



XEBEC®

DEBURRING
TECHNOLOGIES

Successful Applications

Electric & Hybrid Vehicles

Automated Deburring & Finishing

Our customers have successfully used Xebec tools for deburring and finishing a variety of electric and hybrid vehicle parts.

Cooling parts - deburring



Material : Aluminum
Previous process :
Face milling
Tool :
XEBEC Brush™ Surface
(A11-CB40M)

Before



After



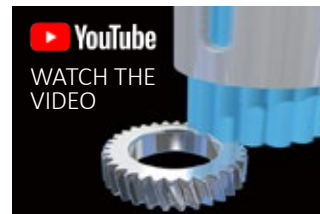
Problem

Burrs are generated on the outer periphery of the pins. Manual deburring was time-consuming and the edge quality was inconsistent. Horizontal burrs were not removed completely by a nylon brush.

Effect

Succeeded in CNC deburring with a simple tool path. The edge quality becomes stable and the cycle time was decreased.

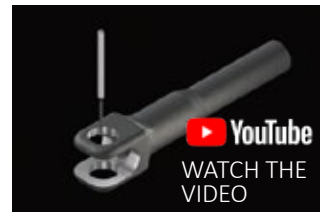
Pinion gear - deburring



Material : S45C
Previous process : Gear cutting
Tool :
XEBEC Brush™ Surface
(A32-CB40M)

[Read more about this application here](#)

Yoke - deburring



Material : SCM
Previous process : Drilling
Tool :
XEBEC Back Burr Cutter and Path™
(XC-58-A)

[Read more about this application here](#)

Control box - deburring



Material : Aluminum alloy
Previous process : Face milling
Tool :
XEBEC Brush™ Surface
(A11-CB25M)

[Read more about this application here](#)

Visit our Learning Center at:

deburringtechnologies.com



XEBEC®

DEBURRING
TECHNOLOGIES

Innovative Deburring &
Surface Finishing Solutions

Xebec® Ceramic Fiber

For use on materials up to 65Rc

The ceramic fibers are woven to create self-sharpening filaments that maintain consistent cutting action on the tips. Unlike wire and abrasive impregnated nylon brush filaments, the unique design of the Xebec fiber rod maintains its shape with no deformation even after repeated use. This leads to consistent performance time after time.

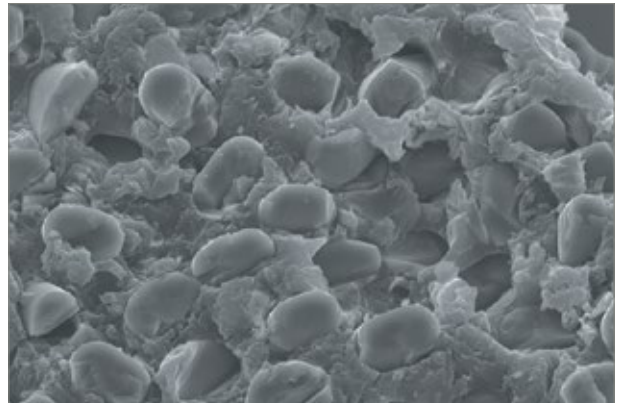
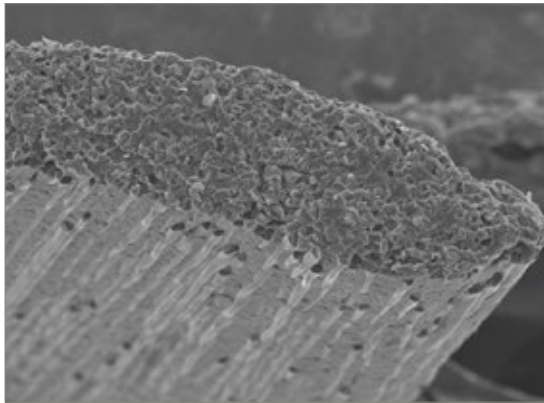
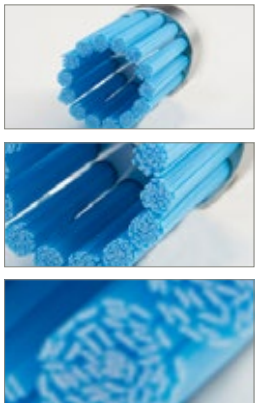
FINE FINISHING

up to

3.937 Ra
μi microinches

(0.1 μm micrometers)

Continuous Ceramic Fibers



Xebec™ Brush Surface

Ideal for simultaneous cutter mark removal, deburring, surface finishing and edges.

Xebec™ Brush Crosshole

For deburring and finishing the inner wall surfaces of bore and cross holes.

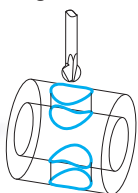


Xebec™ Back Burr Cutter and Path

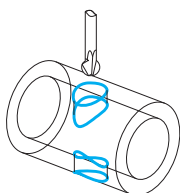
Spherical deburring Cutter with a custom-made tool Path. For CNC deburring of entry and exit holes in a single pass.

For a variety of edge shapes

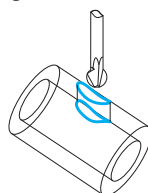
Orthogonal cross hole



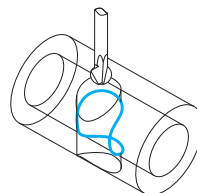
Off-center cross hole



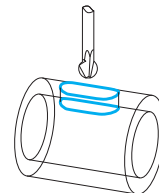
Angled cross hole



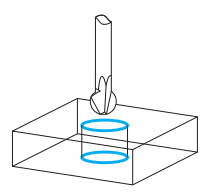
Broken cross hole



Slotted hole



Planar hole



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