



Swiss GT 26 / Swiss GT 13

Your advanced machining solution.

Efficient, versatile and easy to use

Highly efficient production of even the most complex parts, thanks to unique B-axis technology, is a hallmark of Tornos' Swiss GT family of automatic turning machines.

Available in two diameters—25.4 mm for the Swiss GT 26 mm and 13 mm for the Swiss GT 13—the line is specifically designed to drive your successful production of long and short turned parts, making it a reliable, easy-to-use all-rounder that allows you to achieve measurable production improvements. The line's advanced technical features and efficient six-axis kinematics make it ideal for a variety of manufacturing challenges.

Spindle and counter-spindle offering the same power, torque and clamping forces to facilitate balancing of operations and

programming

Machine offers a high level of autonomy, different options are available to increase this autonomy when needed (Chip conveyors, oil mist extractor, part reception devices and bar feeders)

Modular machining area enabling rotating tools to be fitted according to the requirements of the workpiece



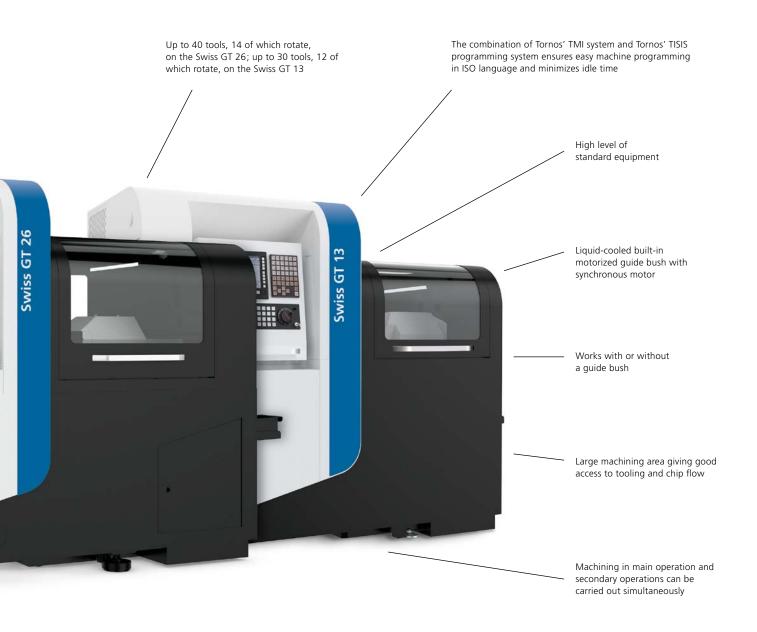
Swiss GT 26

Maximum diameter: 25.4 mm

Linear axes: 6C axes: 2B axis: option

Maximum number of tools: 40

Maximum number rotating tool: 14



Swiss GT 13

Maximum diameter: 13 mm

Linear axes: 6

C axes: 2

Maximum number of tools: 30

Maximum number rotating tool: 12





Swiss GT 26/6

Versatility to meet any challenge

With their very dense tooling capacity, these machines position you to tackle the market's most complex parts. Both machines feature a modular tooling position that puts you on the fast track to advanced operations, including thread whirling, polygonal milling and angular milling.

Extending an already impressive flexibility, the Swiss GT 26 can be equipped with a B axis, featuring a patented modular position. As you have come to expect from Tornos machines, both spindles feature the same power in main and counter operations. That means you can program your parts with greater freedom: heavy jobs no longer have to be machined in main operations.



Your leading-edge tooling answers for main operations



Polygon unit maximum 6,000 rpm Polygon tool Ø 80 mm



Your key tooling solutions for main and counter operations



Rotating spindle for milling (63 mm saw)

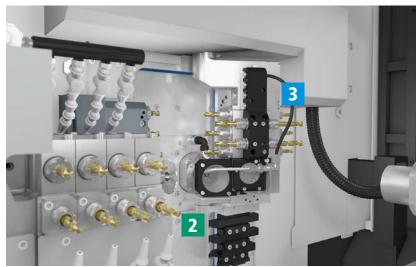


Your advanced tooling solutions for B axis



Double drilling/milling spindle for B axis





Swiss GT 26 with B axis: Machining of highly complex parts made easy



Thread-whirling unit Maximum 5,700 rpm Angle ± 25° Ø max. 10 mm



Double drilling/milling unit



Inclined drilling/milling device



ESX20 drilling/milling spindle (offset 6 mm)



