— Press release

Caption: In addition to an extremely long tool life for ISO M and ISO S materials, the new RM5 turning geometry also impresses due to its very broad range of applications and thus, the wide variety of components, which it can machine. Image: Walter AG

Targeted cooling – directly beneath the chip

Walter RM5 coolant jet guiding turning geometry increases tool life with ISO M and ISO S

Stainless materials are becoming increasingly important, and not only in the food industry and medical engineering. Walter is providing a completely new type of coolant jet guiding insert geometry for machining both ISO M and ISO S materials in the form of the RM5 geometry: Deep, parallel twin coolant channels convey the coolant even closer to the cutting edge, directly beneath the chip. The result: Maximum cooling – and therefore a considerably longer tool life for roughing operations than was previously possible.

The new RM5 geometry in the current ISO basic shapes combines design features, such as the double positive macro-geometry, with Walter's own Tiger·tec® Silver coating featuring a PVD-Al_2O_3 heat shield. In addition to the unique profile of the coolant channels, the RM5 geometry includes two other features which increase tool life. The new cutting edge design also reduces crater wear, as well as the formation of workpiece material build-up on the cutting edge and the occurrence of notching.

The new RM5 geometry roughing turning insert is the first of its kind in the new ISO M family. Other geometries for medium machining and finishing are to follow. It achieves optimum results when used in combination with Walter precision cooling toolholders. This is because these toolholders feature both rake and flank face cooling. In addition to this advanced method of cooling, the insert can also be used in conjunction with standard ISO turning toolholders on any lathe with standard coolant supply setup.

For more information:

Facebook YouTube LinkedIn Twitter Xing RSS Google+

To go to the Walter website:
Scan this QR code or go to http://goo.gl/LHz9R