

Metalworking

Video: TC420 Advances in Thread Forming

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There are many benefits to using a thread former over a traditional cutting tap such as no chip formation, no miscutting, improved surfaces and the high strength of formed thread. The new versatile high-performance TC420 Supreme thread former builds upon these advantages and features a new substrate and a new polygon geometry that provides better forming behavior, less friction, and longer tool life. In addition, its polished surface yields a better surface finish than is achieved with thread cutting.

This combination of features allows the new Walter TC420 Supreme thread former to reach higher tool life by producing up to 30% lower torque with higher cutting speeds. There are numerous variants in the TC420 Supreme product range, such as various coolant configurations, thread tolerance, chamfer forms and overall lengths. The new thread former can be used universally since it is ideally suited for most ISO material groups. Applications include $3.5 \times D_N$ with grooves/internal cooling, and $3.0 \times D_N$ without grooves/ internal coolant.

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