

ULTIMATE **UFIBER!** BRUSHES

ADVANCED CERAMIC BRUSHES



NOGA MT is excited to introduce the new **UFIBER** Brush, a line of advanced ceramic fiber brushes designed to meet the highest standards of precision and durability in surface treatment applications.

ULTIMATE **UFIBER!** BRUSHES

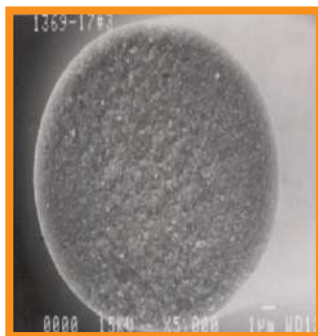
ADVANCED CERAMIC BRUSHES FOR PRECISION AND DURABILITY IN SURFACE TREATMENT

NOGA MT's **UFIBER** brushes are revolutionizing surface treatment with nano-technology precision. These advanced ceramic brushes deliver unparalleled performance, durability, and efficiency for various industrial applications, offering a comprehensive solution for deburring, polishing and finishing tasks.

MAIN BENEFITS

NANO-TECHNOLOGY PRECISION

- Superior surface roughness control.
- Enhanced wear resistance for extended tool life.
- Reduced production costs through fewer tool changes.



NOGA NANO TECHNOLOGY

**UNMATCHED
PRECISION**

**CUTTING-EDGE
TECHNOLOGY**

**SUPERIOR
PERFORMANCE**



COMPETITORS

**LIMITED
PRECISION**

**OUTDATED
TECHNOLOGY**

**LOWER
DURABILITY**

3-IN-1 FUNCTIONALITY

- Combines deburring, polishing, and finishing in one tool.
- Streamlines operations by reducing tool inventory needs.

AUTOMATION READY

- Seamless integration with CNC machines and robotic arms.
- Enables advanced manufacturing with minimal manual intervention.

WIDE GRIT RANGE

- **UFIBER** bristles are available in 10 different grits ranging from #150 to #6000, providing flexibility to handle various work materials and burr conditions.

UFIBER

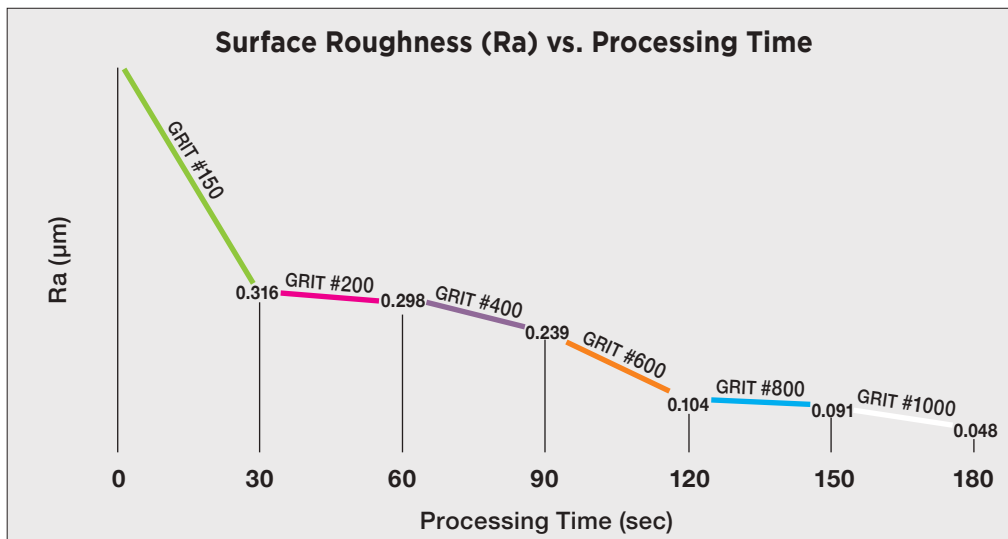
GRIT OPTIONS



Wide Grit Range **UFIBER** bristles are available in grits ranging from #150 to #6000, providing flexibility to handle various work materials and burr conditions.

