

Ring-shaped internal gear



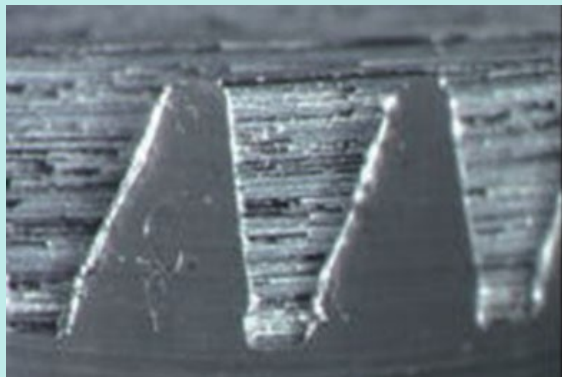
Workpiece information

Industry	Automotive
Part name	Ring-shaped internal gear
Material type	S45C
Cutting process	Gear cutting

Processing conditions

Tool	XEBEC Brush Surface (A31-CB40M)
Processing detail	Deburring the gear end face after gear cutting process
Spindle Speed (min ⁻¹)	2,000
Depth of cut (mm)	0.5

Before

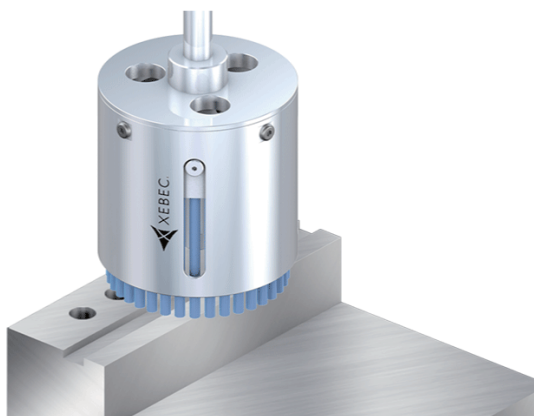


Tool	File
Problem	Metal filing handwork caused unstable quality. Complex shape of workpiece caused long lead time of deburring and high labour cost.

After



Tool	XEBEC Brush for Surface (A31-CB40M)
Result	Fully automated deburring introduced. Stable quality with shorter processing time as well as cost reduction realized.



Deburring after face-milling, end-milling and drilling
Cutter mark removal and polishing on surface

Tool > XEBEC Brush™ Surface

Ideal for deburring, cutter mark removal and polishing on surface

