Innovate

# VIDEO: Z-Carb HPR Summary

## Brought To You By Kyocera SGS Precision Tools | Mar 22, 2019

Titanium is a very popular material that is widely used in Aerospace, Automobile and Biomedical part manufacturing industries, but it is not without its challenges. Titanium is very chemically reactive and therefore, tends to weld to the cutting tool during machining, thus leading to chipping and premature tool failure. Its low thermal conductivity increases the temperature at the tool/workpiece interface, which affects the tool life adversely.

With these challenges in mind, the KSPT technical team designed the Z-Carb High Performance Rougher. Watch the short video above to see it in action.

The Z-Carb HPR Five Flute Roughing End Mills are ideal for achieving high metal removal rates (MRR) and a finish of 80 RMS or better on most materials. The specialized five flute design is engineered for increased productivity over three and four flute end mills. The variable indexing geometry allows for improved chatter suppression over symmetrical designs.

KYOCERA SGS Precision Tools (KSPT) actively maintains a serious commitment to research and development. Our reputation for quality and ever increasing Value at the Spindle® pushes us to continually innovate and discover the next best thing in cutting tool technology. The Z-Carb HPR is a product of this passionate pursuit. Field testing demonstrates the KSPT design achieved higher material removal rates while meeting or exceeding expected tool life. The specialized geometry allows for aggressive feed rates to increase productivity and enables exceptional finishes.