ENHANCED SURFACE FINISHING:

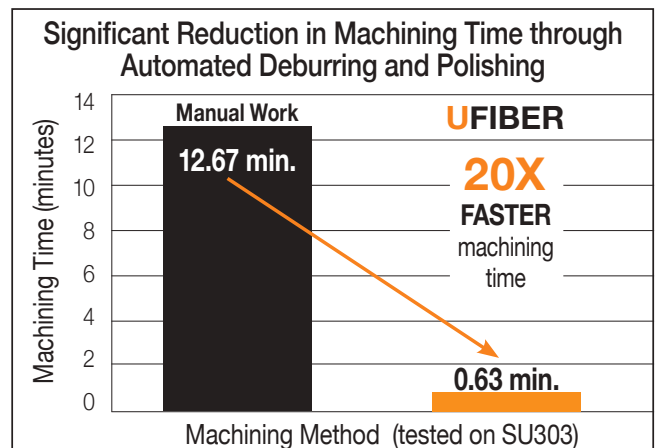
Achieves significantly smoother finishes even on tough materials like hardened steels and composites.



- Material: SAE 1050 / S50C / Wnr. 1.1206
- Rotational speed: 3200 rpm

TIME EFFICIENCY:

UFIBER brushes achieve a 20 X faster machining time compared to manual work (defined as any operation performed by hand without automation) delivering unparalleled efficiency and productivity in automated deburring and polishing.



UFIBER

ADDITIONAL FEATURES

VERSATILE APPLICATIONS:

- Compatible with machining centers, lathe machines, drilling machines, robots and hand micromotor devices.

SELF-SHARPENING EDGES:

- Enables consistent grinding performance throughout the tool's life span.

POWERFUL AND DURABLE:

- Strong grinding properties with cutting edges that remain intact for a longer life span.

EXCELLENT SURFACE FINISHES:

- Achieves precise deburring and smooth finishes effortlessly.

COMBINED OPERATIONS:

- Performs deburring and surface finishing in a single operation.

LONG SERVICE LIFE:

- Maximizes productivity and minimizes costs with extended durability.

EASY MAINTENANCE:

- The brushes can be ground or cut to renew their cutting edge.

COMPARATIVE ANALYSIS

FEATURE	UFIBER by NOGAMT	COMPETITOR X
MATERIAL TECHNOLOGY	Latest Nano-technology ceramic fibers	Micro-technology ceramic fibers
GRIT RANGE	10 different grit sizes ranges from #150 to #6000	Limited to standard industrial grits
PERFORMANCE	20% faster processing time	Consistent edge retention
DURABILITY	High resistance to wear and deformation	Moderate durability
MATERIAL SUITABILITY	All materials including composites	Metals and selected alloys
TOOL LIFE	High tool-life Due to higher Material Suitability	Lower tool-life Due to lower Material Suitability

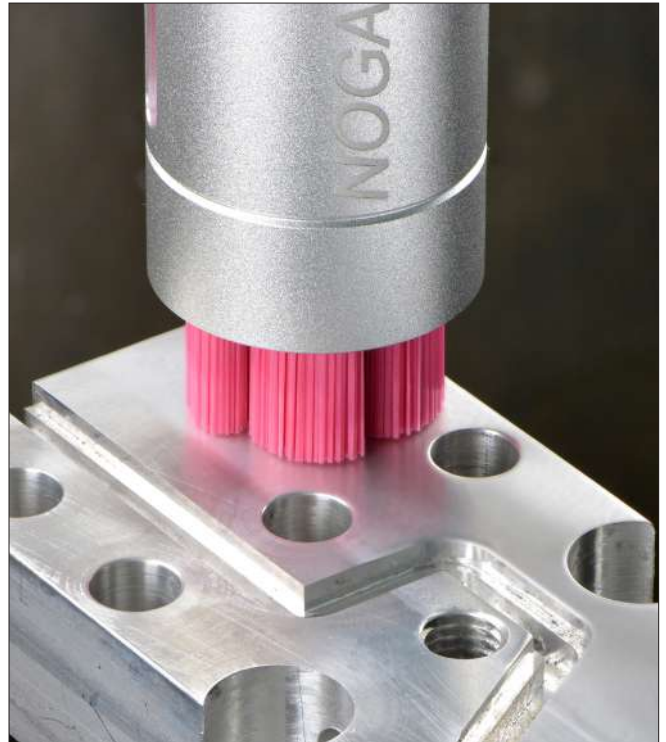
UFIBER

APPLICATIONS & PRODUCT RANGE

CROSS-HOLE BRUSH



SURFACE BRUSH



POINT BRUSH



END BRUSH



UFIBER

INDUSTRY APPLICATIONS



AEROSPACE

Ensures compliance with strict safety and performance standards for aircraft components.

