

## KYOCERA SGS INTRODUCES 'TOOL4LIFE' REGRIND SERVICE

Kyocera SGS ([www.sgstool.eu](http://www.sgstool.eu)), which specialises in producing solid carbide rotary cutting tools for machining difficult materials in the aerospace, medical, offshore and other industries, has introduced a new service called Tool4Life.

When a customer buys one of the company's Z5 HPR high performance end mills of 10 mm diameter or above, Kyocera SGS offers to regrind and recoat it free of charge, provided that it is not irreparably damaged. Alternatively, to ensure continuity of production at a customer's factory, a replacement milling cutter can be exchanged for a worn tool within 24 hours.



The Z5 HPR solid carbide range of tools is designed for roughing titanium and nickel alloys, cast irons and alloy steels including stainless grades. Subcontractors and OEMs working with these materials can therefore take advantage of the regrinding and recoating service, both of which are carried out at the Kyocera SGS European headquarters and technical centre in Wokingham, Berkshire.

Alan Pearce, the company's EU managing director commented, "We believe that with tool refurbishments or a next-day replacement cutter to keep a customer's production going, our Tool4Life initiative is unique in the metalcutting sector."

"It is a reflection of the quality of our solid carbide end mills, which can be repeatedly reground for the life of the cutter unless the teeth are beyond repair when we inspect them - and there is no restriction on the number of tools that a customer can send us."

Z5 HPR end mills are available in diameters ranging from 3 to 25 mm. A variety of square and corner radius options may be specified, as well as many different lengths. Due to its asymmetry, the variable 5-flute pattern suppresses chatter over a wide spindle speed range and is so effective that a patent application has been filed. A surface finish of 0.8 Ra or better is normally achieved, even during aggressive roughing.

There is a choice of two multi-layer, wear-resistant coatings. Tinamite M offers reduced friction and

prevents built-up edge when machining difficult materials like titanium at high metal removal rates.  
Optionally, Tinamite A is highly resistant to abrasion and erosion and is more suited to cutting stainless steels and nickel alloys along with steels and cast iron.