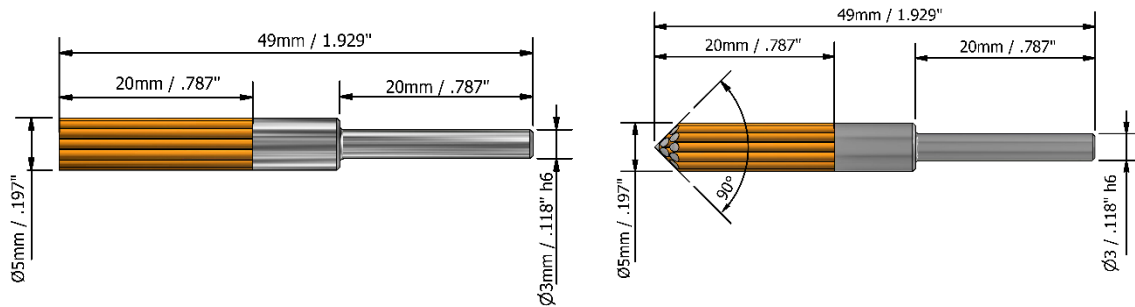


**UFIBER END-BRUSH OPERATION GUIDELINES**



**Speeds Recommendations**

SKU#	Description	Ød mm / Inch	Spindle Speed	
			min.	max.
			min <sup>-1</sup>	
UF4...50	UF-EB-...-D5-L20	5	-	12000
UF6...50	UF-EB45-...-D5-L20	/0.197"	-	12000

**Grit Options for Machining Requirements**



### **Installation & Usage:**

- **Shank Grip:** Ensure that the shank is gripped by at least 20 mm to avoid detachment due to vibrations, which could lead to serious injury.
- **Chuck Matching:** Use a chuck that matches the diameter of the shank.
- **Tool Compatibility:** The brush is designed for use with hand-held rotary tools and CNC machines. It can handle precise finishing tasks in tight or recessed areas where traditional brushes may not perform as well.

### **End-Brush Key Features:**

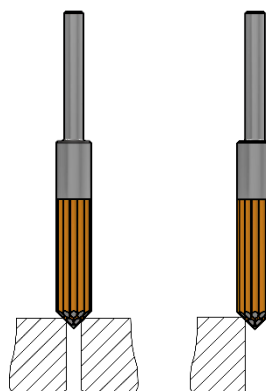
- **Ease of Operation:** Well-suited for both manual and automated processes, including use with CNC machines and robotic arms, thanks to its straightforward application.
- **Durability:** The brush has high bending strength and can operate at up to 12,000 RPM without risking filament breakage.
- **Versatile Usage:** Suitable for smoothing outer edges, planar surfaces, and broader geometries.
- **Tip Adjustment:** The brush tip can be angled using a diamond disk on a lathe or spindle.

### **Key Features of Flat Edge:**

- **Surface-Level Efficiency:** Designed for uniform deburring and finishing of flat surfaces and large areas.
- **Wide Contact Area:** The flat edge ensures consistent and even surface treatment.
- **Versatile Usage:** Suitable for smoothing outer edges, planar surfaces, and broader geometries.

### **Key Features of Tipped Edge:**

- **Angled Design:** Allows for easy access to confined spaces and hard-to-reach areas.
- **Enhanced Control:** The pointed edge provides better control for selective deburring tasks.
- **Versatility:** Suitable for deburring geometries with complex shapes and sharp angles.
- For examples:



### **End-Brush Safety Precautions:**

- The brush is not recommended for use with pneumatic-powered tools due to safety concerns.
- Operators must wear appropriate personal protective equipment (PPE), including goggles, masks, gloves, and hearing protection.
- Speed limits should be strictly followed to avoid overheating, detachment, or bristle breakage.

### **IMPORTANT SAFETY INSTRUCTIONS**

- Using the product in ways not specified in the guidelines may result in serious injuries or fatalities.
- **Eye and skin protection** is essential as particles, debris, or burrs generated during processing can cause severe injuries.
- Stop using the brush if you detect any **vibration or unusual occurrences**. Continuing under such conditions increases the risk of tool detachment or workpiece damage.
- **Overheating risk:** Prolonged machining at a constant point can cause overheating, increasing the risk of bristle detachment or breakage. Operators should **avoid direct contact** with the machined area after use to prevent burns.

### **Fire and Work Area Safety:**

- The tool may generate **heat or sparks**, so avoid using it near flammable liquids or explosive atmospheres.
- Ensure the work area is clean, and **barriers are in place** to prevent unauthorized personnel from entering. Everyone in the area should wear protective gear.

### **Handling of Cutting Particles:**

- Use a **dust collection system** to capture the fragments and debris generated during processing.