

Secret of Performance

Unparalleled "XEBEC Ceramic Fiber Tools"

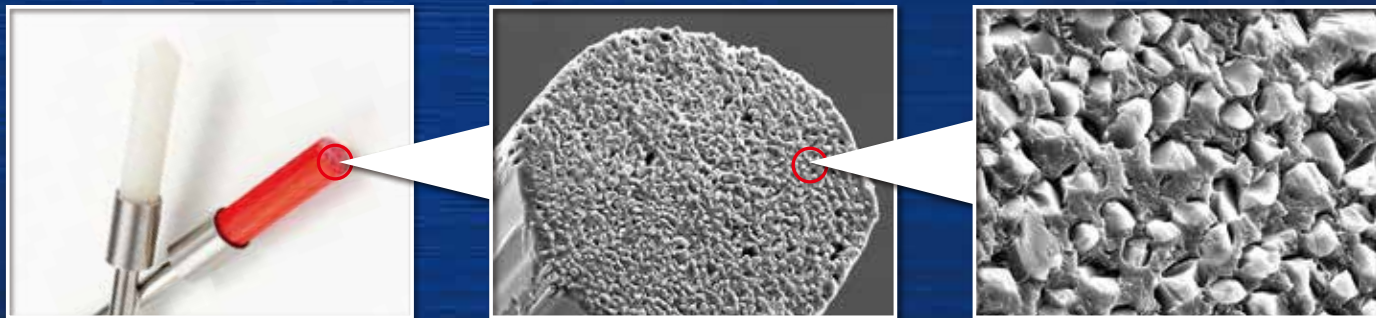
There are secrets to the unmatched material.

Each brush bristles, stone heads, and ceramic stones are made by binding 1,000 ceramic fibers, each a few dozen microns in diameter.

The tips of each of these micro fibers perform as continuous cutting edges, and these solid ceramic fibers promise stable and consistent grinding performance.



[brush bristle]



Amazing Aspects

1 Fine Edge Quality

- Fine edges, no scratches or no damage to periphery.
- Assures fine finishing by hand work.

2 Surface Roughness Ra=0.1µm

- Achieves polishing performance of Ra = 0.1µm or better, suitable for use in mold polishing processes.
- XEBEC Brush™ is optimal for adapting to the shape of curved parts.

3 Easy to change the shape

- Ideal for point processing because the tool tip can be formed to fit the workpiece.
- Narrow crevices and corners can be processed.



Product lineup

XEBEC Brush™ End type					
Product code	Ceramic fiber rod (color)	Brush diameter	Ceramic fiber rod length	Shank diameter	Maximum rotation speed
A11-EB06M	Red	φ 5mm	20mm	φ 3mm	12,000min ⁻¹
A21-EB06M	White	φ 5mm	20mm	φ 3mm	

XEBEC Brush™ Crosshole							
Product code	Target bore diameter of brush insert	Full length	Brush diameter	Ceramic fiber rod length	Shaft diameter	Shank diameter	Maximum rotation speed
CH-A12-1.5M	φ 3.5~5mm	120mm	φ 1.5mm	50mm	φ 2.5mm	φ 3mm	20,000min ⁻¹
CH-A12-3M	φ 5~8mm		φ 3mm	50mm	φ 4mm	φ 3mm	12,000min ⁻¹
CH-A33-3M			130mm	φ 3mm	60mm	φ 4mm	φ 3mm

XEBEC Stone™ Flexible Shaft					
Product code	Product code	Product code	Head size	Head shape	Maximum rotation speed
Blue #800	Orange #400	Gray #220			
CHPB-3B	CHPO-3B	CHPM-3B	φ 3mm	Ball	15,000min ⁻¹
CHPB-3R	CHPO-3R	CHPM-3R	φ 3×3mm	Cylinder	
CHPB-4B	CHPO-4B	CHPM-4B	φ 4mm	Ball	
CHPB-4R	CHPO-4R	CHPM-4R	φ 4×4mm	Cylinder	13,000min ⁻¹
CHPB-5B	CHPO-5B	CHPM-5B	φ 5mm	Ball	
CHPB-5R	CHPO-5R	CHPM-5R	φ 5×5mm	Cylinder	12,000min ⁻¹
		CHPM-5R-C01	φ 5×10mm	Cylinder	8,000min ⁻¹
CHPB-6B	CHPO-6B	CHPM-6B	φ 6mm	Ball	10,000min ⁻¹
		CHPM-10B	φ 10mm	Ball	6,000min ⁻¹

