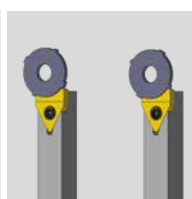


NEWS.

THE SCHWANOG NEWS FOR CUSTOMERS,
EMPLOYEES, AND FRIENDS OF THE COMPANY.

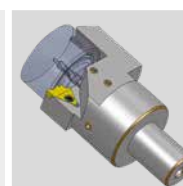
PAGE
02

SAFA relies on Schwanog solutions:
As an expert in turned and milled parts, the medium-sized company SAFA from Arnsberg in Sauerland has established itself as a high-quality manufacturer...



PAGE
04

The 3 in 1 Multi-tool:
The challenge was to further reduce the unit costs for an already very well optimized part...



The New Schwanog MSLD System

**HIGHLY PRODUCTIVE,
MODULAR TOOLING SYSTEM
FOR SWISS-TYPE LATHES!**

PAGE
03



EDITORIAL:

Dear business partners,

The year is progressing quickly and despite many global uncertainties, the markets are surprisingly robust. This makes us confident, and thus we enter the second half of 2023 strengthened and positive.

With our new MSLD system, we are now offering our swiss-lathe customers advantages in every respect – read our report on page 3 of this issue. We are sure that we will inspire you just as much as our longstanding customer SAFA, who we portray on page 2, with our broaching tools.

New employees are extremely important for us to generate further growth and so we are happy to welcome Marsel Bebo and Tobias Etter, two experienced professionals for our teams in the USA and Germany.

In Italy, too, we are focusing on winning new customers and increasing productivity, where we have created such conditions with a new grinding machine.

We would also like to point out our product story on page 4, in which we present our multi tool that combines three processing steps in one.

Use our solutions to increase your productivity – our team is looking forward to your challenges!

Clemens Güntert
Managing Director

SCHWANOG

Schwanog broaching tools instead of end mills:

SAFA RELIES ON SCHWANOG SOLUTIONS FOR UNIT COST REDUCTION!

As a specialist in turned and milled parts, the medium-sized company SAFA from Arnsberg in Sauerland has established itself as a high-quality manufacturer. It is the wide range of precision parts made of steel, stainless steel, aluminum, brass, gunmetal, and copper that makes SAFA an important partner for its customers. These come primarily from sectors such as fittings, heating, plumbing, automotive, hydraulics and pneumatics, and measurement and control technology. Mechanical and plant engineering, electrical engineering, and medical technology are also important target groups for SAFA.

For the two managing directors Florian Riese and Sebastian Schelte, the secret of SAFA's success lies in the combination of material diversity and customers in all important industry sectors – paired with the highest quality, speed, latest production technology, and component assembly. To optimize production costs, the company has always been open to new ideas and tooling solutions.

SAFA and Schwanog have been working closely together since 2009

The technology openness of SAFA already led to a close cooperation with Schwanog in 2009, which is characterized by success for both partners. Schwanog tooling solutions for broaching, thread whirling, and form drilling are used, which significantly reduce the part costs for SAFA.

Schwanog broaching tool replaces end mills

The best example of cooperation is the current project for a brass coupling. The contour of the coupling was previously machined with an end mill, which, in addition to the relatively high machining effort due to the small part dimensions, also led to the end mill occasionally breaking out.

Schwanog account manager Joerg Hoenle was asked by SAFA project manager and managing director Florian Riese to find a solution that would noticeably improve stability and unit costs. The initial situation was analyzed by the Schwanog technical team, and the use of a broaching tool was recommended.

