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› Hu-Friedy Miller Bone File Instrument No. 21 (BF21) User Manual

Hu-Friedy BF21

Hu-Friedy Miller Bone File Instrument No. 21 (BF21) User Manual

Model: BF21 | Brand: Hu-Friedy

1. INTRODUCTION

This manual provides essential instructions for the proper use, care, and maintenance of the Hu-Friedy Miller Bone File Instrument No. 21 (BF21). This instrument is designed for professional dental use only. Adherence to these guidelines ensures optimal performance, longevity, and patient safety.

The Hu-Friedy Miller Bone File No. 21 is a specialized hand instrument used in dental surgical procedures, particularly for smoothing and contouring bone surfaces. It features a double-ended design with specific working ends for efficient bone reduction and shaping.

2. SAFETY INFORMATION

- **Professional Use Only:** This instrument is intended for use by qualified dental professionals.
- **Sterilization:** Always sterilize the instrument before initial use and after each subsequent use according to established protocols.
- **Inspection:** Inspect the instrument for damage, corrosion, or wear before each use. Do not use damaged instruments.
- **Sharps Hazard:** Handle with extreme care to prevent accidental injury.
- **Disposal:** Dispose of instruments according to local regulations for medical waste when they reach the end of their service life.

3. SETUP AND PREPARATION

1. **Unpacking:** Carefully remove the instrument from its sterile packaging.
2. **Initial Cleaning:** Although packaged sterile, it is recommended to clean and sterilize the instrument before its first use.

3. **Visual Inspection:** Before sterilization, visually inspect the instrument for any manufacturing defects or shipping damage.



Figure 1: Hu-Friedy Miller Bone File Instrument No. 21 (BF21) in its original sterile packaging. The instrument is made of stainless steel with a textured handle for grip, and features the Hu-Friedy logo and "MADE IN USA CE" markings on the packaging.

4. OPERATING INSTRUCTIONS

The Miller Bone File No. 21 is designed for precise bone contouring and smoothing. Its double-ended configuration allows for versatility in various surgical sites.

- **Grip:** Hold the instrument firmly using a pen grip or palm grip, depending on the required force and control. The textured handle provides enhanced tactile feedback.
- **Application:** Apply gentle, controlled strokes to the bone surface. The serrated edges of the file are designed to remove small amounts of bone efficiently.
- **Direction:** Use a pull stroke for effective bone removal. Avoid pushing directly into the bone, which can cause trauma or instrument damage.
- **Irrigation:** Ensure adequate irrigation during bone filing to prevent overheating and to clear bone debris from the surgical site and instrument.
- **Working Ends:** Utilize the appropriate working end for the specific anatomical area and desired bone contour.

5. MAINTENANCE AND CLEANING

Proper cleaning, disinfection, and sterilization are critical for the longevity of the instrument and to prevent cross-contamination.

5.1. Cleaning

1. **Immediate Rinse:** Immediately after use, rinse the instrument under running water to remove gross debris.
2. **Manual Cleaning:** Use a soft brush and an enzymatic cleaning solution to thoroughly scrub all surfaces, paying close attention to the serrations and working ends.
3. **Ultrasonic Cleaning:** Place the instrument in an ultrasonic cleaner with an appropriate solution for the recommended cycle time.
4. **Rinse:** Rinse thoroughly with distilled or deionized water to remove all cleaning solution residues.
5. **Dry:** Dry the instrument completely using a lint-free cloth or medical-grade air dryer.

5.2. Sterilization

The instrument is designed to withstand standard steam sterilization (autoclaving).

- **Packaging:** Package the cleaned and dried instrument in a sterilization pouch or wrap suitable for autoclaving.
- **Autoclave Parameters:** Follow the manufacturer's instructions for your specific autoclave. Typical parameters for steam sterilization are 132°C (270°F) for 4 minutes or 121°C (250°F) for 15-30 minutes, followed by a drying cycle.
- **Storage:** Store sterilized instruments in a dry, clean environment until use.

5.3. Inspection

Regularly inspect the instrument for:

- **Corrosion:** Any signs of rust or discoloration.
- **Damage:** Bends, cracks, or dullness of the working ends.
- **Wear:** Excessive wear on the serrations that may reduce efficacy.

Replace instruments that show signs of significant wear or damage.

6. TROUBLESHOOTING

As a simple hand instrument, troubleshooting is generally limited to proper care and handling.

Issue	Possible Cause	Solution
Instrument appears dull or ineffective	Normal wear and tear; improper cleaning leaving debris.	Ensure thorough cleaning. If dullness persists due to wear, replace the instrument.
Corrosion (rust spots)	Incomplete drying; exposure to harsh chemicals; improper sterilization.	Review cleaning and sterilization protocols. Ensure instruments are completely dry before sterilization and storage. Replace corroded instruments.
Instrument bent or broken	Excessive force during use; accidental dropping.	Immediately cease use and dispose of the damaged instrument according to medical waste protocols.

7. SPECIFICATIONS

- **Model:** Miller Bone File No. 21 (BF21)
- **Brand:** Hu-Friedy
- **Material:** Medical-grade Stainless Steel
- **Design:** Double-ended
- **Intended Use:** Bone contouring and smoothing in dental surgical procedures.
- **Sterilization:** Autoclavable
- **Origin:** Made in USA (as per packaging)

8. WARRANTY AND SUPPORT

Hu-Friedy instruments are manufactured to the highest quality standards. For specific warranty information, please refer to the official Hu-Friedy website or contact your authorized Hu-Friedy distributor. For technical support, product inquiries, or to report any issues, please contact Hu-Friedy customer service:

- **Manufacturer:** Hu-Friedy Mfg. Co., LLC
- **Address (USA):** 3232 N. Rockwell St., Chicago, IL 60618 USA
- **Website:** www.hu-friedy.com