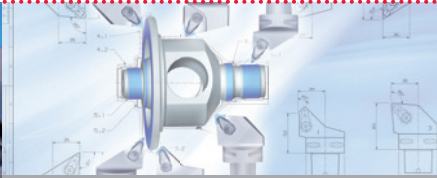


SPK INNOVATION

FOR CAST IRON MACHINING



TOOLS



TECHNOLOGY



APPLICATION



IKS-PRO*Tec*

HIGH PERFORMANCE CLAMPING SYSTEM FOR CERAMICS AND PCBN

IKS-PRO Tec

IKS-PRO Tec is a new tooling system for turning components made from cast iron materials under the most extreme conditions. Cutting speeds of up to 2,000 m/min

at a feed rate of 1 mm can be obtained even under the most unfavourable cutting conditions. Based on the proven IKS-PRO clamping system, individual components

from the high-performance system were further developed for high-performance machining under severe conditions.



THE ADVANTAGES OF THE NEW SYSTEM COMPONENTS:



THE CLAMPING ELEMENT

The clamping element is fitted with a carbide pressure plate with integrated chip protection, which increases the tool life by up to 10 times.



THE INSERT SEATING ADAPTER

The adapter is made from high temperature-resistant material. This material prevents the insert from becoming embedded in the the insert seating and ensures that the insert and clamping element are correctly positioned, even under the most severe thermal and mechanical conditions.



THE CERAMIC SHIM

Together with the insert seating adapter, the ceramic shim minimises the transfer of heat into the tooling system. The resulting thermal stability in the insert seating means that PCBN cutting materials can be used with absolute process reliability, even with extremely high cutting values.



Efficiency and process reliability combined with a wide range of applications and simple, fast operation make IKS-PRO Tec a tool system that offers maximum productivity under extremely demanding cutting conditions.

EASY CHANGE

TECHNOLOGIE

The IKS-PROTec Easy Change technology allows for the quick and simple switch between different cutting materials such as silicon nitride ceramic, SiALON and PCBN,

without changing the entire tool system. This is highly advantageous if, for example, "fresh cast iron" that was cast shortly before the machining is to be processed;

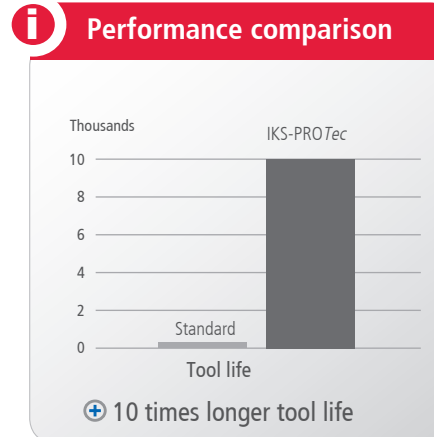
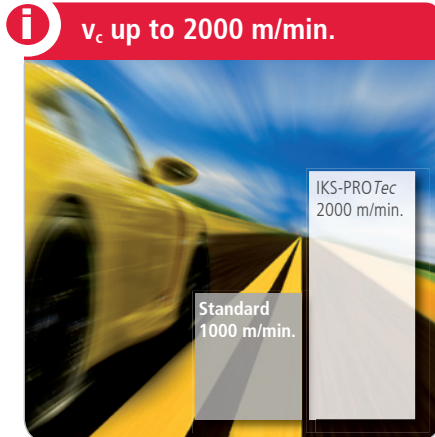
the fast conversion from PCBN to ceramic material ensures that the customary level of productivity can be maintained during the machining.

ONE TOOL – ALWAYS AS NEW

Thanks to the economical, simple and quick replacement of the high-performance system components – insert seating

adapter, ceramic shim and clamping element – it is as if a new tool holder is created each time. This also ensures that

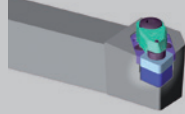
the process reliability remains at the highest level, even with tools that been operated for hours at high-performance conditions.



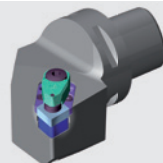
Types of IKS-PROTec

CNGX 12 04 ..
CNGX 12 07 ..
SNGX 12 04 ..
SNGX 12 07 ..

for shaft tools



for CMS Tools



Tools are equipped with IKS-PROTec you can receive upon consultation with SPK Cutting Tools.

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