Time saving of 35 seconds per part inspires SAFA

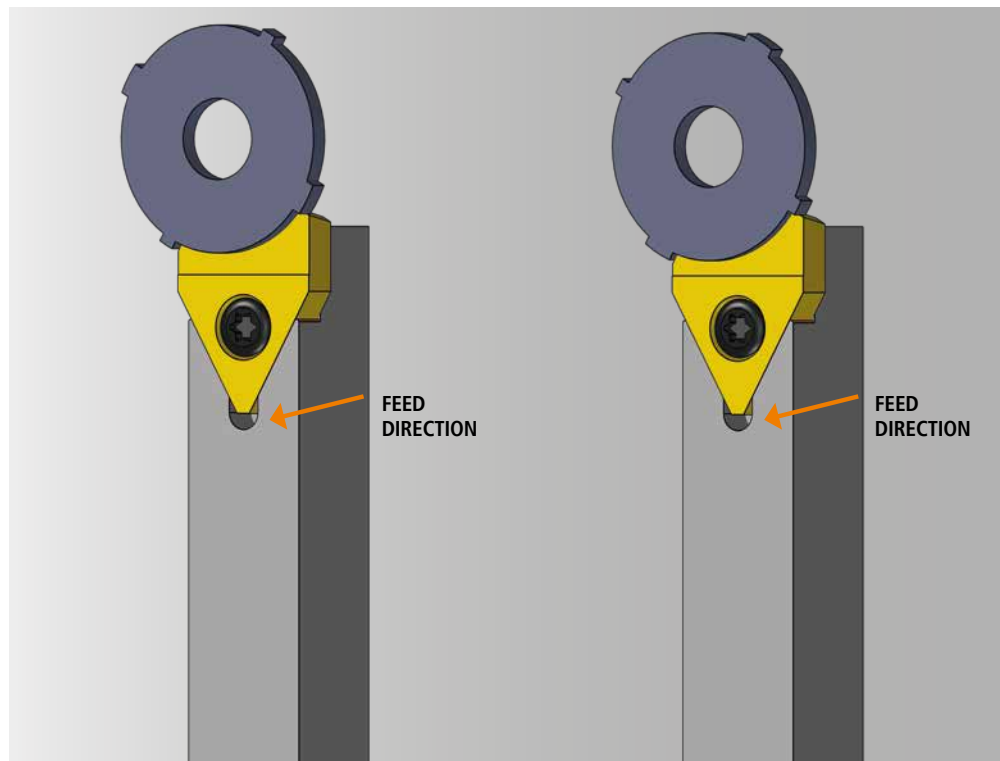
The result delighted the production team around project manager Florian Riese, because the time saving of 35 seconds per part means a time saving of 48 hours per order with a batch size of 5,000 parts.

With the use of the Schwanog broaching tool, four advantages could be combined:

- ❑ Reduction of machining time by 35 seconds per part and 48 hours per order
- ❑ Stable production without tool breakout
- ❑ Unmanned production possible
- ❑ First-class surface quality

Switching to the Schwanog broaching tool ensures SAFA's competitiveness and opens up perspectives for new customers and projects, especially in the technology markets with competitive unit prices.

Both companies have agreed to continue to analyze other parts in the future and to replace them with Schwanog solutions wherever possible.



Schwanog insertable broach 1 and Schwanog insertable broach 2



SAFA Managing Director Florian Riese (left) and Schwanog account manager Joerg Hoenle (right)

Florian Riese explains the results as follows:

'Mr. Hoenle and the entire Schwanog team have developed solutions for us that generate added value in terms of unit cost reduction, surface quality, and tool life'.

Welcome to the Team:

MARSEL BEBO STRENGTHENS SCHWANOG PRODUCTION IN THE USA!



happy father of 2 sons. Before joining Schwanog in January 2023, Marsel worked as a sheet metal worker and machine operator on CNC milling machines and turning centers.

Marsel Bebo is a real history buff and, in addition to his native Albanian, speaks English, Spanish and French.

We wish Marsel lots of success at Schwanog.

Business is excellent in the USA and requires reinforcement in manufacturing. We are very pleased that with Marsel Bebo we have not only been able to gain an experienced expert, but also a very likeable employee.

Marsel Bebo is 33 years old, was born in Albania and moved to the United States at a young age, where he grew up in New York. Today Marsel lives in Aurora, Illinois as the

Successful reinforcement for our design team:

TOBIAS ETTER SHINES THROUGH HIS BROAD KNOW-HOW!



This was followed by three years as a designer, head of milling department, instructor, test technician and service technician in mechanical engineering and the watchmaking industry in the high-price segment. From 2021 to 2022 Tobias worked as a designer in the field of conveyor technology and protective fences. Tobias is currently studying part-time to become a technical business manager, which will be completed by the end of 2023.

Tobias Etter loves his work at Schwanog and the new challenges that come with it every day as a designer. In his spare time, he likes to play soccer, ride motorbikes, spending time in nature and watch American football with a passion.

We wish Tobias continued enjoyment of his job at Schwanog!

Even in times when there is a shortage of skilled workers, we always manage to land real experts in their field. The best example is Tobias Etter, who has strengthened our design team since July 2022.

After his initial experience as a milling machine setter from 2013 to 2016, he studied for the next two years and graduated as a production technician at the FTS.

The New Schwanog MSLD System:

HIGHLY PRODUCTIVE, MODULAR TOOLING SYSTEM FOR SWISS-TYPE LATHES!

