

— Press release



Caption: Pinpoint cooling, longer tool life, high quality surface finish: With its MS3 geometry combined with WSM01 HiPIMS coated grade, Walter is launching a new, exceptionally efficient combination for machining ISO S materials with difficult cutting properties. Image: Walter AG

New grade, even longer tool life


Walter MS3 geometry combined with WSM01: Ideal for ISO S materials

With MS3 and WSM01, Walter AG is presenting a new geometry and a new grade. The new WSM01 grade, manufactured using the HiPIMS method, enables extremely smooth surfaces to be achieved. It is characterised by an excellent distribution of layer thicknesses and by outstanding layer bonding. The combination of the HiPIMS PVD hard layer and the new MS3 geometry is ideal for machining ISO S materials with difficult cutting properties such as high temperature alloys, titanium alloys, cobalt-based alloys and nickel-based alloys (e.g. Inconel 718). A secondary application of this new grade is materials in the ISO material groups P, M and N.

The negative inserts with MS3 geometry are available with both sintered and fully ground circumference. Its smooth surface and extremely sharp cutting edges keep built up edge to a minimum and ensure high surface finish quality. This makes it significantly easier to manufacture burr-free components with reliability. The new insert is particularly suitable for machining unstable or thin-walled components and setups with long overhangs, as the low cutting pressure prevents vibration. The MS3 insert – much like the RM5 – is equipped with jet guiding geometry to ensure optimum cooling directly on the cutting edge. It is

particularly well-suited to copy turning applications and to medium machining applications in general mechanical engineering, the automotive industry and the aerospace industry.

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