AUTOMOTIVE

Deburs and polishes engine and transmission parts with precision.



MEDICAL DEVICES

Provides smooth finishes for surgical instruments and implants.

GENERAL MANUFACTURING

Versatile for metalworking, plastics and composites.



UFIBER

CROSS-HOLE BRUSHES

Designed for inner diameter polishing and cross-hole burr removal. The brush expands due to centrifugal forces, allowing it to conform precisely to the pilot hole diameter, making it versatile for various applications.

- Available Range: **Ø1.5, 3.0, 5.0, 7.0 mm / 0.059, 0.118, 0.197, 0.276"**
and 10 grit sizes for each diameter.
- Expansion Range: **Ø3.5-20mm / 0.138-0.787"**



SURFACE BRUSHES

Designed for surface polishing and deburring, ideal for achieving uniform finishes on flat surfaces. Tip-cutting brushes are designed to fit into a sleeve with the tool shank, making them ideal for automated deburring in CNC machines, robots and other equipment.

The surface brush can also function as a cross-hole brush, leveraging centrifugal force during rotation to expand and efficiently remove fine burrs from the inner surfaces of cylinders.



UF1625 / UF-FB-W-D025-L75 at 5000 rpm UF1725 / UF-FB-R-D025-L75 at 5000 rpm

- Available Range: **Ø6, 15, 25, 40, 60, 100 mm / 0.236, 0.590, 0.984, 1.575, 2.362, 3.937"**
and 10 grit sizes for each diameter.

UFIBER

POINT BRUSHES

Suitable for precision work in small or complex geometrical areas. Ideal for removing cutter marks, polishing, and finishing parts with small or narrow geometrical features. Suitable for use in CNC machines, robots or hand-held rotary tools.

- Available Range: **Ø1.0, 1.5, 2.0, 2.5, 3.0 mm / 0.039, 0.059, 0.079, 0.098, 0.118"** and 10 grit sizes for each diameter.



END BRUSHES

Designed for use with hand-held rotary tools and CNC machines, making it ideal for precise finishing tasks, especially in tight or recessed areas where traditional brushes may fall short. This brush features high bending strength and can operate at max. 12000 RPM without the risk of filament breakage.

- Available Range: **Ø5mm / 0.197" - flat surface or 90° angled** and 10 grit sizes for each diameter



FLAT DESIGN

FLAT DESIGN: Designed for uniform deburring and finishing of flat surfaces and large areas.

WIDE CONTACT AREA: The flat edge ensures consistent and even surface treatment.

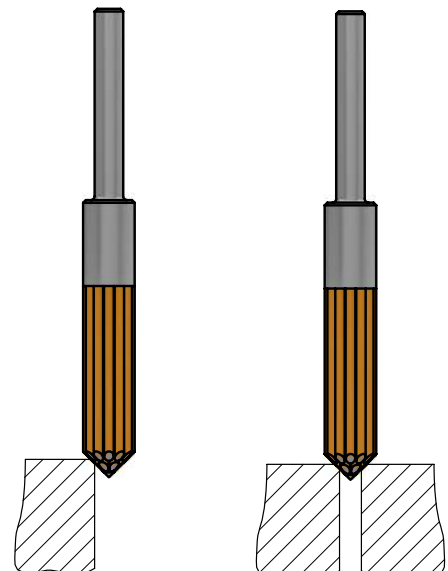
VERSATILE USAGE: Suitable for smoothing outer edges, planar surfaces and broader geometries.

ANGLED DESIGN

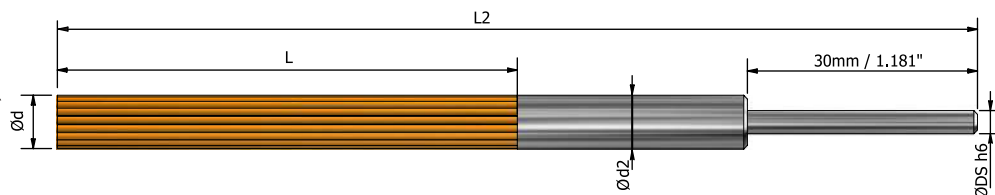
ANGLED DESIGN: Allows for easy access to tight spaces and hard-to-reach areas.

ENHANCED CONTROL: The pointed edge provides better control for selective deburring tasks.

