

Thread whirl cutters for micro and small sized threads

The actual tendency is the miniaturisation in every domain with high added value, from the medical over the watch, glasses, dentist, car industry, the energy transmission, the telecommunication and electronics to the aircrafts, everywhere the same slogan: "smaller, lighter and more reliable".

Since the assemblage of threads in the micro structure is finally largely improved, it cannot be sacrificed now on the altar of the rationalisation. However, to realise threads of very small dimensions by respecting entirely the norms often demands very specific skills. Furthermore, the association of titanium, titanium alloys, nickel alloys and other stainless steels, abundantly used in this most advanced field of application, and the micro threading endangers automatically the security process in the industrial production.

Listening to the numerous requests of their partners and customers, **DC SWISS SA** is highly involved in innovating and ameliorating its production line to respond to the exigencies in quality and gain in productivity.

The new programme of thread whirl cutters in solid carbide developed by **DC SWISS SA** permits a high production process and safety in the realisation of threads from diameter 0.3 up to 6 mm, even up to 4 x D1, in all difficult to machine materials on modern CNC machines or turning lathes with high speed frequency spindle.

The wide range of solid carbide thread whirl cutters from **DC SWISS SA** covers most of the intricate applications encounter on the markets. They are available in 4 different versions, either with or without coating.

- Type **GW1016** and **GW1016VS** – **single tooth thread whirl cutter** allow an easy access for lubricant. Specifically designed for micro threads up to 2.5 x D1 in general application.
- Type **GW2016** and **GW2016VS** – **single profile multi toothed thread whirl cutters** are designed to reduce radial pressure whilst climb milling, in standard applications, in holes up to 2.5 x D1 thread depth.
- Types **GW3016** and **GW3016VS** for thread depth up to 2.5 x D1 and **GW3019** and **GW3019VS** for thread depth up to 4 x D1 - **double pitch thread whirl cutters with multi flutes**, ensure a complete thread profile. Highly recommended for titanium and stainless steel applications.
- Types **GW4016** and **GW4016VS** for thread depth up to 2.5 x D1 and **GW4019** and **GW4019VS** for thread depth up to 4 x D1 – **thread whirl cutters, multi fluted with full profile form**, ensure a burr-free thread, specifically for medical implant component applications.

This additional segment is an important enrichment of the already very wide standard programme and enforces the image of the brand **DC SWISS**, one of the very well known threading tool manufacturers in Europe.