

# KMIZ nail drill bits - User Manual and Safety Instruction

## 1. Product Purpose

These nail bits are intended for professional use by manicure and pedicure technicians.

They are designed for coating removal, shape correction, and work on cuticle and skin.

Not a medical device.

## 2. Technical Specifications

Instrument type: diamond and carbide bits.

Shank diameter: 2,35 mm.

Working part material: carbide or diamond-coated.

**Color coding corresponds to the manufacturer's grit/cut designation:**

Black — extra coarse (OK)

Green — coarse (K)

Blue — medium (C)

Red — fine (M)

Yellow — extra fine (OM)

White — ultra fine (UM)

Purple — triple / fine cut (carbide only) (MT)

### 2.1 Maximum rotational speed

010–023 mm: 15 000–40 000 rpm

023–040 mm: 15 000–30 000 rpm

040–070 mm: 15 000–20 000 rpm

Before starting work, the instrument must reach the selected working speed.

During operation, follow the recommended speed range and do not exceed the maximum permissible rotational speed.

### **WARNING**

**For professional use only.**

**Ensure the shank is fully inserted and securely fixed. Fixed shank length — 30 mm;**

**protruding part — not more than 25 mm.**

### **3. Safety Precautions**

Do not use the bit if run-out, vibration, chipping or wear is present.

Avoid overheating the nail plate.

Avoid contact with aggressive chemicals and hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).

Use PPE: goggles / mask / gloves.

### **4. Preparation for Use**

1. Inspect the bit for defects.
2. Perform mandatory processing: disinfection, cleaning, drying and sterilization.
3. Install the bit according to the handpiece instructions.
4. Bring the device to the selected working speed before touching the nail.

### **5. Instrument Processing (after each client)**

#### **5.1. Disinfection**

Use only EU-approved disinfectants for reusable instruments (PT2 under BPR EU No 528/2012).

Fully immerse the nail drill bit; liquid layer above it ≥ 2 cm.

Exposure time strictly per disinfectant IFU.

After exposure, rinse under running water and dry completely.

Prohibited:

- acidic/alkaline solutions and hydrogen peroxide;
- washing under strong jet and/or with metal brushes (aerosol generation).

#### **5.2. Pre-cleaning**

Manual cleaning with soft brushes in the same solution used for disinfection.

Ultrasonic cleaning allowed for 5–6 minutes (no heating).

Metal brushes are prohibited.

After cleaning, rinse the nail drill bit thoroughly and dry.

### 5.3. Drying

Dry in a cabinet at 85 °C or at room temperature until no moisture remains.

The nail drill bit must be fully dry before sterilization.

### 5.4. Sterilization

Steam sterilization (autoclave) — **preferred**:

— (134 +/-1) °C at (0.21 +/-0,01) MPa — 5 min

— (121 +/-1) °C at (0.11 +/-0,01) MPa — 20 min

Dry heat sterilization:

— 180 °C — 60 min

— 160 °C — 150 min

It is **not recommended** to use dry heat sterilizers with vertical instrument loading, where heating occurs from the bottom of the chamber. This can significantly reduce the lifespan of the instrument or cause damage.

Use approved sterilization pouches.

## 6. Storage and Transportation

Storage temperature: +5...+40 °C.

Relative humidity: up to 80% at +25 °C.

Transportation humidity: up to 100% at +25 °C.

## 7. Service Life

Average service life depends on technique, speed, pressure and processing quality.

Shelf life — 5 years.

## 8. Manufacturer

Kazan Medical Instrument Plant (KMIZ)

Russia, Republic of Tatarstan, 420021, Kazan, 12 Salikha Saydasheva St.

## **9. EU Importer**

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