



**Dear Business Partners,**

We are happy to provide you with the first positive signals in this second edition of this year's Schwanog News. The economical downward trend seems to be bottoming out and anyone who demonstrated sufficient perseverance can now start into the next phase full of energy. Now is the time to take full advantage of the productivity potential.

Therefore we are introducing today the most interesting product news offering you additional perspectives for your production needs.

Form drilling was perfected due to the PWP insertable form tool system and puts an end to high machine downtimes and the new process for the manufacture of bone screws which is just as fascinating as it is effective. Due to three different solutions we can cover now every manufacturing requirement.

Schwanog form tools living up to their expectations even in Poland. A leading company in the metalworking field optimized its production times on its Index G200 CNC machines and increased its productivity significantly.

We successfully presented our solutions in the USA at the PMTS 2009 in Columbus, Ohio and in France at the MEDTEC in Besancon and were able to gain new and important contacts.

I hope we could give you many new impulses while reading this edition and hope you have a successful day!

Sincerely Yours, Clemens Güntert

**Contents:**

- Form drilling with Schwanog:**  
Flexible, efficient and technically demanding! **Page 1**
- Production of bone screws:**  
The perfect solution for every manufacturing strategy! **Page 2**
- New success story:**  
BERGER in Poland reduces costs with Schwanog! **Page 3**
- Schwanog quality worldwide:**  
Successful shows in the USA and France! **Page 4**
- New Schwanog data sheets!**  
The new addition - DCI Thread Whirling System! **Page 4**

**Form drilling with the Schwanog PWP insertable form tool system:  
Flexible, efficient and technically demanding!**

Schwanog examines its systems constantly, in order to incorporate the latest developments and findings and has optimized form drilling this way.

Form drilling is playing an important role, especially when applied to complex turned parts. As far as wear is concerned, it was until now necessary to replace the entire (solid carbide) form drill, which required a lot of time and incurred vast costs due to high machine downtimes.

Schwanog's form drill system consists of a coolant through shank holder and an inversely ground

and pointed insert which can be ground to any given geometry. The insertable inserts are easily and quickly interchanged which eliminates the unnecessary high set-up times, resulting in cost savings of up to 60 %. Schwanog's form drill system decisively increases tool life as a result of unsurpassed quality of the insertable form tool.

Take a look at our 3D animated film in regard to form drilling using the PWP insertable form drill system at our website:

**www.schwanog.com.**  
(Click on "Products" scroll down to "Form Drilling")



Highly efficient manufacturing of bone screws:

## The perfect solution for every manufacturing strategy!

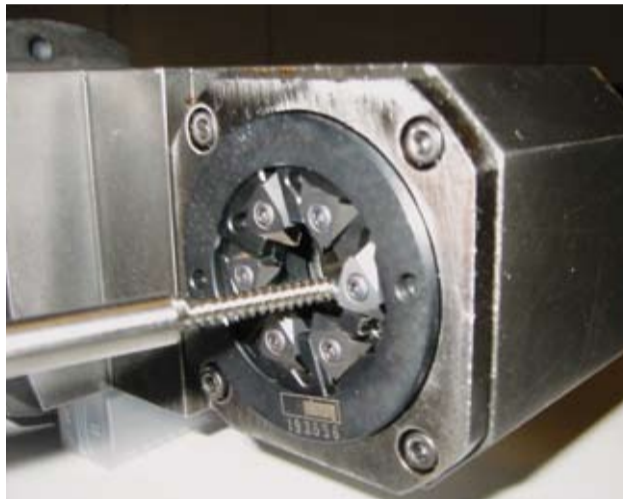
**Effective immediately, Schwanog offers three technically exciting solutions for the highly efficient manufacturing of external threads on bone screws.**

Schwanog has been setting productivity standards for thread whirling for many years. With the introduction of our new DCI whirling system, 12 double-sided inserts can now be applied to the cutter ring due to the smaller new parallelogram style insert. The advantage is an increased feed rate of up to

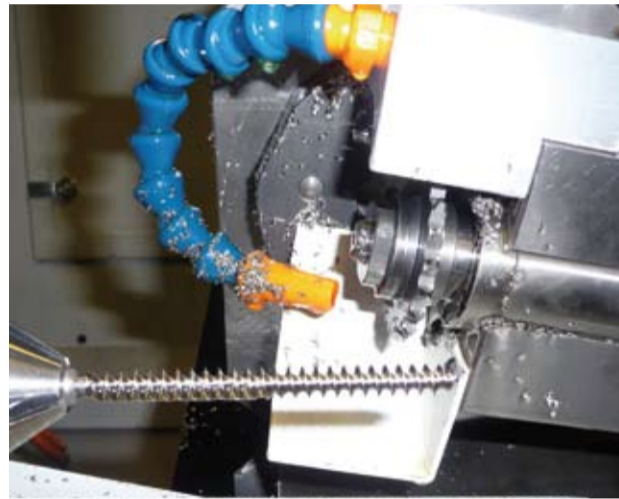
100% per tooth which drastically reduces part cycle times, prolonged tool life and superior surface finishes. The use of the DCI system requires holding the chip load volume to a minimum.