XEBEC Stone™ Mounted Point					
Product code	Head diameter	Head length	Equivalent grit	Shank size	Maximum rotation speed
AX-PM-5RF	φ 5mm	8mm	#220	φ 3mm×30mm	30,000min ⁻¹
AX-PM-3R	φ 3mm	20mm	#220	φ 3mm×20mm	60,000min ⁻¹
AX-PM-6T	φ 6mm	20mm	#220	φ 3mm×20mm	60,000min ⁻¹

XEBEC Ceramic Stone™ Meister Finish										
Stick type										
Size (mm) TxWxL	Yellow #1500	Red #1200	White #1000	Blue #800	Black #600	Orange #400	Light brown #300	Dark brown #220	Violet #120	
1.0×4×100	AY-1004M	AR-1004M	AW-1004M	AB-1004M	AP-1004M	AO-1004M	AL-1004M	AD-1004M	AV-1004M	

Rod type										
Size (mm) Diameter x Length	Red #1200	White #1000	Blue #800	Black #600	Orange #400	Light brown #300	Gray #220	Maximum rotation speed		
φ 3×50	PR-30S	PW-30S	PB-30S	PP-30S	PO-30S	PL-30S	PM-30S	30,000min ⁻¹		

XEBEC Ceramic Stone™ Pencil						
Product code	Equivalent grit	Color	TxWxL (mm)	Quantity/pack	Corresponding holder (Please use it with a corresponding holder)	
3PACK-AR-0505S	#1200	Red	0.5×0.5×50	3	PCL-5	
3PACK-AR-0909S			0.9×0.9×50	3	PCL-9	
3PACK-AB-0505S	#800	Blue	0.5×0.5×50	3	PCL-5	
3PACK-AB-0909S			0.9×0.9×50	3	PCL-9	
Product code	Size of Pencil tip		Corresponding XEBEC Ceramic Stone™ Pencil			
PCL-5	φ0.7mm (0.5mm square)		AR-0505S		AB-0505S	
PCL-9	φ1.3mm (0.9mm square)		AR-0909S		AB-0909S	

XEBEC Ceramic Stone™ Soft			
Product code	Equivalent grit	Size (mm)	
BS-2006M	#1200	TxWxL (mm)	2×6×100
PBS-30M	#1200	Diameter x Length	φ 3×100

Mobile Micromotor System	
Product code	
M2P33STX	

Precautions for use

※When using vibrating tools or rotating tools, please read the warnings and user instructions that accompany the tool, and then please use the tool at or below its maximum rotational speed.

XEBEC Brush™ Crosshole
 ※Use a tool that corresponds to the hole diameter. Failure to do so could lead to bending, deformation, or breaking of the bristles or shaft, and is dangerous.
 ※Be sure to begin rotation only after you have inserted the tool bristles into the cylinder to be processed. Failure to do so could damage or splay the bristles.
 ※Use with an electronic grinding tool that can control rotation speed.
 ※Don't use with pneumatic tools.

XEBEC Stone™ Flexible Shaft
 ※Use a cutting load of 5N or less (i.e., 500gf, with a bending displacement of 2mm or less) when deburring or polishing workpiece.
 Usage with an excessive cutting load may cause a dangerous broken or damaged shaft.
 ※Don't use with pneumatic tools.

Operator Safety Measures [For Protective Equipment]
 Always wear protective goggles, gloves and masks when operating the tool.
 In addition, wear long sleeves and have the cuffs/bottom of the jacket properly closed to minimize skin exposure.
[Beware of Grinding Powder]
 Grinding powder and burrs may scatter within an area around the work as the brush revolves; please stay clear of this area.
[Caution to Your Surroundings]
 The area around your work is hazardous in case flying pieces of fiber rods from the tools and grinding powder may scatter, enclose your working area to prevent other people entering, or have the people surrounding your work area wear protective equipment as well.
 ※Our products do not contain refractory ceramic fibers.