VERSATILITY: Suitable for deburring geometries with complex shapes and sharp angles.



UFIBER

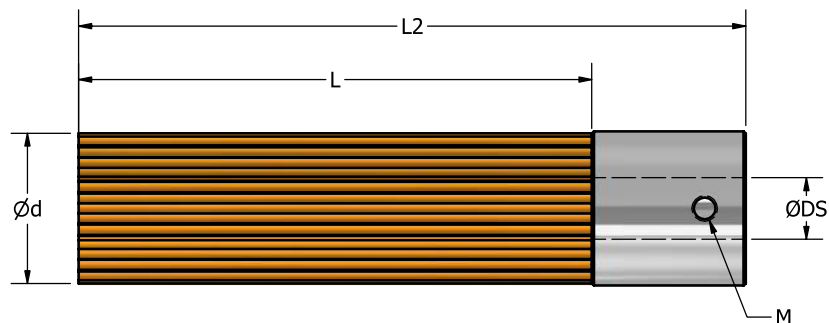


CROSS-HOLE BRUSH

SKU	DESCRIPTION	GRIT SIZE	Ø d mm / inch	L mm / inch	Ø d2 mm / inch	L2 mm / inch	Ø DS mm / Inch	Wt. gram	MAX. RPM	SUITABLE PILOT-HOLE DIA.	
										GRIT #150-#1000 mm / Inch	GRIT #1200-#6000 mm / Inch
UF2115	UF-CH-G-D015-L50	150	Ø1.5 / 0.059	50 / 1.969	Ø2.5 / 0.098	120 / 4.724	Ø3 / 0.118	3	20000	3.5 - 5 / 0.138 - 0.197	3.5 - 5 / 0.138 - 0.197
UF2215	UF-CH-P-D015-L50	200									
UF2315	UF-CH-V-D015-L50	400									
UF2415	UF-CH-O-D015-L50	600									
UF2515	UF-CH-B-D015-L50	800									
UF2615	UF-CH-W-D015-L50	1000									
UF2715	UF-CH-R-D015-L50	1200									
UF2815	UF-CH-M-D015-L50	2000									
UF2915	UF-CH-Z-D015-L50	3000									
UF2015	UF-CH-A-D015-L50	6000									
UF2130	UF-CH-G-D030-L60	150	Ø3 / 0.118	60 / 2.362	Ø4 / 0.158	130 / 5.118	Ø3 / 0.118	6	14000	5 - 7 / 0.197 - 0.276	
UF2230	UF-CH-P-D030-L60	200									
UF2330	UF-CH-V-D030-L60	400									
UF2430	UF-CH-O-D030-L60	600									
UF2530	UF-CH-B-D030-L60	800									
UF2630	UF-CH-W-D030-L60	1000									
UF2730	UF-CH-R-D030-L50	1200		50 / 1.969		120 / 4.724					5 - 7 / 0.197 - 0.276
UF2830	UF-CH-M-D030-L50	2000									
UF2930	UF-CH-Z-D030-L50	3000									
UF2030	UF-CH-A-D030-L50	6000									
UF2150	UF-CH-G-D050-L60	150	Ø5 / 0.197	60 / 2.362	Ø6 / 0.276	130 / 5.118	Ø6 / 0.236	17	14000	7 - 9 / 0.276 - 0.354	
UF2250	UF-CH-P-D050-L60	200									
UF2350	UF-CH-V-D050-L60	400									
UF2450	UF-CH-O-D050-L60	600									
UF2550	UF-CH-B-D050-L60	800									
UF2650	UF-CH-W-D050-L60	1000									
UF2750	UF-CH-R-D050-L50	1200		50 / 1.969		120 / 4.724					8 - 10 / 0.315 - 0.394
UF2850	UF-CH-M-D050-L50	2000									
UF2950	UF-CH-Z-D050-L50	3000									
UF2050	UF-CH-A-D050-L50	6000									
UF2170	UF-CH-G-D070-L60	150	Ø7 / 0.276	60 / 2.362	Ø8 / 0.315	130 / 5.118	Ø6 / 0.236	24	14000	9 - 14 / 0.354-0.551	
UF2270	UF-CH-P-D070-L60	200									
UF2370	UF-CH-V-D070-L60	400									
UF2470	UF-CH-O-D070-L60	600									
UF2570	UF-CH-B-D070-L60	800									
UF2670	UF-CH-W-D070-L60	1000									
UF2770	UF-CH-R-D070-L50	1200		50 / 1.969		120 / 4.724					10 - 20 / 0.394 - 0.787
UF2870	UF-CH-M-D070-L50	2000									
UF2970	UF-CH-Z-D070-L50	3000									
UF2070	UF-CH-A-D070-L50	6000									