Thread whirling with Schwanog's insertable/indexable 6 insert (WEP System), 9 or 12 insert (DCI-System) offers significant cost reductions due to quick tool changeovers when compared to the original 3 circular (button) style insert system.

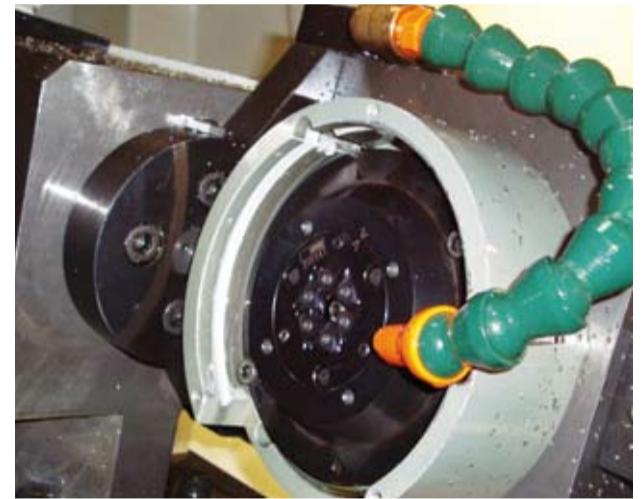
Most whirling attachments can be equipped with Schwanog's 3 piece whirling assembly. This modular configuration provides fastest tool changeovers between the DCI and WEP whirling systems. Once the Schwanog mount is applied to the whirling attachment either cutter ring, WEP (6) or DCI (9 or 12), can be inserted to the mount and is locked down by the tension ring.



Thread whirling on swiss-type automatic lathes.



Thread milling on thread milling machines.



Thread whirling on thread whirling machines.



Bone screws

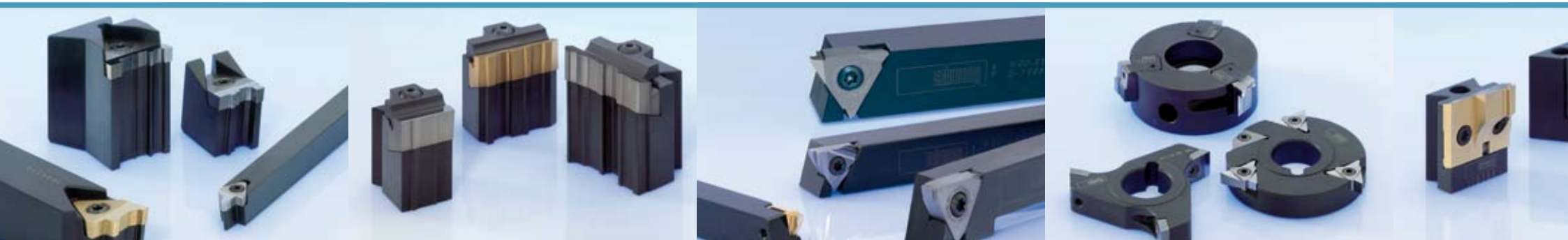
Production on swiss-type automatic lathes provides besides the whirling also the alternative to just rough-turn (blanking) the screw while finishing the thread in a secondary process on post thread milling or thread whirling machines.

With our new thread milling cutters, we are now able to offer you a comprehensive, high-efficient product line for the manufacturing of external threads on bone screws.

**Whichever process you prefer, Schwanog is your unsurpassed partner!**



Quick change from WEP to DCI system by exchanging the cutter ring.



New Success Story in Kedzierzyn-Kozle:

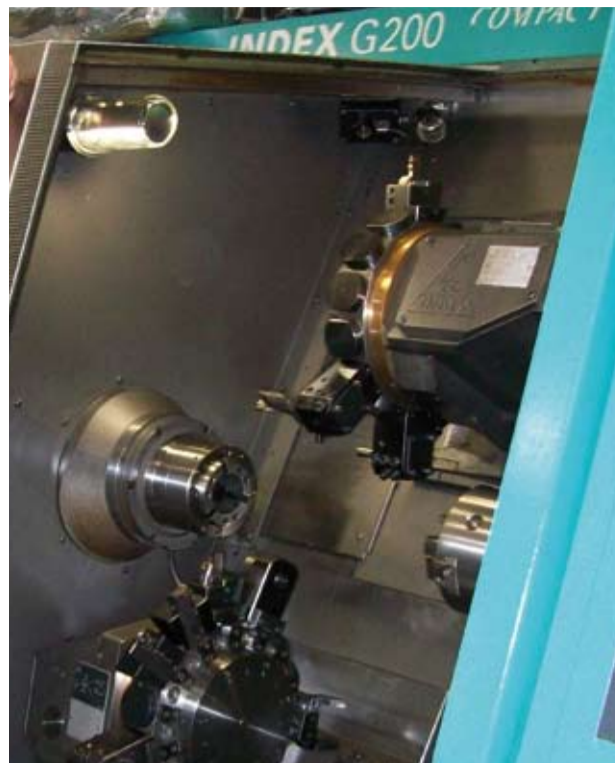
## **BERGER in Poland lowers costs by 20% with Schwanog!**

Schwanog has been strengthening its position in the Polish market with increasing success since 2007. As a result, Maciej Nowosielski, who manages the territory in the heart of Poland, was able to gain Berger as a new Schwanog customer. Berger is the leading international manufacturer in the field of metalworking.

