

# THE SWISS GT 13: YOUR ADVANCED MACHINING SOLUTION

**Efficiency, versatility and ease of use are the hallmarks of Tornos' Swiss GT 13, an advanced machining solution conceived to yield measurable production improvements.**



After just a year on the market, the Swiss GT 13 is proving itself a champion at delivering highly efficient production of even the most complex parts across a wide range of industrial applications. From components for electronics and medical/dental screws and implants to parts for watchmaking and jewelry fabrication, manufacturers take their turning operations to a new level with this solution.

The Swiss GT 13's advanced technical features and efficient six-axis kinematics make it ideal for a variety of manufacturing challenges – and breaking into new and lucrative markets.

With a maximum diameter of 13 mm, six linear axes and two C axes, the Swiss GT 13 can accommodate up to 30 tools, 12 of which rotate. Thanks to the

intuitive Tornos Machine Interface (TMI) and available TISIS programming system, machine programming in ISO language is made easy and idle time is minimized. The TMI made its debut on Tornos' popular SwissNano, and TISIS software is renowned for its many onboard aids and macros that take the complexity out of machine operation.

## **Versatility – built in**

With its very dense tooling capacity, the Swiss GT 13 positions you to tackle the market's most complex parts. With a modular tooling position that puts you on the fast track to advanced operations, you'll easily master thread whirling, polygonal milling, and angular milling.

## The present



Standard to the Swiss GT 13 is a counter-operation station equipped with a Y axis that can house eight tools. Operations and counter-operations are performed completely independently of one another. Increasing your freedom of programming are this solution's spindle and counter spindles with identical power ratings, so you can say goodbye to the days of choosing heavy bar operations due to insufficient power in counter operations.

### Satisfying your need for speed

The Swiss GT 13 is, in fact, built for speed because every second counts in today's highly competitive manufacturing environment. Its motorized guide bush is supported by a liquid-cooled, 15,000 rpm motor spindle. Your cycle time is significantly reduced by the machine's direct rotary drive guide bush that paves the way to high-speed, accurate machining.

Easily work with or without a guide bush and realize the advantages of a comprehensive bar turning solution to drive your productivity and cost efficiency on complex parts. This solution can easily be converted into a guide bushless machine in fewer than 15 minutes with our easy-to-use kit. With our kit, your short parts will be easy to execute. A handy support for your guide bush can be found right next to the spindle – no time-consuming cable disconnection required. Experience guide bushless turning – an advantage that is unique to Tornos customers.

### Optimizing your ease of use

With the Swiss GT 13, Tornos once again demonstrates its strong focus on ergonomics that optimize your autonomy and your machine operator's ease of use. Emptying the swarf container while the machine is running is a snap, and setup change over time is accelerated by the easily accessible machining area. Furthermore, the numerical control on the swivel arm and the handy tool box put autonomy within arm's reach.

Extending your ease of use is the Swiss GT's three motors to drive up to 30 tools – including 12 rotating tools; two of those motors are on the platen and the third is for back operations. Accommodating special attachments – and there are many to choose from – is a modular position. Rotating tools on the rear platen and the counter-operation station are easily exchangeable and compatible with the Swiss GT's big brother, the Swiss GT 26.

### Peripherals to extend your versatility

To maximize your versatility and productivity, Tornos offers a broad range of peripheral solutions. For example, our Robobar SBF 213 bar-feeding unit – ramps up your Swiss GT 13's speed and precision while imparting greater vibration damping. Its side loading of up to 20 bars in diameters of 2 mm to 13 mm improves your operator's ease of use. Capacity wise, the SBF 13 is available in numerous models including two, three and four meters, with respective maximum bar weights of 330, 355 and 377 kg. Furthermore, this solution offers the same quality of guidance as a high-quality bar loader equipped with tubes, and its ergonomic design and innovative side loading make it easy for the end user to master and it can be used when the loader is in operation.