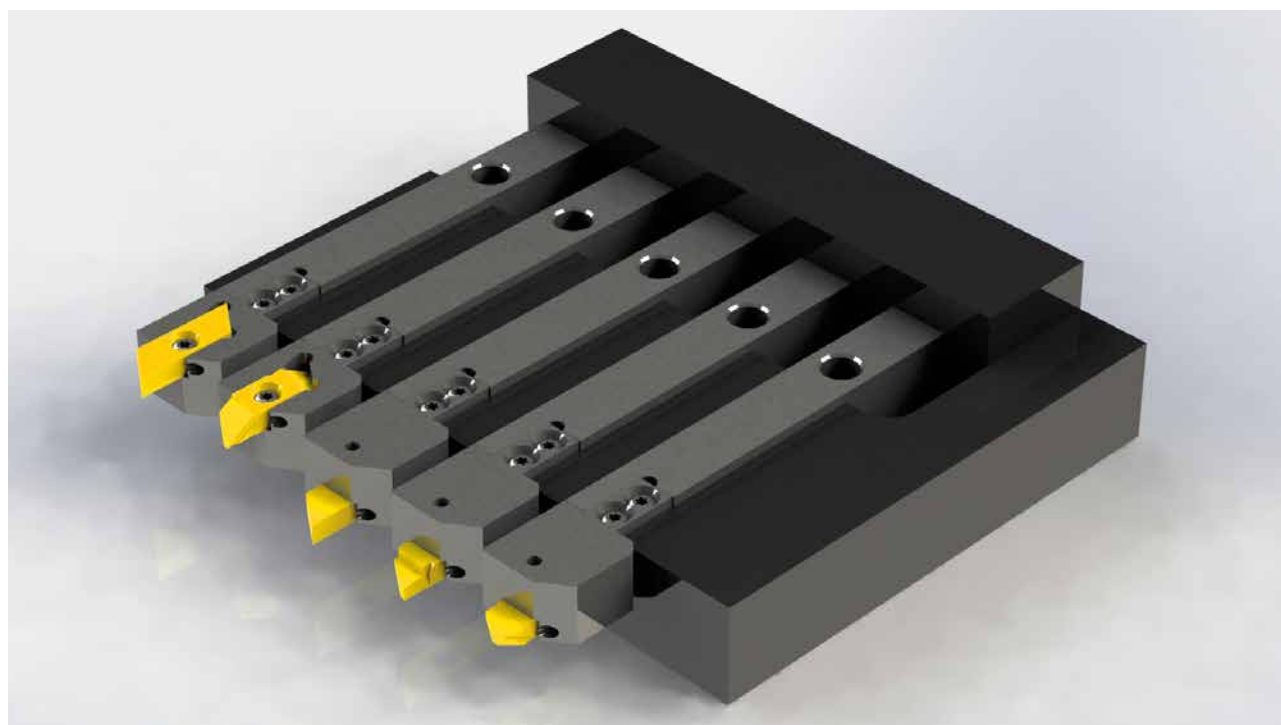
With the MSLD system, Schwanog is setting new standards in swiss-turning technology and once again proves how advantages in handling, tool life, and chip flow can be achieved with solution-oriented development.

The MSLD system

Limited space inside swiss-type lathes with sliding heads often present a problem for quick and safe tool changeovers, thus we have developed a two-piece, compact tool changing system which consist of cartridges bolted to the side of the base holder. Different standardized cartridges for (form) grooving, longitudinal turning, and parting-off can be used on the base holder, which is flexibly adapted to the existing machine conditions.

Both left and right-hand cartridges can be applied in the same base holder, thus the cutting tool can be positioned directly at the guide bushing or pick-off spindle. The system is available with or without internal coolant supply.

The MSLD system is available immediately and offers excellent opportunities for production optimization on swiss- type lathes. The Schwanog sales team is always available for further details or questions.



Baseplate equipped with Schwanog MSLD tooling system

System-Highlights:

- ❑ Internal coolant supply directly to the cutting edge
- ❑ Coolant connections on left-hand side and rear or designed machine specific
- ❑ Superior flexibility due to standardized interchangeable cartridges
- ❑ Cutting tool can be positioned directly at guide bushing or pick-off spindle
- ❑ User-friendly and simple tool changeover in the machine
- ❑ Prolonged tool life due to targeted coolant supply
- ❑ Improved chip flow
- ❑ Short, compact tool and cartridge lengths



Base holder with interchangeable cartridges

Capacity Expansion at UBR Italy:

NEW GRINDING MACHINE INSTALLED AT UBR ITALY!

The Italian market still offers enormous potential for Schwanog solutions. The intensive work with our partner UBR is bearing fruit and with the delivery of a new grinding machine, the next step in the expansion and modernization of production could be successfully completed.

