

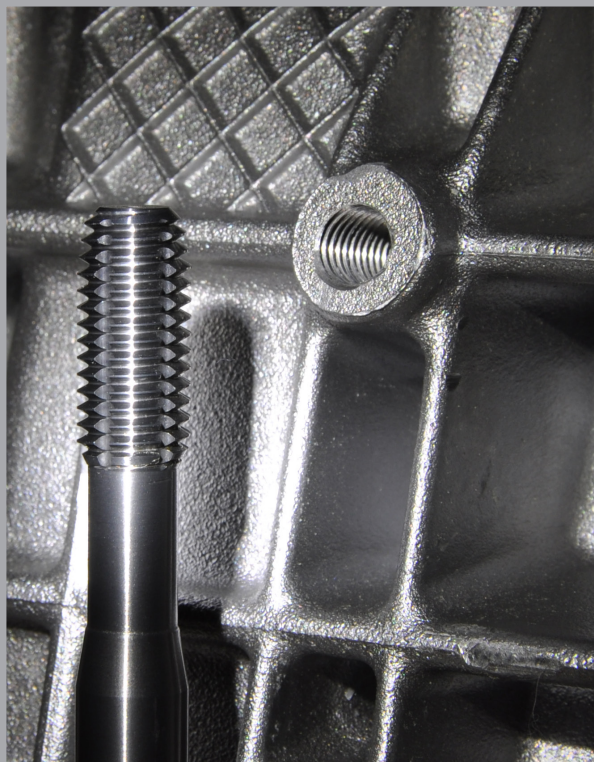
SCHUMACHER
PRECISION TOOLS SINCE 1918



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SCHUMACHER
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Solid Carbide Technology

The Royal League in Threading Operations

ToolDesign
by Schumacher



VHMtec
CARBIDE by Schumacher



Solid Carbide taps for sophisticated applications

Project Solid Carbide Taps

Solid Carbide Technology in high-end threading

Performance programs by major industrial players have targeted productivity for years and have increased the demands made on cutting tool producers as their suppliers. In this development, process reliability has turned out to be a deciding criterion throughout the design of cutting tools.

New Solid Carbide Alloys and hard material coatings with superior physical and kinematic properties



The series is designed for the following industrial sectors:

- > Automotive
- > Energy
- > Aerospace
- > Heavy Duty
- > Medical Technology
- > Water Technology



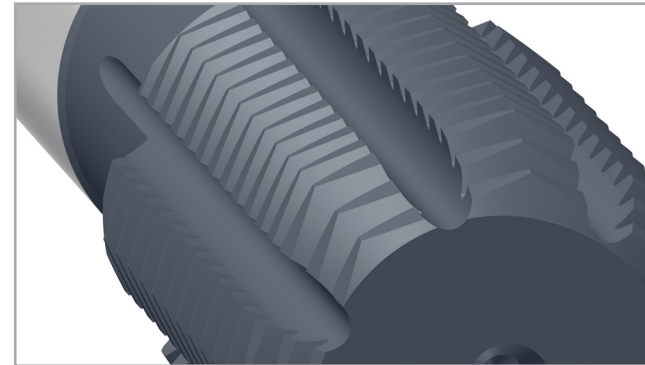
The development of the solid carbide range is supported by drawing upon the comprehensive engineering module **ToolDesign**. By integrating analytical methods and incorporating algorithms, Schumacher Precision Tools has designed digital models of the new machine tap and forming tap series. These models are used for the entire production process and pilot batches of taps.

Both substrates and hard material coatings have been developed for the new technology. Combining a new tap design and an optimized material technology allows for a significantly broader range of applications.



R & D for the new Solid Carbide Threading Tool Series:

Revolution in Process Control



Consistency in Quality and reproducibility through digital networking

The engineering module **ToolDesign** serves as a basis for any technological innovations implemented in the SCHUMACHER solid carbide tap series. New sets of data with modified geometry parameters have resulted in performance increases. Any geometrical specifications are transferred digitally to the Computerized Numerical Control panels of the machinery – in order to ensure consistency and reproducibility at a high level.

Key Advantages of the new Solid Carbide Technology:

- > Significant increase in tool life
- > Optimized surface quality of workpiece thread
- > Increase in cutting speed – up to threefold
- > Meeting High Speed Cutting (HSC) criteria in production
- > Broadening the range of employment
- > Maximizing process stability
- > Broad range of products in stock

ToolDesign

by Schumacher