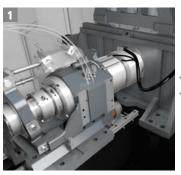
ESX20 drilling/milling spindle (offset 15 mm)

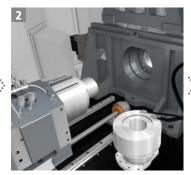


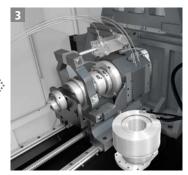
Slotting device



Thread-whirling unit for B axis







Support for guide bush, no disconnection of wiring

Taking your turning operation to the next level. Versatility, high performance in value-added operations, and ability to work with or without a guide bush make the Swiss GT 26 and Swiss GT 13 comprehensive bar turning solutions solutions. Your result: easy production of complex parts at a competitive price.

Built for speed

Everything goes fast. You achieve highest precision and gain precious seconds, thanks to the motorized guide bush supported by the Swiss GT's liquid-cooled, 15,000 rpm* motor spindle. The direct rotary drive guide bush provides high-speed, accurate machining to reduce your cycle time.

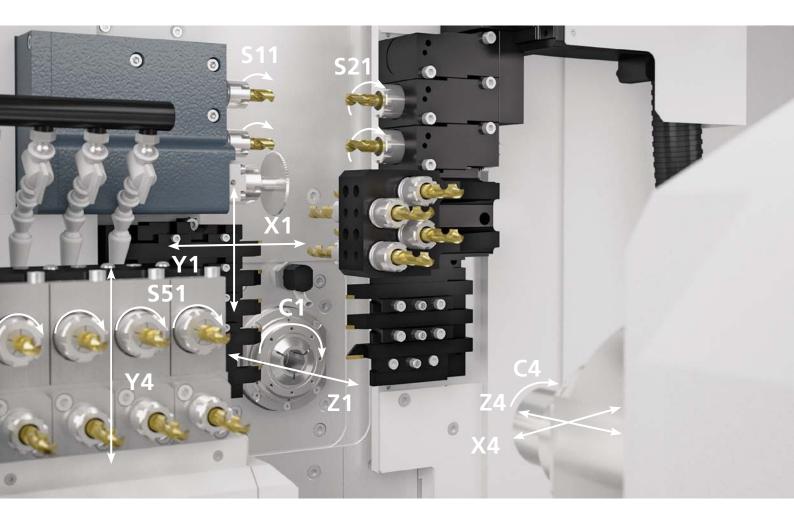
A complete solution to tackle every demand

The Swiss GT line is a comprehensive bar turning solution. For instance, each machine features a 20-bar pump with two independent filters. To boost your efficiency on short parts, the Swiss GTs can be converted into guide bushless machines in less than 15 minutes. A handy support for your guide bush can be found right next to the spindle—no cable disconnection required.

Engineered for best ergonomics

You enjoy a high level of autonomy with the Swiss GT family, thanks to our strong focus on ergonomics. The swarf container can be emptied while the machine is running, and the well-lighted and accessible machining area allows very fast setup change over. The numerical control on the swivel arm and the handy toolbox are additional advantages that can't be overlooked.