UFIBER

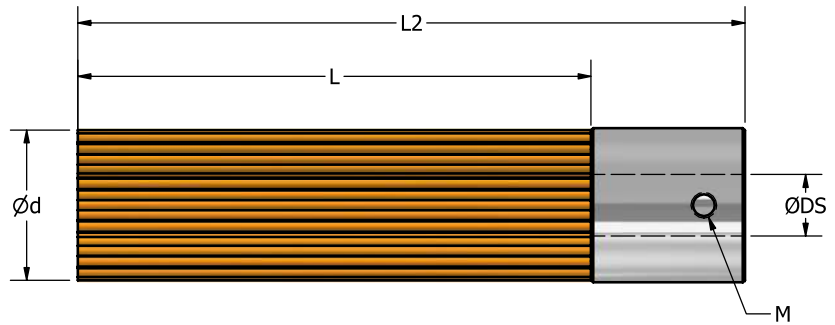
SURFACE BRUSH



SKU	DESCRIPTION	GRIT SIZE	Ø d mm / inch	L mm / inch	L2 mm / inch	Ø DS mm / inch	SPARE PARTS ⁽¹⁾ (for M)				Wt. gram
							CLAMPING SCREW M x P x L (mm)	SKU	LN KEY L (mm)	SKU	
UF1106	UF-FB-G-D006-L30	150	Ø6 / 0.236	30 / 1.181	42.5 / 1.673	N/A	N/A	N/A	N/A	N/A	3
UF1206	UF-FB-P-D006-L30	200									
UF1306	UF-FB-V-D006-L30	400									
UF1406	UF-FB-O-D006-L30	600									
UF1506	UF-FB-B-D006-L30	800									
UF1606	UF-FB-W-D006-L30	1000									
UF1706	UF-FB-R-D006-L30	1200									
UF1806	UF-FB-M-D006-L30	2000									
UF1906	UF-FB-Z-D006-L30	3000									
UF1006	UF-FB-A-D006-L30	6000									
UF1115	UF-FB-G-D015-L50	150	Ø15 / 0.590	50 / 1.969	65 / 2.560	Ø6 / 0.236	M3 x 0.5 x 4	UF0019	1.5	DH0005	7
UF1215	UF-FB-P-D015-L50	200									
UF1315	UF-FB-V-D015-L50	400									
UF1415	UF-FB-O-D015-L50	600									
UF1515	UF-FB-B-D015-L50	800									
UF1615	UF-FB-W-D015-L50	1000									
UF1715	UF-FB-R-D015-L50	1200									
UF1815	UF-FB-M-D015-L50	2000									
UF1915	UF-FB-Z-D015-L50	3000									
UF1015	UF-FB-A-D015-L50	6000									
UF1125	UF-FB-G-D025-L75	150	Ø25 / 0.984	75 / 2.952	100 / 3.937	Ø9 / 0.354	M4 x 0.7 x 8	UF0018	2	UF0020	21
UF1225	UF-FB-P-D025-L75	200									
UF1325	UF-FB-V-D025-L75	400									
UF1425	UF-FB-O-D025-L75	600									
UF1525	UF-FB-B-D025-L75	800									
UF1625	UF-FB-W-D025-L75	1000									
UF1725	UF-FB-R-D025-L75	1200									
UF1825	UF-FB-M-D025-L75	2000									
UF1925	UF-FB-Z-D025-L75	3000									
UF1025	UF-FB-A-D025-L75	6000									
UF1140	UF-FB-G-D040-L75	150	Ø40 / 1.575	75 / 2.952	96 / 3.780	Ø12 / 0.472	M6 x 1.0 x 8	PC0044	3	DB0007	26
UF1240	UF-FB-P-D040-L75	200									
UF1340	UF-FB-V-D040-L75	400									
UF1440	UF-FB-O-D040-L75	600									
UF1540	UF-FB-B-D040-L75	800									
UF1640	UF-FB-W-D040-L75	1000									
UF1740	UF-FB-R-D040-L75	1200									
UF1840	UF-FB-M-D040-L75	2000									
UF1940	UF-FB-Z-D040-L75	3000									
UF1040	UF-FB-A-D040-L75	6000									

