



Press Release

Tools with mirror-smooth surfaces: HAM polished even more thoroughly

HAM-Hartmetalwerkzeugfabrik Andreas Maier is focusing on a new process the MMP TECHNOLOGY® (Micro Machining Process) owned by the Swiss company BINC INDUSTRIES: the selective processing of microstructure roughness allows to refined surfaces of solid carbide (VHM) tools highly precisely. The cutting tools thus treated have significantly better surfaces than conventionally polished. HAM has secured with BINC INDUSTRIES SA, the European-wide exclusive right to use the MMP TECHNOLOGY® for an essential part of its portfolio for this procedure.

Schwendi-Hörenhausen, 18.09.2017 – With MMP TECHNOLOGY®, the roughness of the surfaces can be significantly better controlled compared to the classic polish. Mirror surfaces can be produced reproducibly and the user always can control costs. The micro-treatment is carried out according to a special mechanical-physical-catalyst method. The machine generates high energy movement. Aggregated particles are brought into relative motion. The surface thereof has precisely the micro-cutting frequency which corresponds to the topology of the roughness which is to be removed on the tool.

The ability to freely adjust the desired roughness greatly improves the surface specific characteristics of the tools. The lower friction leads to an optimum chip removal and a reduced cutting effort. Thin coatings are easier to apply and adhere much better. The MMP TECHNOLOGY® treatment of PVD coatings increases the cutting quality through less friction. Edges can be sharpened. The removal of micro-burrs in the range <math><1\mu\text{m}</math> strengthens the cutting edges. MMP TECHNOLOGY® - treated tools offer a longer service life. The users can drive increased cutting and feeding speeds. With this method, the surfaces can also be produced reproducibly and homogeneously.

HAM USES MMP TECHNOLOGY® for solid carbide tools, Solid carbide tools with diamond coating, solid carbide tools PCD-equipped, standard and special tools in the areas of milling, drilling and grinding. Main and secondary cutting edges, chip spaces and guide chamfers are machined. The company has tested MMP TECHNOLOGY® in a variety of different variants. "This process works absolutely reliably. The treated tools work perfectly, are particularly low friction and prevent material wear. The surface quality of the machined workpieces is also very good", summarizes HAMs CEO Günter Eberle. For example, in the case of a drill HAM



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NIRODRILL having an average roughness depth of $Rz = 0.528 \mu\text{m}$ before the treatment after polishing by **MMP TECHNOLOGY**®, the very good value of $Rz = 0.214 \mu\text{m}$ was easily achieved.

When machining stainless steel, **MMP TECHNOLOGY**® - treated tools achieved better surfaces and less friction than conventionally polished. Cutting tools with surface precision machining have also been convincing in aluminum processing. In spite of three-fold higher feed rates, there were no build-up edges.

The securing of Europe-wide exclusive rights was a strategically important step for HAM. "We have recognized the potential of this process and are glad to have concluded the contract with BINC INDUSTRIES SA on the usage of the **MMP TECHNOLOGY**® for HAM products," says Günter Eberle. It does not preclude offering competitor tools with **MMP TECHNOLOGY**® as an external service in the future.

Meta-Title: HAM offers tools with new Finishing Technology

Meta-Description: HAM offers tools with **MMP TECHNOLOGY**®, a new finishing technology for solid carbide tools.

Keywords: HAM, solid carbide tools, **MMP TECHNOLOGY**®, finishing, cutting edges

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Caption:



Pic. 1: HAM offers tools with **MMP TECHNOLOGY**®, a new finishing technology for solid carbide tools.



Pic. 2: Cutting tools finished with **MMP TECHNOLOGY**®, have significantly better surfaces than conventionally polished.

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Bild 3: HAM has tested the technology with a large number of different tool geometries and is confident of the efficiency.

(Please note the correct imprint of the pictures)

Pictures: HAM Hartmetallwerkzeugfabrik Andreas Maier GmbH

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