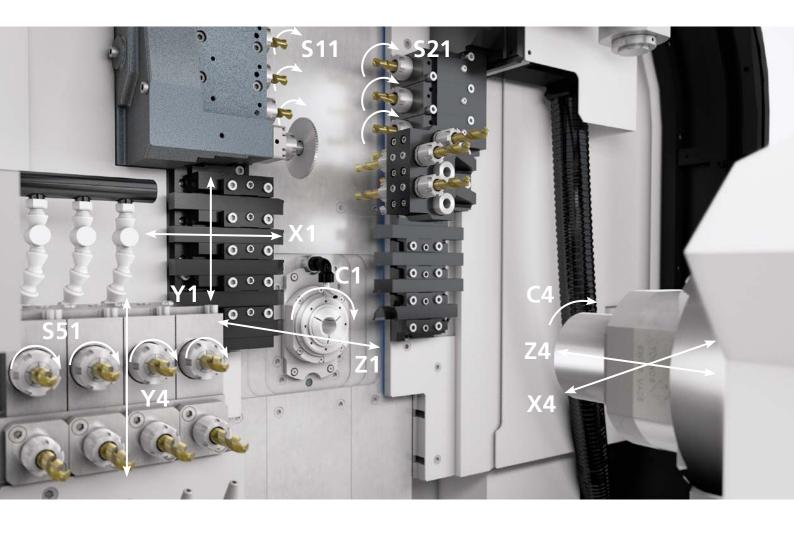
^{*}Swiss GT 13



Up to 30 tools, including 12 rotating tools

The Swiss GT 13 is equipped with three motors (two on the platten and one for back operation) to drive numerous rotating tools. A modular position is available to accommodate the addition of special attachments. The rotating tools on the rear platten and the counter operation station are easily exchangeable and compatible with the Swiss GT 26.

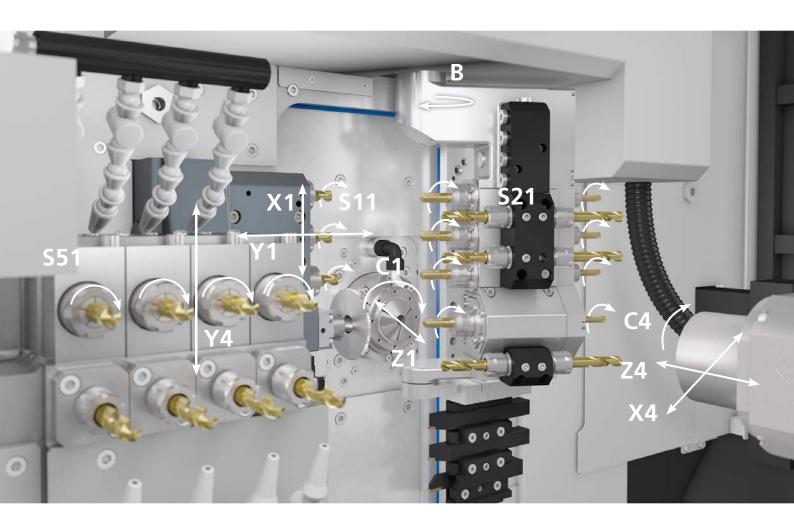
SWISS GT 26 EXCEPTIONAL MACHINING PERFORMANCE



Up to 40 tools, including 14 rotating tools

The Swiss GT 26, like the Swiss GT 13, is equipped with three motors (two on the platten and one for back operation) to drive numerous rotating tools. The position on the rear platten is modular, allowing the machine to receive special attachments.

The rotating tools on the rear platten and the counter operation station are easily exchangeable and compatible with Swiss GT 13.



Swiss GT 26 B: Machining of highly complex parts made easy

The innovative design of the Swiss GT 26 B accommodates 2 x 4 rotating spindles with a spindle speed of up to 9,000 rpm. This high-speed driven tool station incorporates a 1 kW spindle motor for machining difficult-to-cut materials and conducting heavy roughing processes. Furthermore, the kinematics of the new Swiss GT 26 B provide the facility for 2 x 4 fixed front tool stations, ensuring that virtually any angle can be indexed or processed by the numerical control (NC) programs.

Up to 36 tools, including 16 rotating tools

The Swiss GT 26 B features a B axis that includes up to four rotating tools in main operation and the same amount for working in counter operation. It includes a modular position that can accommodate a thread whirler. In addition four fixed positions or high-frequency spindles can be added to this device. The B axis appreciably extends the Swiss GT 26's capabilities, allowing it to tackle almost any part.

