

NEWS

Moutier, the 21st of August 2018

Tornos Technologies US invites you to experience the new and original at IMTS 2018

Globally renowned Swiss machine tool manufacturer, Tornos, will be among technology leaders setting the course for the future of manufacturing at IMTS 2018 Booth 339053 from September 10-15 at McCormick Place in Chicago, Illinois.

This year at IMTS, visitors in Tornos 1,500 ft² booth will experience a full-range of technologies from single-spindle to multi-spindle, along with its very own Industry 4.0 software, TISIS. Six machines will be displayed in Tornos' booth: US Premiere – SwissDECO 36, MultiSwiss 6x16, Swiss GT 26, SwissNano with a patriotic American flag decal, the Esco NM6 Flexi, and an original 100-year-old Swiss lathe, No. 20, made in 1917. Three Tornos products will also be represented in Tornos' distributor, Methods Machine Tools' booth 339119: MultiSwiss 8x26, SwissNano, and Swiss GT 26.

Tornos will tell the story of its progression over 100 years, and entrance into multi-tasking, with the SwissDECO premiere. In line with the premiere of its multi-tasking machine, Tornos will be manufacturing a multi-tasking pen. Visitors will walk by machine stations and receive the final product with each pen part custom made on Tornos machines.

Visit Tornos at IMTS booth 339053. See how far we have come in 100 years - and let us show you how far you can go with Tornos today.

SwissDECO 36: New, multi-tasking lathe! US Premiere

The SwissDECO multitasking single-spindle lathe, will premiere for the first time in the US at IMTS, and is suitable in demanding industry segments such as automotive, medical and dental, electronics and aerospace, due to enhanced machining and tooling solutions. The SwissDECO is equipped with optimized programming tools and ergonomics for quicker parts programming and less setups. Available in multiple configurations and dimensions (25.4 mm bar diameter and 36 mm)—combination turret with b-axis for turning/milling operations, opposing gang, and more, the version with a dual gang will be displayed at IMTS. Seamless integration of options such as the oil mist extractor, chip conveyor, heat exchanger, fire protection system, high pressure pumps, and a bar loader is assured. The SwissDECO proves to be the ultimate-performance machine that provides operating flexibility, while remaining

user-friendly. With more than 100 years' experience backed into a single machine, the SwissDECO is a genuine vision of the future of bar turning.

MultiSwiss 6x16: the most compact and accessible multi-spindle solution!

Accommodating workpieces up to 16 mm in diameter and 40 mm long, with 14 linear axis and seven C axes, the MultiSwiss' productivity can be further boosted by the addition of one Y axis. This MultiSwiss platform is based on an "all-in-one" concept, which combines the benefits of single-spindle turning machines with the advantages of multi-spindle machines. Highly productive, just one MultiSwiss can replace multiple single-spindle lathes while providing more production capacity, less floor space, and it requires fewer operators. Thanks to its motorized barrel, these solutions achieve the same production rates as cam-type machines—but with a quieter operation. The machine ergonomics boast a large door opening for front access and integrated peripherals, make setups quick and easy, and the simplified programming makes it simple for single-spindle operators to get great results. The dynamic and entirely independent spindles allow angular positioning and optimal speeds in each position. Since each spindle has its own Z-axis with hydrostatic bearings, you get flawless finishes and extend tool life by 30 to 40 percent.

MultiSwiss 8x26 : on display at Methods Booth

Accommodating workpieces up to 26 mm in diameter and equipped with eight spindles, each position can hold up to four tools. The MultiSwiss 8x26 takes performance to a new level in terms of both complexity and productivity. With eight highly dynamic synchronous motor spindles and quick barrel indexing, the new MultiSwiss 8x26 helps users achieve heightened productivity. Its powerful 11-kW motor spindles boast high torque (16.1 Nm) and operate independently to ensure the optimum speed for each operation as well as controlled positioning in frontal and counter operations. Reaching speeds of 8,000 rpm in only a few tenths of a second, these motor spindles make a major contribution to the machine's performance. Optionally, the machine can be equipped with multiple Y-axes to boost its capabilities and allow more tools and full control of the Y-axis for off center-holes or any specific milling operation. The machine is available in three configurations: without Y-axis (entry level); with three Y-axes (intermediate); with six Y-axes (complete) for the most complex parts.

SwissNano: champion for manufacturing small workpieces with high precision

The machine's unique kinematics enable turning, drilling, cutting, deburring, roughing and finishing operations, allowing it to produce two-thirds of watch movement components—from the simple to the most complex—and it's equally adept at executing micro medical and dental parts with extreme quality and precision. Behind the SwissNano is a machine design delivering exemplary balance, and its thermal management allows operating temperature to be reached rapidly so that you're quickly on your way to achieving perfect results. This compact solution offers excellent accessibility for easy setup, and can be used with a fixed/rotating guide bushing—or no guide bushing at all.