UFIBER

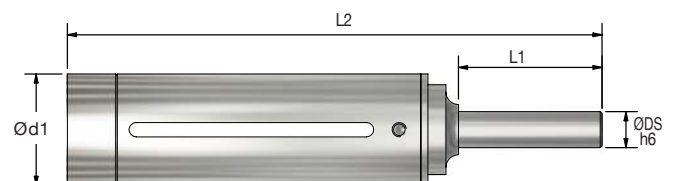
SURFACE BRUSH



SKU	DESCRIPTION	GRIT SIZE	Ø d mm / inch	L mm / inch	L2 mm / inch	Ø DS mm / inch	SPARE PARTS ⁽¹⁾ (for M)				Wt. gram
							CLAMPING SCREW M x P x L (mm)	SKU	LN KEY L (mm)	SKU	
UF1160	UF-FB-G-D060-L75	150	Ø60 / 2.362	75 / 2.952	96 / 3.780	Ø13 / 0.512	M6 x 1.0 x 20	UF0016	3	DB0007	70
UF1260	UF-FB-P-D060-L75	200									
UF1360	UF-FB-V-D060-L75	400									
UF1460	UF-FB-O-D060-L75	600									
UF1560	UF-FB-B-D060-L75	800									
UF1660	UF-FB-W-D060-L75	1000									
UF1760	UF-FB-R-D060-L75	1200									
UF1860	UF-FB-M-D060-L75	2000									
UF1960	UF-FB-Z-D060-L75	3000									
UF1060	UF-FB-A-D060-L75	6000									
UF1100	UF-FB-G-D100-L75	150	Ø100 / 3.937	75 / 2.952	97 / 3.820	Ø16 / 0.630	M6 x 1.0 x 25	UF0015	3	DB0007	140
UF1200	UF-FB-P-D100-L75	200									
UF1300	UF-FB-V-D100-L75	400									
UF1400	UF-FB-O-D100-L75	600									
UF1500	UF-FB-B-D100-L75	800									
UF1600	UF-FB-W-D100-L75	1000									
UF1700	UF-FB-R-D100-L75	1200									
UF1800	UF-FB-M-D100-L75	2000									
UF1900	UF-FB-Z-D100-L75	3000									
UF1000	UF-FB-A-D100-L75	6000									

(1) The surface brush comes with 2 set-screws for mounting a shaft.
For more details, see "Versatile Surface Brush for Efficient
Cross-Hole Burr Removal" page 14.

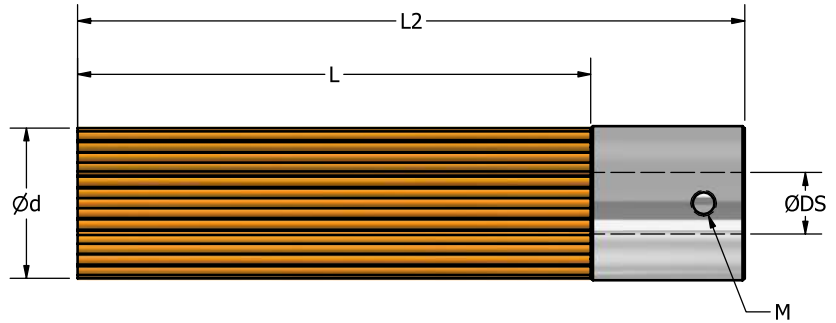
SURFACE BRUSH SLEEVE



SKU	DESCRIPTION	SUITABLE FOR SURFACE BRUSH	Ø d1 (external) mm / Inch	L1 mm / inch	L2 mm / inch	Ø DS mm / Inch	Wt. gram	SPARE PARTS (for M)			
								CLAMPING SCREW MxPxL (mm)	SKU	LN KEY L (mm)	SKU
UF5506	UF-FS-6-C06-L70	Ø 6/0.236	Ø 10/0.394	30/1.181	71/2.795	Ø 6/0.236	30	M3 x 0.5 x 4	UF0010	2.5	UF0021
UF5515	UF-FS-15-C06-L90	Ø 15/0.590	Ø 18.5/0.728	30/1.181	92/3.622	Ø 6/0.236	40	M3 x 0.5 x 6	UF0011	2	UF0020
UF5525	UF-FS-25-C10-L140	Ø 25/0.984	Ø 30/1.181	30/1.181	149/5.866	Ø 10/0.394	160	M4 x 0.7 x 10	UF0012	2.5	UF0021
UF5540	UF-FS-40-C12-L140	Ø 40/1.575	Ø 45/1.772	30/1.181	135/5.315	Ø 12/0.472	200	M6 x 1.0 x 10	UF0013	4	UF0022
UF5560	UF-FS-60-C12-L145	Ø 60/2.362	Ø 67/2.638	40/1.575	145/5.708	Ø 12/0.472	320	M6 x 1.0 x 10	UF0013	4	UF0022
UF5500	UF-FS-100-C16-L155	Ø 100/3.937	Ø 110/4.330	40/1.575	155/6.102	Ø 16/0.630	670	M8 x 1.25 x 16	UF0014	5	UF0023