TISIS: PROGRAMMING AND COMMUNICATING WITH YOUR SWISS GT MACHINE

TISIS: Experience programming intelligence

In today's competitive global marketplace, there's not a moment to waste in meeting customers' demands. Our available TISIS communication and programming software puts you on the fast track to truly effortless programming and real-time process monitoring. TISIS knows your Tornos machine fleet and can help you decide which machine to use for a specific part—and that's not all. It enables you to assess each machine's options, reduces the risk of collisions and resulting stoppages, and improves your production efficiency.

TISIS is a smart and advanced ISO code editor that does the thinking for you. It knows your Tornos machine inventory, can help you write your code, and points out any coding errors.

It puts the code in color and can display your program in an attractive, readable Gantt diagram, making it easy for you to see the critical path and react quickly to optimize the process.

At the same time, TISIS takes the complexity out of process monitoring. Even from a remote location, you can keep an eye on the details of the machining process from your smartphone or tablet. The software also allows you to quickly transfer your programs by USB key or directly onto the machine. Your parts designs in various stages of completion can be stored with your program and your parts are easily retrieved from the database.



HIGH PRECISION



Stainless steel External diameter: 5 mm Workpiece length: 9 mm



Steel External diameter: 15 mm Workpiece length: 12 mm



Titanium External diameter: 4.58 mm Workpiece length: 10.8 mm



Brass External diameter: 5.6 mm Workpiece length: 30 mm



Stainless steel External diameter: 8 mm Workpiece length: 30 mm



Aluminium External diameter: 20 mm Workpiece length: 60 mm



Brass External diameter: 1.6 mm Workpiece length: 35 mm



Stainless steel External diameter: 8 mm Workpiece length: 110 mm



Stainless steel External diameter: 16 mm Workpiece length: 49 mm

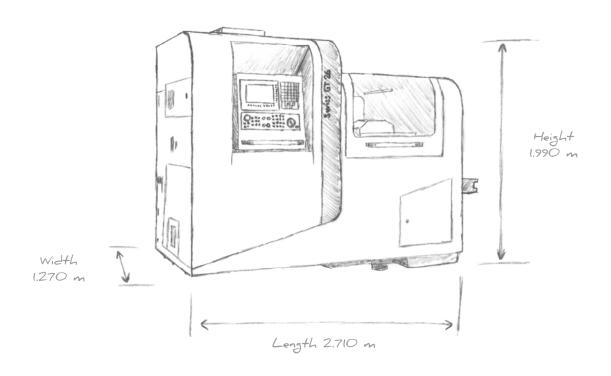
SWISS GT 26 TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATIONS	SWISS GT 26/6		SWISS GT 26 B	
	6	linear axes + 2 C-axis	6 linear axes + 2 C-axis + 1 B-axis	
	2 independent tool systems		2 independent tool systems	
Main spindle				
Max. bar capacity	mm	23 (25.4)	23 (25.4)	
Standard workpiece length with rotating guide bush	mm	220	220	
Spindle rotation speed	rpm	0-10,000	0-10,000	
Spindle power	kW	8.2 (10.5)	8.2 (10.5)	
Max. torque	Nm	26	26	
Platten				
Max. number of turning tools		10	10	
Turning tool section		16 x 16	16 x 16	
Number of frontal tools (op/cop)		5/(5)		
Positions for rotating tools (S11)		4	4	
Positions for rotating tools (S21 modular positions)		3		
Rotating tool speed of rotation	rpm	5000	5000	
Rotating tool power (S11/S21)	kW	0.75/1	0.75	
B-axis				
Number of rotating tool positions S21 (op/cop)			4/4	
Number of fix frontal tools (op / cop)			4	
HF spindle			Option	
Thread whirling device			Option	
Rotating tool speed of rotation	rpm		9000	
Rotating tool power (S11/S21)	kW		0.75/1	
Counter spindle				
Max. bar capacity	mm	25.4	25.4	
Insertion length of workpiece into spindle	mm	120	120	
Max standard output length of workpiece	mm	120	120	
Spindle rotation speed	rpm	0-10,000	0-10,000	
Spindle power	kW	8.2 (10.5)	8.2 (10.5)	
Max. torque	Nm	26	26	
Number of tool positions next to the counter spindle		2	2	
Counter operation				
Number of tool positions		8	8	
Positions for rotating tools		4	4	
Rotating tool speed of rotation	rpm	5000	5000	
Rotating tool power	kW	0.75	0.75	
Total number of tools		40	36	
Operation / counter-operation tool distribution		27/13	23/13	