WARNING Follow the precautions for use and safety measures for operators above without fail. If you fail to observe them, there are following risks.
 A tool or a part of a tool may crack, drop off, distort or break. Broken pieces of a tool or grinding dust may stick into your skin, or at worst stick into your eyes, causing blindness.
 Dust generated by machining process may bring up skin irritancy or allergy.

Please visit our homepage for details.

<http://www.xebec-tech.com>



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Your Order

XEBEC

Ceramic Fiber Tools for Handwork

Quick deburring solutions with XEBEC innovative ceramic fiber tools

- XEBEC Brush™ End type
- XEBEC Brush™ Crosshole
- XEBEC Stone™ Flexible Shaft
- XEBEC Stone™ Mounted Point
- XEBEC Ceramic Stone™ Meister Finish



XEBEC Tools for handwork

Our unique Ceramic Fiber technology promises outstanding performance with safe, accurate and high quality finishing!

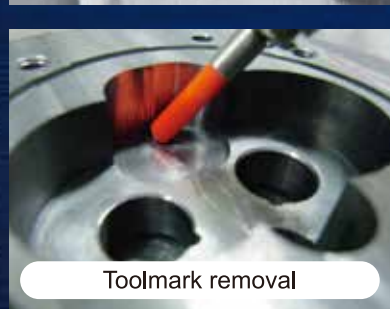


XEBEC Brush™ Ceramic Fiber Brush



XEBEC Brush™ End type

Optimal for reducing waviness on surfaces and for deburring and polishing of flat and curved surfaces



Use by contacting the tapered tip of the brush to the surface of a workpiece.

Recommended rotation speed **7000min⁻¹**
Don't use with pneumatic tools.



XEBEC Brush™ Crosshole

No need for point processing, making it ideal for deburring of inner diameter cross-holes and recessed parts.



Rotate the brush inside workpiece and move to use near the burr area.

Recommended rotation speed **3000~5000min⁻¹**
Don't use with pneumatic tools.

XEBEC Stone™ Ceramic Fiber Points



XEBEC Stone™ Flexible Shaft

Flexible shaft allows soft contact with a workpiece.



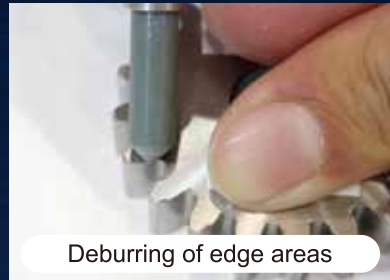
Use the tool by moving it lightly (bend displacement of around 0.5mm) and placing it into contact.

Recommended rotation speed **5000~8000min⁻¹**
Don't use with pneumatic tools.



XEBEC Stone™ Mounted Point

It can be used with air tools because it can be used with high rotational speed.



Use by contacting the tapered brush tip to the surface/bearing surface of a workpiece.

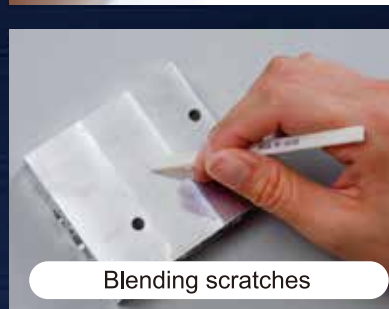
Recommended rotation speed **15000min⁻¹**

XEBEC Ceramic Stone™ Ceramic Fiber Stones



XEBEC Ceramic Stone™ Meister Finish

The innovative ceramic stones do not break, crack, or chip. Can be formed to fit the shape of the workpiece.



Form the ceramic stone tip to fit the narrow and thin place.

Recommended rotation speed **7000min⁻¹**



Designed for XEBEC products

Mobile Micromotor System/M2P33STX

- Jog dial & Digital display
- Portable & Rechargeable
- Ultra-small & lightweight handpiece

Part number M2P33STX Standard components Handpiece (with stand), controller, ON / OFF foot switch, power cable for use during charging Corresponding shank diameter φ3mm



Easy to form tips to fit a workpiece.

- Tip Shaping**
 - You can easily form it with an electrodeposited diamond file or grinding wheel, etc., to match your application.
 - To precisely narrow the tip of a rod type, chuck it to the rotating tool and rotate to form.
- Cutting & Dressing**
 - Make notches from both sides using an electrodeposited diamond file and cut off a tip.

