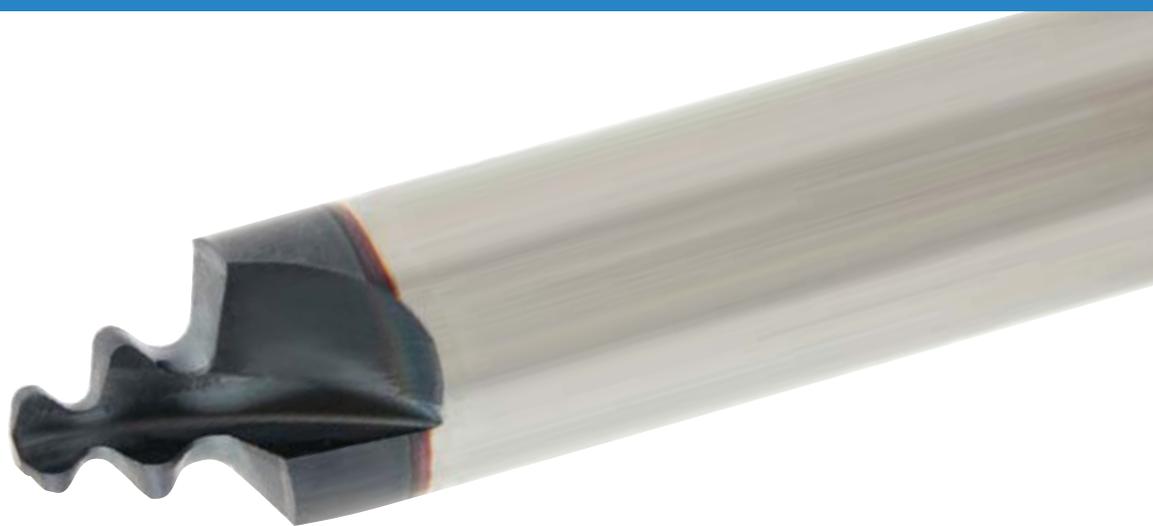


Machining of fir tree slots



High performance solid carbide profile tools



**KEEPS YOU
AHEAD**



Intelligent tooling solutions

– CUTTING YOUR COSTS...

By transferring knowledge from our aerospace activities, Kyocera Unimerco has developed a new tool programme for machining free tree slots in turbine discs and turbine blades.

New technologies to add maximum machining value

- New and improved carbide grade
- Super high precision grinding for optimum tolerances
- Nano composite coating C7 PLUS™
- Power Edge™ - groundbreaking edge preparation technique

Benefits

- Superior tool life
- Perfect component surface
- Much higher performance than by traditional HSS tools

Much lower cost per cut.

Better surface.

Fewer tool changes.

Machining slots in

- Turbine blades
- Discs and rotors



Saving 335 hours machining time

– PER MACHINE...

Replacing a HSS profile cutter with a newly developed SC profile cutter saves time and money for a large European turbine manufacturer.

	Previous solution	Our solution
	HSS fir tree cutter	SC fir tree cutter
Surface finish	Ra = 1,2	Ra = 0,4
Tool life	20 slots	192 slots
Machining time/slot	710 sec.	110 sec.
Total numbers of slots per year on this machine	2,000	2,000

Annual time saving or capacity increase

335 hours per machine

Market-leading delivery time

Get a customised tool to meet your individual demands. The delivery time for a solid carbide fir tree cutter is only 3 weeks from approval of overall design.

HSS fir tree cutter
(Competitor's solution)

SC fir tree cutter
(Our solution)



- Superior tool life
- Superior performance
- Superior quality

Industrial tooling solutions

Kyocera Unimerco is a global manufacturer and distributor, providing standard and customised cutting tool solutions as well as know-how and optimisation guidance for the manufacturing industry.

The company was founded in 1964 and has since expanded into 17 countries, with more than 700 employees.

Today the company is part of the Japan-based Kyocera Corporation.

In 1998 the Sheffield branch was established. It is specialised in supplying the industrial market with inserts, standard tools and related tooling solutions.



www.kyocera-unimerco.com