SWISS GT 26 TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATIONS	SWISS GT 26/6	SWISS GT 26 B
	6 linear axes + 2 C-axis	6 linear axes + 2 C-axis + 1 B-axis
	2 independent tool systems	2 independent tool systems
BASIC MACHINE EQUIPMENT		
Rotating guide bush with integrated motor	Х	X
Machining without guide bush	Х	X
S21 rear platten rotating tool motor	Х	X
S11 front platten rotating tool motor	Х	X
S51 rotating tool motor in counter-operation	Х	X
C1 + C4 axes	Х	X
Interpolation in polar coordinates	Option	Option
Pneumatic workpiece ejector + oil cleaning of collet	Х	X
Automatic centralised lubrication cycle	Х	X
Beacon (4 colour)	Х	X
20 bar lubrication pump with manual selection filters	Х	X
Bar feeder interface	Х	X
Fire extinguisher interface	Х	X
TISIS programming software	Option	Option
NUMERICAL CONTROL		
Control type	Fanuc 31iB	Fanuc 31iB
Encoder / axis motor technique	Absolute serial	Absolute serial
Motor type (axes and guide bush)	Synchronous (AC)	Synchronous (AC)
Motor type (spindles)	Asynchronous (AC)	Asynchronous (AC)
Colour screen and mobile operator console	·	•
PROGRAMMING SOFTWARE		
ISO language code C, TMI		

SWISS GT 26 TECHNICAL CHARACTERISTICS



GENERAL SPECIFICATIONS		SWISS GT 26	SWISS GT 26 B
Max. length	mm	2710	2710
Max. width	mm	1270	1270
Height	mm	1990	1990
Weight	kg	3550	3550
Cutting oil tray capacity	[200	200
Coolant pump power	kW	0.44	0.44
Colours RAL 9006 grey, RAL 9011 black			
CE / CEM certified			

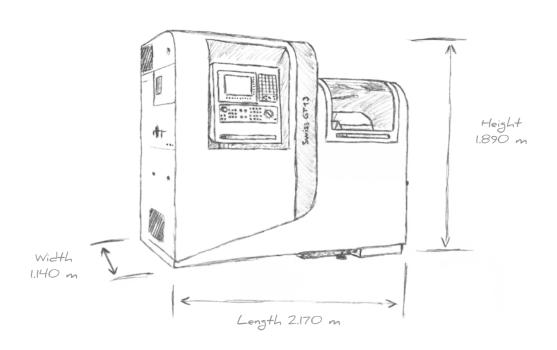
SWISS GT 13 TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATIONS		SWISS GT 13/6
		6 linear axes + 2 C-axis
		2 independent tool systems
Main spindle		
Max. bar capacity	mm	10 (13)
Standard workpiece length with rotating guide bush	mm	190
Spindle rotation speed	rpm	0-15,000
Spindle power	kW	4.0 (5.0)
Torque	Nm	12
Platten		
Max. number of turning tools		8
Turning tool section		12 x 12
Number of frontal tools (op / cop)		4/4
Positions for rotating tools (S11)		3
Positions for rotating tools (S21 modular positions)		2
Rotating tool speed of rotation	rpm	6000 (10,000)
Rotating tool power (\$11/\$21)	kW	1
Counter spindle		
Max. bar capacity	mm	13
Insertion length of workpiece into spindle	mm	80
Max standard output length of workpiece	mm	90
Spindle rotation speed	rpm	0-15,000
Spindle power	kW	4.0 (5.0)
Max. constant torque	Nm	10/26
Counter operation		
Number of tool positions		8
Positions for rotating tools		4
Rotating tool speed of rotation	rpm	6000
Rotating tool power	kW	0.75
Total number of tools		30
Operation / counter-operation tool distribution		18/12
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SWISS GT 13 TECHNICAL CHARACTERISTICS

