CIMT trade show in Beijing

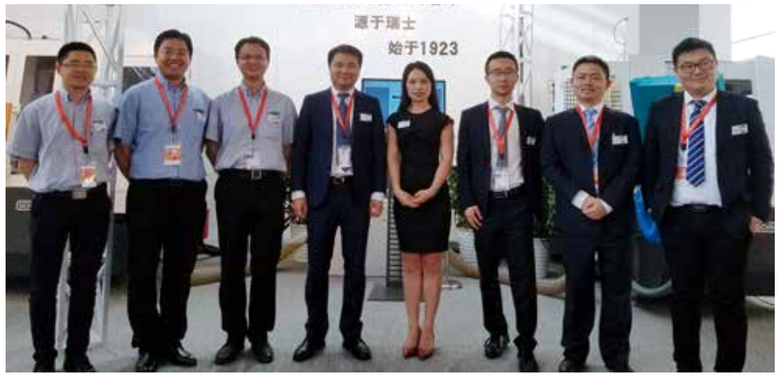
International date with the who's who of the machine tool industry in the Far East. The 2017 CIMT in April in China is one of the most important international trade shows. The 14th China International Machine Tool Show in Beijing attracted almost 130,000 visitors who were eager to see the products and services offered from a total of 1554 exhibitors. The international nature of this event was confirmed with 774 of the exhibitors being foreign companies from 28 different countries. The trade show is one of the four largest in the world for the manufacturing sector.

Before the trade show opened its doors on Monday the 17th April to attending visitors, the exhibitors had already been busy arranging their booth starting Wednesday the previous week. Later The perfectly illuminated and highly polished high-tech products on display where subjected to a rather rigorous exhibit work schedule. The dark and gloomy exhibit halls during set up are no indication of what's ahead and how nice and beautiful the halls will look once the doors are opened to attendees. The huge and smoke billowing trucks, forklifts and other carts where hauling the valuable freight to the assigned destination and booth. Only the large open doors would allow for the smoke-filled hall to clear the air and allow for some ventilation in the otherwise toxic environment.

SCHNEEBERGER had occupied an area of almost 80 m² in the Exhibit Hall W1 and with energy and enthusiasm were present from day 1 of the move in to supervise and guarantee a smooth set up of all the machinery, exhibit, furniture and materials as well as the clean-up and removal of the shipping material. Working with tremendous commitment to create a pleasant and comfortable atmosphere for the visitors, some had travelled a considerable distance to attend, as they would expect from such a renowned trade show right from the first day of opening the doors.

On the very first day of the trade show it was already clear that the event was going to be a complete success. The visitors streamed into the halls in impressive numbers and the educated professionals arrived with concrete projects, questions and concerns. We presented a ***norma***NGC, a ***sirius***NGS and the ***Galileo*** measuring machine. We were able to make a lot of new contacts throughout the complete week and of course where able to welcome our many old friends and customers to our booth.

The SCHNEEBERGER sales team and technicians proudly presented both new and well-proven products from SCHNEEBERGER to the interested audience. The SCHNEEBERGER team was highly motivated and thoroughly enjoy the whole week despite the high stress environment that such a trade show can bring. Thank you very much!



Trade show calendar 2017

EMO	Hanover	Germany	18. – 23.09.2017

www.schneeberger.swiss

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newsLETTER
July 2017

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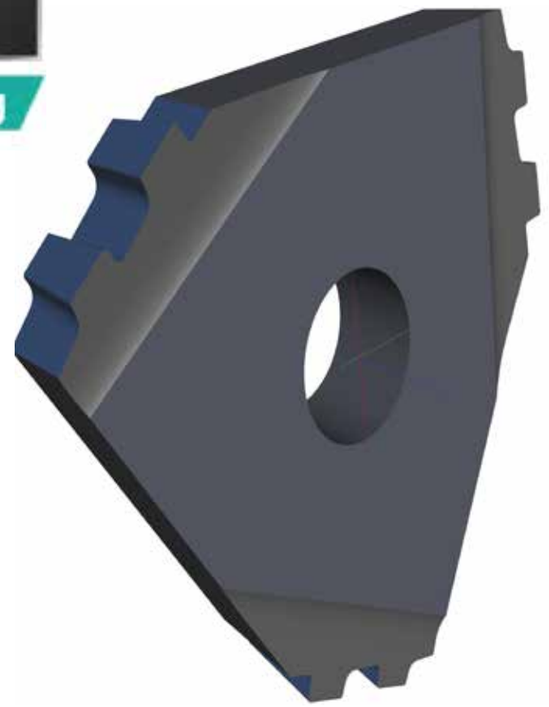


Inserts – authentic down to the last detail

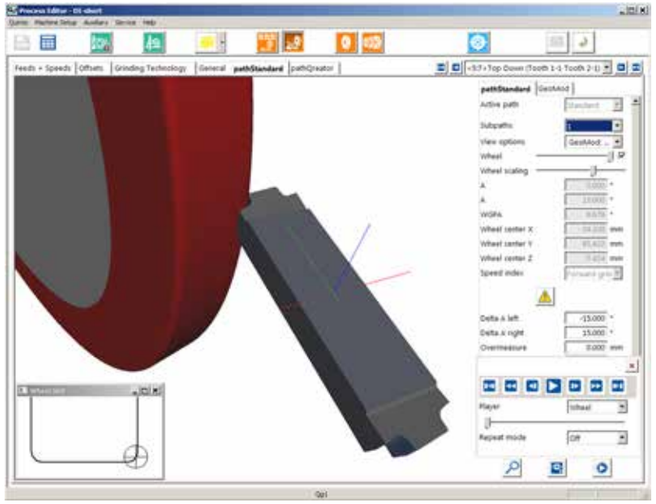
By now it is public knowledge that the new ***Qg1*** is working entirely in a 3D format. Even the inserts are now modelled in 3D format and the calculated grinding processes are based on our ***geo***MOD.