UFIBER

SURFACE BRUSH SPEEDS AND FEEDS

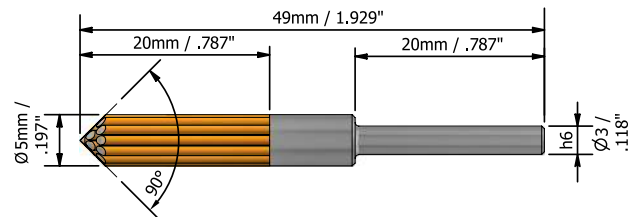
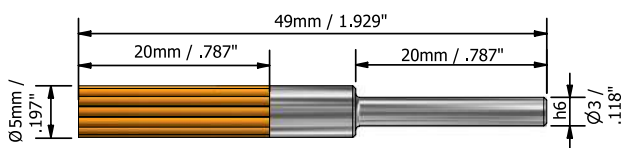


SUITABLE FOR SURFACE BRUSH mm/inch	ØDS mm/inch	L mm/inch	L2 mm/inch	DEPTH OF CUT (DOC)			REC. R.P.M.	FEED (max.) mm/min. inch/min.	BRUSH PROJECTION ⁽¹⁾ (max.) mm/inch
				POLISHING mm / Inch	DEBURRING mm / Inch	MAX. mm / Inch			
Ø 6/0.236	NA	30/1.181	42.5/1.673	0.2/0.008	0.5/0.02	1.2/0.05	9000-12000	2000/79	10/0.394
Ø 15/0.590	Ø 6/0.236	50/1.969	65/2.559				5700-7200		
Ø 25/0.984	Ø 9/0.354	75/2.952	100/3.937				5000-6000		
Ø 40/1.575	Ø 12/0.472	75/2.952	96/3.780				2700-3600		
Ø 60/2.362	Ø 13/0.512	75/2.952	96/3.780				1800-2400		
Ø 100/3.937	Ø 16/0.630	75/2.952	97/3.820				1000-1400		

⁽¹⁾When mounted with corresponding sleeve

UFIBER

END BRUSH



FLAT END BRUSH				
SKU	DESCRIPTION	GRIT SIZE	Wt. gram	MAX. RPM ⁽¹⁾
UF4150	UF-EB-G-D5-L20	150	3	12000
UF4250	UF-EB-P-D5-L20	200		
UF4350	UF-EB-V-D5-L20	400		
UF4450	UF-EB-O-D5-L20	600		
UF4550	UF-EB-B-D5-L20	800		
UF4650	UF-EB-W-D5-L20	1000		
UF4750	UF-EB-R-D5-L20	1200		
UF4850	UF-EB-M-D5-L20	2000		
UF4950	UF-EB-Z-D5-L20	3000		
UF4050	UF-EB-A-D5-L20	6000		

90° ANGLED END BRUSH				
SKU	DESCRIPTION	GRIT SIZE	Wt. gram	MAX. RPM ⁽¹⁾
UF6150	UF-EB45-G-D5-L20	150	3	12000
UF6250	UF-EB45-P-D5-L20	200		
UF6350	UF-EB45-V-D5-L20	400		
UF6450	UF-EB45-O-D5-L20	600		
UF6550	UF-EB45-B-D5-L20	800		
UF6650	UF-EB45-W-D5-L20	1000		
UF6750	UF-EB45-R-D5-L20	1200		
UF6850	UF-EB45-M-D5-L20	2000		
UF6950	UF-EB45-Z-D5-L20	3000		
UF6050	UF-EB45-A-D5-L20	6000		

⁽¹⁾The brush bristles will maintain their original shape at maximum RPM.