TECHNICAL SPECIFICATIONS	SWISS GT 13/6
	6 linear axes + 2 C-axis
	2 independent tool systems
BASIC MACHINE EQUIPMENT	
Rotating guide bush with integrated motor	X
Machining without guide bush	X
S21 rear platten rotating tool motor	X
S11 front platten rotating tool motor	Х
S51 rotating tool motor in counter-operation	Х
C1 + C4 axes	X
Interpolation in polar coordinates	Option
Pneumatic workpiece ejector + oil cleaning of collet	X
Automatic centralised lubrication cycle	X
Beacon (4 colour)	X
20 bar lubrication pump with manual selection filters	X
Bar feeder interface	X
Fire extinguisher interface	X
TISIS programming software	Option
NUMERICAL CONTROL	
Control type	Fanuc 31iB
Encoder / axis motor technique	Absolute serial
Motor type (axes and guide bush)	Synchronous (AC)
Motor type (spindles)	Asynchronous (AC)
Colour screen and mobile operator console	
PROGRAMMING SOFTWARE	
ISO language code C, TMI	
Control type Encoder / axis motor technique Motor type (axes and guide bush) Motor type (spindles) Colour screen and mobile operator console PROGRAMMING SOFTWARE	Absolute Synchronous

SWISS GT 13 TECHNICAL CHARACTERISTICS



	SWISS GT 13
mm	2170
mm	1140
mm	1890
kg	2800
I	200
kW	0.44
	mm mm kg I

TORNOS SERVICE

Backed by both geographical proximity to customers and a keen understanding of their processes, applications and market challenges, Tornos Service delivers unparalleled continuity of support: 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. Buying a Tornos machine is much more than a business transaction. It is your investment in the future. Tornos Service thrives worldwide by securing the predictably high production capability of products carrying the Tornos name. Situated close to you, as demonstrated by the 12 Tornos Service Centers strategically located across Europe, Asia, and the Americas, Tornos Service offers a full continuum of authoritative support for you and your Tornos machines, and encompasses the innovation, reliability and attention to detail expected of a premier Swiss brand. And it is all backed by a 100-year legacy of expertise and in-depth understanding of customers' processes, applications and challenges across a wide range of industrial segments, including automotive, medical, electronics and connections, and micromechanics.

Start-up assistance

From the first feasibility tests prior to purchase, you are in good hands with Tornos Service. In our state-of-the-art Techno Centers, expert application engineers support you with tests to gauge the feasibility of machining processes and applications. With start-up assistance, you are secure in the knowledge that you will never be left alone to deal with a brand new machine.

Expert training and coaching

Engineered for intuitive and easy use, Tornos machines offer a vast range of options and enable myriad processes. Expert training and coaching help your employees become programming, handling and maintenance experts, adding more value to your processes, applications and products.







Hotline support

Wherever you are in the world, highly qualified specialists who speak your language and understand your processes are just a phone call away to quickly support you with handling and programming solutions.

On-site support

Fast, efficient on-site operations and preventive maintenance ensure the continuous high performance of your Tornos machines. Regular scheduled preventive maintenance can help you avoid 70 percent of machine breakdowns and keep you on the path to productivity.

Certified original spare parts

Rapid, reliable, worldwide delivery of certified original Tornos spare parts is a specialty of Tornos Service. Regardless of the age of the your Tornos machine, we stock the essential certified spare parts to keep the machine running at peak performance.

Machine overhauls

Tornos machines inspire confidence, so it's no surprise that many customers turn to Tornos for complete overhaul of their workhorse machines. Tornos overhaul service returns the machines in good-as-new condition, appreciably extending their longevity.

Options, upgrades and X-change Modules

To help you achieve your manufacturing, productivity and quality objectives, our experts collaborate with you to manage complex machining processes, develop software features for machining complex shapes, design special equipment, and tailor peripherals to customers' needs. Tornos' X-change Modules expand your application capabilities and profitability.



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Conforms to the European CE/CEM Safety Standards

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