Thread Whirling Tools



For Perfect Long Threads on Swiss Type Machines

Thread Whirling is a fast and accurate way to thread long, small diameter parts in exotic materials such as titanium, stainless steel and Inconel.

Whirling inserts and holders can produce a wide range of medical parts such as dental implants and bone screws, automotive parts and semiconductor small parts.

Cutting is the result of the whirling ring rotating eccentrically at high speed about the slowly rotating workpiece. The advancement of the workpiece rotationally and the advancement of the tool head longitudinally correspond to the thread pitch required.



CARBIDE GRADE

BMA - PVD TiALN coated submicrograin for stainless steel, exotic materials.

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Thread Whirling Advantages

Thread Whirling offers several advantages over single point threading:

Enabling production of small diameter long threads when used on Swiss type machines, the thread whirling spindle works close to the guide bushing for increased support and rigidity.

Increased Productivity:

Thread Whirling is performed in a single pass, resulting in a shorter machining time. This eliminates multiple passes required for a single point threading. Thread whirling allows working at high feed rates and consequently short cycle times.

Very high surface quality and accurate geometry:

The use of up to 8 cutting edges, higher concentricity, special cutting edge geometry and ideal chip removal, enable top quality surfaces to be produced without burr.

Long tool life:

Whirling inserts have a stronger cutting edge than single point tools, because cutter side clearance is achieved by rotating the whirling spindle, not by relieving material under the cutting edge.

Faster Setup:

Thread whirling eliminates special support devices and expensive startup development costs.

Compensation of large helix angles:

Large helix angles can be compensated by adjusting the whirling unit.

- One toolholder can be used for various applications.
- All toolholders are standard stock items.
- Inserts are made for each application as a special item.
- The toolholders are designed according to different machine types and manufacturers.
- Special adaptors for machine heads are available as stock items.

Product Identification









| Machine | | Drive | Whirling Head | 7 | | 41 | Insert | Insert | Torx |
|---------|--------------------------|-----------------|-----------------|---|----|----|--------|--------|------|
| Туре | Model | Unit | Ordering Code | 2 | | | Size | Screw | Key |
| Star | SV12 / SV20 | Star | SRW4012 418 - 6 | 6 | 12 | 40 | 16 | SW16 | KW16 |
| | | | SRW4012 424 - 8 | 8 | | | 11 | SW11 | KW11 |
| | SR20 / ECAS20 | | SRW4012 419 - 6 | 6 | 12 | 40 | 16 | SW16 | KW16 |
| | | | SRW4012 425 - 8 | 8 | | | 11 | SW11 | KW11 |
| Citizen | M12 / M16 | РСМ | SRW4512 422 - 6 | 6 | 12 | 45 | 16 | SW16 | KW16 |
| | | | SRW4512 426 - 8 | 8 | | | 11 | SW11 | KW11 |
| | M20 / M32 | | SRW4512 423 - 6 | 6 | 12 | 45 | 16 | SW16 | KW16 |
| | | | SRW4512 427 - 8 | 8 | | | 11 | SW11 | KW11 |
| Tornos | DECO 13 / 20 | Tornos W & F | SRW4012 420 - 6 | | 12 | 40 | 16 | SW16 | KW16 |
| | Evo Deco 16 / Deco 13 | | SRW4012 419 - 6 | 6 | | | | | |
| Traub | TNL26 / TNK36 | Traub | SRW4116 421 - 6 | 6 | 16 | 41 | 16 | SW16 | KW16 |
| Hanwha | XD20 | Maduala | SRW4012 604 - 6 | 6 | 12 | 40 | 16 | SW16 | KW16 |
| Maier | ML20D | PCM | SRW4012 417 - 5 | 5 | 12 | 40 | 16 | SW16 | KW16 |
| Nexturn | SA20 | PCM | SRW4512 642 - 6 | 6 | 12 | 45 | 16 | SW16 | KW16 |
| | SA20 | WTO | SRW4212 557 - 6 | 6 | 12 | 45 | 16 | SW16 | KW16 |