Other success-enhancing Swiss GT peripherals range from our radial polygon milling unit for main operations to our rotating milling/slotting attachment for saw for main and counter operations.

### TISIS to the rescue

Enjoy simple, streamlined programming your Swiss GT 13, with our available TISIS communication and programming software. As your portal to the advantages of Industry 4.0, TISIS knows your Tornos machine fleet and can help you decide which machine to use for a specific part. Those advantages put you on the fast track to truly effortless programming and real-time process monitoring.

With TISIS, you can assess all of your machine's options, reduce the risk of collisions and productivity-limiting stoppages, and achieve greater production efficiency. As a smart and advanced code editor, TISIS does the thinking for you. It can help write your code and point out any coding errors – and it puts your code in color and can display your program in an attractive, easy-to-read Gantt chart. You'll easily identify critical paths and react quickly to optimize your processes, with TISIS at your fingertips.

#### Tornos Service

Like all Tornos products, the Swiss GT 13 is supported by Tornos Service with its geographical proximity to you and a keen understanding of your processes, applications and market challenges.

Buying a Swiss GT is much more than a business transaction; it's an investment in your future. Depend on Tornos Service's unparalleled continuity of support, including 12 Tornos Service Centers strategically located across Europe, Asia and the Americas, for start-up assistance; expert training and coaching; free hotline; on-site operations support and preventive maintenance; original spare parts seamlessly delivered worldwide; complete overhauls to extend the longevity of Tornos machines; and a range of operations and X-change Modules to expand your application capabilities and profitability.

## TORNOS

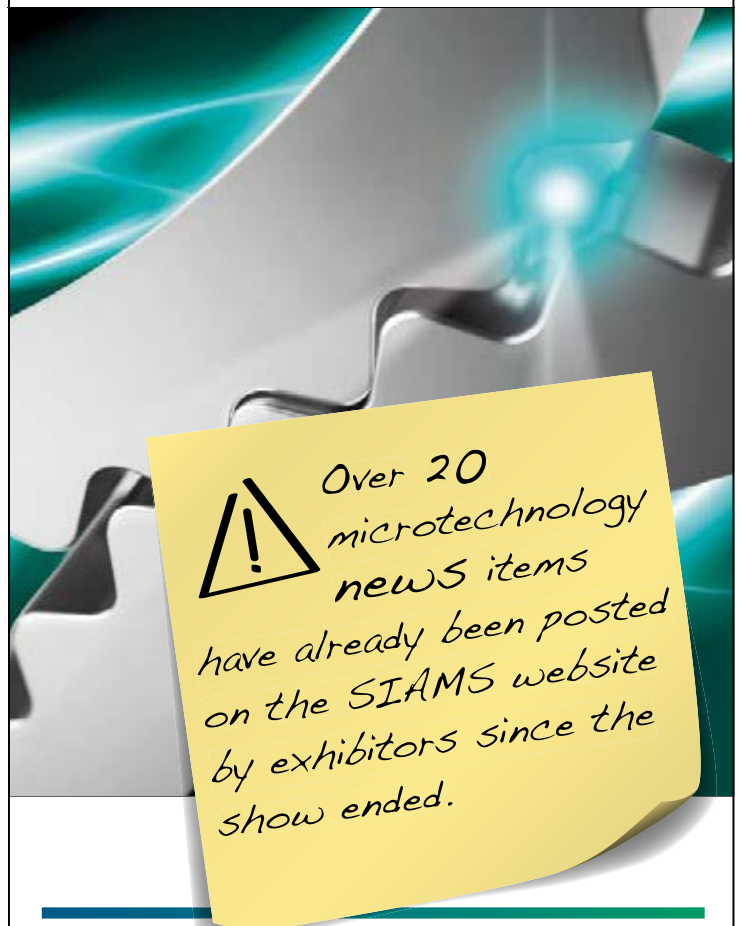
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