The insert, including the profile and the blank are displayed in solid form. In doing so, all shapes adhere to ISO 1832 Norm. Regardless of forms such as C, D, T, S, V, W or even insert style drill points. ***Qg1*** is capable of this. Before the grinding starts, the inserts are displayed in such a realistic manner that it looks like a finished part and can be rotated, zoomed and moved on screen.

The advantage of ***geo***MOD based calculations are particularly evident here. On the one hand, the necessary profile distortion due to any top or shear angle can be very precisely determined and automatically compensated for. The result is a perfectly accurate profile shape, with any given geometry. On certain insert types, the clearance angle can be rendered in either on the individual insert or in the form of the mounted tool in the tool holder or cutter head for a better and more visual understanding of the finished tool. The in-space rendition of tools offers advantages to see the process and operation of the machine. The influence of the top angle or changes in the clearance angle when mounted on cutter heads are immediately visible. This accelerates the time to manufacture a good part without unnecessary trial and error. It is a great training tool for beginners who have the ambition to learn CNC in-

sert grinding or intend to enter this profession.

The grinding processes are based on the geometrical model and require almost no interaction from the user. The individual processes adapt to the geometry of the tool, as well as automatically adjust themselves according tool specific requirements. The software offers either grinding the profile in a one path mode



Maximum flexibility with Qreator
Individual clearance angle and grinding path possible for each profile segment

from left to right or vs and in the top down operation where the grinding path can alternate from either side. For example, with pocket-shaped profiles, the best overlap point of the path is automatically calculated where the wheel reverses.

Compact and intelligent automation solutions add value such as position detection, sorting, cleaning in the ultrasonic bath, brushing off or laser marking complete the insert range.

AFAR circular saws, Sesto, Italy

AFAR is a leading manufacturer of carbide circular saws. Maurizio Bassetti formed the company in 1982. The product range included cutter heads and circular saws for the watchmaking and jewellery industries of the region, as well as for the optical and textiles industries.

In 1983 the young company purchased the first CNC universal grinding machine in Italy. To this day, this pioneering spirit is still alive and well in the company. In fact in 2016, AFAR became the first customer in the world to invest in the latest member of the SCHNEEBERGER grinding machine family, the ***aries***NGP.

This compact and powerful machine fits perfectly into the range of tools used by AFAR today for the manufacturing of carbide circular saws with diameters from 8 to 300 mm with a thickness of 0.05 to 60 mm. The company has prospered and has expanded its customer base into new sectors such as the electrical, automotive as well as general machinery industries.

With his company's production concept, Maurizio Bassetti relies on a solid technical base and therefor consistently requires quality and precision. In 2006 this led to a close relationship with SCHNEEBERGER and the acquisition of the first 4-axis NC grinding machine, of the type the ***aries***ENP4.

In the meantime, AFAR has been successful internationally as well, active in the design of tools requiring more challenging cutting geometries for higher performance. The company now employs 5-axis technology to meet these complex new tool geometries. The ***aries***NGP presented at GrindTech in March 2016 precisely met the needs of AFAR. Precision and robust quality paired with a very small footprint design as well as intuitive programming are the characteristics that attracted Maurizio to this machine.

And, the machine proved to be up to those demands. Circular saws with 9 different cutting edge geometries are manufactured on this machine with great flexibility, high quality and shortest production times.

AFAR company headquarters in Sesto Calende, Lombardy, Italy

NTTE - New Tool Toogle Extractor in Qg1

With the new CAD/CAM grinding software ***Qg1*** SCHNEEBERGER has implemented an ingenious and simple function for rapidly programming standard tools. Strictly speaking, no programming has to be done. After selecting the tool type, the ***NTTE*** module requires only a few key information about the tool and it is ready to start with the grinding.

The selection of all geometries is based on the extensive and included tool database. The grinding processes are automatically adjusted to the available wheel.

An absolute minimum of entries are required for the re-grinding of drill bits. ***Qg1*** manages with just three parameters: Diameter – direction of rotation – drill-tip angle, and the machine is ready to grind!

The ***TOOGLE*** search engine makes finding saved tools an easy experience. The desired tool can be quickly located and activated thanks to the search criterias.

The CAD/CAM grinding software

Perfect digital definition of the workpiece geometry in ***geo***MOD, integrated search engine **TOOGLE**
Full freedom when generating the clearance angle and grinding path with ***path***QREATOR

Qg1
CAD CAM grinding