

Innovate

VIDEO: Z-Carb Advanced Productivity (Z-Carb AP) Summary

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Stainless steels, like 17-4Ph are one of the most commonly used materials in all the manufacturing industry. Its applications include aerospace, automotive and even the nuclear industry. In an annealed state, 17-4 stainless steel can be one of the nastiest materials to work with. It can get gummy and warp or twist if it has not been heat treated.

With conventional end mills, the cutting teeth entering and exiting the material creates a natural rhythm that results in damaging harmonics. Harmonics produce a frequency that resonates through the entire tool, resulting in one of the most damaging forms of cutter wear known as chatter. Chatter degrades the quality of your finish. Until now, your only choice was to adjust your operating parameters to account for the limitations of your conventional end mill. With its patented, one of a kind geometry, the Z-Carb AP offers three stages of chatter suppression, resulting in the quietest, most stable milling experience available. Watch the short video above to see it in action.



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 AP 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.