At IMTS, see two SwissNano machines displayed: the American flag patriotic decal SwissNano in the Tornos booth alongside the 100 year-old No. 20 1917 Swiss lathe. The other SwissNano will be showcased at Methods Machine Tools' booth.

Swiss GT 26: designed for the production of conventional and complex parts

Simple and ergonomic, the Swiss GT range offers easy access to all tool positions. It is easy to use and maintain due to its automatic lubrication unit, a chip tray and a high volume removable oil pan. Available in three diameters—32 mm for the Swiss GT 32, 25.4 mm for the Swiss GT 26 and 13 mm for the Swiss GT 13—the line is specifically designed to drive your successful production of long and short turned parts.

The Swiss GT 26 may be fitted with up to 40 tools, including 14 rotating tools. The Y-axis offers greatly increased machining capability in counter operation and allows some complex workpieces to be produced without reworking. In addition the B axis (option) appreciably extends the Swiss GT 26's capabilities, allowing it to tackle almost any part, and features a modular position that can incorporate either a fourth rotating drilling station or a true thread-whirling head.

Esco NM 6 Flexi: not your conventional lathe

Unlike conventional lathes, the Esco is based on a unique concept in which the material—coil stock or bar—does not rotate. Instead, the cutting tools mounted on the spinning tool head rotate around the material. This concept contributes to high performance and cost savings in the manufacture of small, medium and large lot size parts. With its new design and the use of two completely independent cross tables for the front and back machining units, the NM6 Flexi is flexible and highly productive. Two parts can be machined at the same time: one in the turning and front machining unit and the other positioned in the counter spindle via back and side operations. The NM6 Flexi features four turning tools on the rotating tool head and a choice of cutting tools or inserts, as well as flexibility of straightening due to the machine's electric drive and programming from the console. Straightening quality is improved through control of the rotational and traverse speed. Your operator's ease of use is ensured by simple front access and easy programming using the latest Fanuc Oi-TF control technologies.

Tornos No. 20, 1917 lathe: 100-years of Tornos' legacy showcased

Tornos' history begins in 1914 with construction of Swiss-type automatic lathes, in today's Moutier, Switzerland plant. The No. 20 machine from 1917, is just one treasure from our museum in Switzerland, and one piece that then launched the mass production of its successor, Tornos M10, and thereafter the first cam multi-spindle machine, the Tornos AS 14. Since then, Tornos has been revolutionizing history with the world's first CNC multi-spindle machine in 1988, CNC 632, then came the Tornos DECO and MultiDECO machines in 1996 with more than 10,000 of these machines installed globally and running today. The 2011 launch of the MultiSwiss 6x14 with cross-over concept bridging Swiss-type and multi-spindle lathe technologies, and now the launch of the multi-tasking SwissDECO are truly changing the future of bar turning. Envision your future with Tornos and let's see where the next 100 years takes us.

Industry 4.0 and the age of connectivity with TISIS

IMTS visitors will experience TISIS live, with Tornos service engineers analyzing the status of connected machines at IMTS. TISIS machine communication and programming software is your portal to Industry 4.0 and measuring production efficiencies. With TISIS, machine operators get more interactive means of interfacing and intervening to manage unexpected situations. This smart and advanced ISO code editor puts you on the fast track to truly effort-less programming and real-time process monitoring — even on your smartphone.

Available in both full and lite versions, TISIS knows your Tornos machine fleet and can help you decide which machine to use for a specific part and, while simultaneously enabling you to assess each machine's options, reducing collisions and related downtime, eliminating the possibility of errors, and ultimately enhancing your productivity, efficiency and quality. To date, more than 1,000 TISIS licenses have been sold worldwide.

Support when you need it: Tornos Service

Ensuring your productivity and return on your investment in Tornos is the main focus of Tornos Service. Discover the fast, competent and reliable support that Tornos Service delivers to its customers worldwide, with 14 Service centers strategically located throughout the Americas, Europe, and Asia. Tornos' services include: set-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 to expand your application capabilities and profitability.

Media contact: Rolph Lucassen, Head of Marketing Communications & Brand Management
Phone +41 32 494 44 44, lucassen.r@tornos.com

Technical media contact: Erika Szabo, Marketing Manager
Phone +1 630.812.2040, szabo.e@tornos.com

Company profile

Tornos Group is one of the global leaders for the development, production and distribution of Swiss-type automatic lathes and multi-spindle machines. The company's history dates back to 1880, placing Tornos at the beginning of Swiss-type lathe technology. The Group primarily manufactures CNC Swiss-type (sliding headstock) turning machines, multi-spindle machines, and machining centers for complex parts requiring high precision. Tornos is headquartered in Switzerland. Through a global sales and service network, unique solutions are supplied to customers in dedicated market segments such as Automotive, Medical and dental technology, Micromechanics, and Electronics. With its approximately 660 employees (FTEs), Tornos Group generated sales of CHF 178,8 million in 2017.