	859LEF.FG.014	898F.FG.012
COVETRUS REF. NO.	806167	806345
DESCRIPTION	High-speed diamond bur (extra fine) for atraumatic tooth root preparation	Ultra-thin fissure bur for contouring alveolar margins and sharp bone edges

YOUR NOTES:





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