The new grinding machine makes us even more efficient in Italy and sets an example in the direction of acquiring new customers and reducing delivery times for existing customers. The machine is already installed in the new facility and works smoothly. The complete move from UBR will take place during the summer holidays so that there are no bottlenecks or delivery problems.

We wish the UBR team lots of success and look forward to expanding our cooperation!



Delivery and installation of the grinding machine

Solid carbide twist drill, turning tool and face grooving:

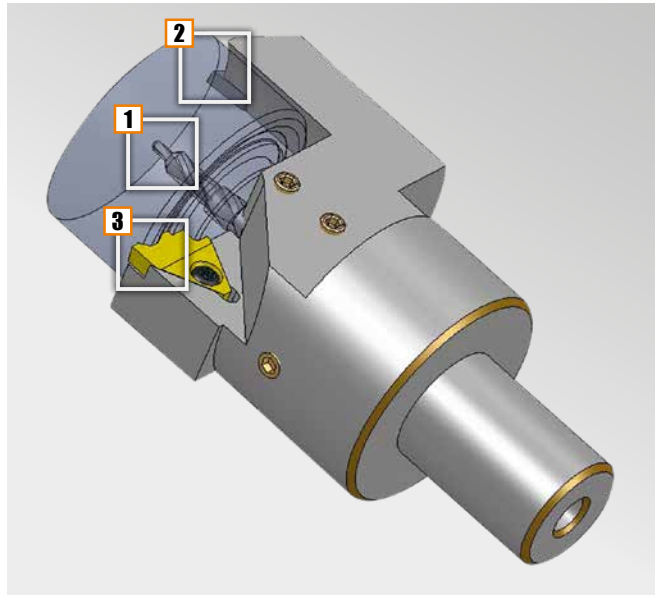
THE 3 IN 1 MULTI TOOL!

Our customer presented us with a special challenge that we solved with a multi-tool.

It was necessary to further reduce the unit costs for an already very well optimized part to secure a significant series order for our customer. And the result is impressive, because our technicians have developed a special tool that combines three processing steps in one:

- 1. Solid carbide twist drill
- 2. Turning tool
- 3. Face grooving with PWP insert

If you too are faced with the task of reducing costs and increasing profits, simply give us a call or send us your part drawing.



The Schwanog Multi-tool

Some advantages:

- Absolutely process safe
- No tool change required
- Significant, double-digit unit cost reduction
- Reduced testing effort

Form Drilling with Schwanog:

WEBINAR REVIEW!



Ralf Lang and Julia Mauch at the Webinar

Form drilling is one of the most widely used applications in the machining of precision parts and is therefore of great importance for increasing productivity for our customers.

In our webinar on April 4, 2023, we explained the individual drilling methods, presented the Schwanog drilling systems and presented the best practical examples that lead to significant cost reductions. Our expert Ralf Lang also showed which drilling applications use insertable drills or solid carbide form drills.

We would like to thank all participants of our webinar for the high participation and the interesting questions as well as the discussions afterwards.

You can look forward to the next Schwanog webinar in fall 2023, which we will inform you about in a timely manner.

Schwanog trade show team on tour:

REVIEW AND OUTLOOK!

Trade shows are among the most important marketing channels for us, as they offer personal dialogue with our customers all over the world. In this way we can absorb new impulses and requirements and present our solutions directly.

Trade show review PMTS, EASTEC, FITMA

The USA trade shows PMTS in Cleveland, Ohio, EASTEC in West Springfield, Massachusetts as well as the FITMA in Mexico City, Mexico attracted many visitors and great interest in our solutions. In addition to many discussions with long-standing customers, we were also able to win numerous new customers and convince them of Schwanog.



Eastec, Michigan



PMTS, Cleveland

Trade show Outlook

EMO, CMTS and SOUTHTEC

Visit us at the next trade shows and find out about our tooling solutions, such as the new MSLD system for swiss-type lathes.

EMO

September 18–23, 2023

Hannover, Germany
Hall 5, Booth B46



CMTS Canadian Manufacturing Technology Show

September 25–28, 2023

Toronto, Canada, Congress Center,
Hall J, Booth 2236



SOUTHTEC

October 24–26, 2023

Greenville, South,
Carolina, USA, Hall 1, Booth 1441



SCHWANOG

75 years

Schwanog - Siegfried Güntert GmbH
Niedereschacher Str. 36 · D-78052 Villingen-Schwenningen
Tel. +49 (0) 77 21 / 94 89-0 · Fax +49 (0) 77 21 / 94 89-99
info@schwanog.com · www.schwanog.com