NOGA MT
MACHINE TOOLS

The **NOGAMT** FLOATING DAMPER SERIES UF-FD-DS... END-TYPE

PRODUCT DESCRIPTION

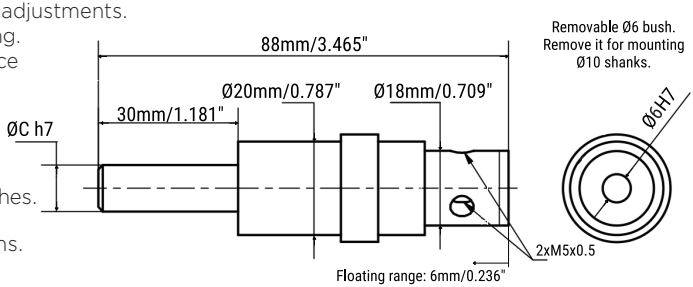
The Floating Damper is designed to compensate for surface irregularities and bristle wear during operation. Its internal spring mechanism applies a controlled and consistent force, ensuring stable contact between the tool and workpiece for reliable, consistent deburring and polishing results.

KEY ADVANTAGES

- Minimizes the need for precise depth adjustments.
- Improves consistency of edge finishing.
- Reduces tool wear and extends service life.
- Eliminates programming adjustments to compensate for bristle wear.

TYPICAL APPLICATIONS

- Surface finishing using **UFIBER** brushes.
- Automated deburring and polishing operations on CNC or robotic systems.



SPECIFICATIONS

PARAMETER	VALUE
Interface	UF-FD-DS . . . END-TYPE
Max Speed	12,000 rpm
Tool Shank Diameter ØC	**UF8851** Ø6 (0.236") / **UF8852** Ø10 (0.394")
Floating Range	6 mm (0.236")
Spring Pressure	Approx. 20 N
Balance	High-speed balanced
SPARE PARTS	**UF0022** Socket Allen Key 4 mm
	UF0024-Clamping Screws – 2 x M5 x 5 x 0.5

Recycle paper for a better world

22 PAP

Note: Design and specifications may be changed without prior notice for product improvement.

PRECAUTIONS FOR USE

- Tighten all screws before use
- Fully insert shank into chuck
- Wear PPE (goggles, gloves, hearing protection)
- Use correct chuck size and controlled RPM machines
- Improper clamping may cause vibration or tool detachment
- Do not use through-spindle coolant
- Check floating function before use (especially on horizontal machines)
- Use dust extraction to protect machine and operator
- Stop immediately if vibration or abnormal noise occurs
- Do not exceed max RPM, depth of cut, or brush projection
- Improper use may cause injury or equipment damage
- Always verify tool condition and setup before operation

NOGA MT
MACHINE TOOLS

The **NOGAMT** FLOATING DAMPER SERIES UF-FD-DS... END-TYPE

OPERATING INSTRUCTIONS

OPERATION MODES	1. POSITION	2. PRELOAD	3. FEED	4. STOP	5. RETRACT
STANDARD FIGURE A	Approach the tool without rotation.	**Compress spring and set depth	Feed with rotation	Stop rotation & feed	Retract upward vertically
*RAMPING FIGURE B	Arc entry with rotation	**Compress spring & set depth (before feed)	Feed with rotation	———	Arc exit with rotation

*Ramping provides smoother engagement, reducing tool marks and improving surface finish quality.
**Max depth for compressing is 6 mm (0.236").



FIGURE A

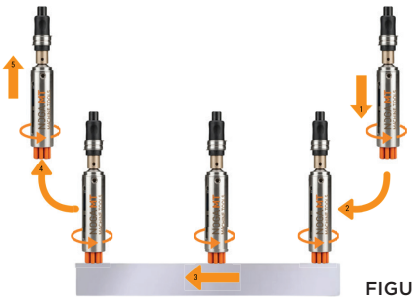


FIGURE B

USAGE GUIDELINES

- Approach the brush vertically and engage it with the workpiece. Avoid side contact, as it can damage the bristles. Figure C.
- Do not let the tool drop into pockets or contact protruding features. Figure D.
- Ensure the floating mechanism can move freely at all times.
- Prevent lateral (side) loading on the brush or tool.

PRACTICAL RECOMMENDATIONS

- Apply preload before starting the cutting process.
- Maintain consistent spring engagement throughout machining.
- Proper setup improves both entry and exit surface quality.
- Stable operating conditions help achieve longer tool life and repeatable results.



Side approach with proper alignment
FIGURE C



Do not allow the tool to drop onto pockets
FIGURE D



Avoid contact with protruding features
FIGURE D

www.nogamt.com

UF0031/B