Berger Holding GmbH & Co. KG in Memmingen is the world's largest family-owned manufacturer of precision turned and milled parts, mechanical engineered part subassemblies and ball screw gears for customers in various industries. The plant in Kedzierzyn-Kozle in the southern part of Poland manufactures parts made mainly from steel using multi-spindle and swiss-type automatic lathes.

Because of its innovative power and assertiveness, Berger Holding was able to secure and internationally expand its market position. The slogan of Berger Holding "Präzision in Perfektion" (Precision in Perfection) corresponds with Schwanog's own policy and therefore offers an outstanding foundation for a productive partnership.

Berger has given Schwanog the task of optimizing the manufacturing of precision parts on an



INDEX G200 Compact

Index G 200 lathe. After analyzing the manufacturing details, Schwanog recommended using an individually custom made plunge-cutting tool based on the PWP product line.

Schwanog was convincing with its product solutions for the INDEX G 200 CNC lathe. The production time was reduced by 14 seconds per part by replacing the previously used two single-point inserts with one Schwanog PWP form insert.

**A fantastic 20% reduction!**



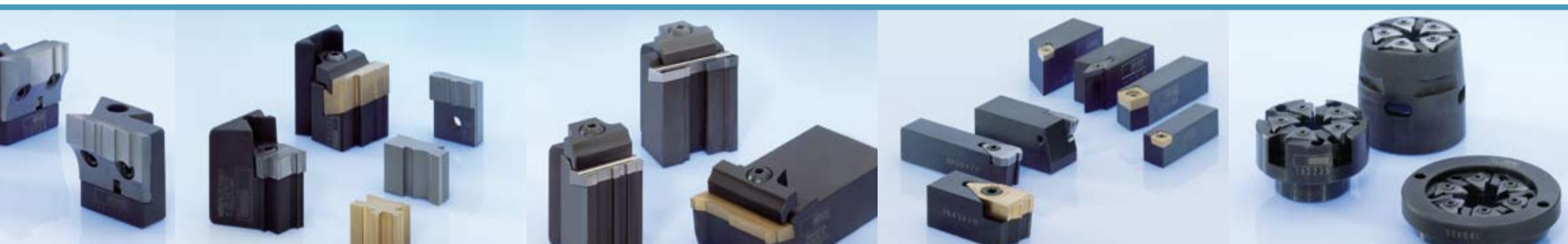
Messrs. Maciej Nowosielski, Schwanog and Grzegorz Wojtczyk, Berger Poland.

**Together, we were successful in reaching the required objective of significantly increasing productivity.**



Berger plant in Kedzierzyn-Kozle, Poland.

**A. Berger Polska Sp. z o.o.** · ul. Przyjazni 47A · 47 - 225 Kedzierzyn - Kozle  
**Piotr Streiss** · Tel. +48 77 4060 703 · Fax. +48 77 4060 716 · Email: pstreiss@aberger.pl · www.aberger.com



## Schwanog quality worldwide: Successful shows in the USA and France!

Schwanog put on a persuasive performance at the PMTS (Precision Machining Technology Show) held in Columbus Ohio from April 28th to April 30th, 2009. Our company and the individual efficiency of the Schwanog high precision tools impressed the international visitors.

Especially the specific profitability and project examples with a productivity advantage of up to 60 % surprised many visitors, and generated many new interesting contacts. The MEDTEC in Besancon, France from April 22nd to April 23rd, 2009 was a great success.



Schwanog presented itself powerful at the show, which is held centrally in the vicinity of the French medical industry. The competent solutions for the medical industry impressed the visiting experts. Especially the manufacturing of bone screws with crest radii as small as "0016" fascinated the visitors.

**Thus Schwanog sets new standards in terms of lowering cost and increasing efficiency.**

## New Schwanog data sheets! Updating of technical documentation!

The new updated data sheets for your Schwanog catalog are here!

The new successful DCI thread whirling product line with 9 and 12 double-sided cutters which significantly reduces part cycle times, has been recently included in the Schwanog line of products. (See page 2 in this "News" edition).

The new data sheets can be ordered effective immediately by email, via the internet or phone.



# SCHWANOG

### Schwanog · Siegfried Güntert GmbH

Niedereschacher Str. 36 · D-78052 VS-Obereschach  
Telefon +49 (0) 77 21 / 94 89-0  
Telefax +49 (0) 77 21 / 94 89-99  
www.schwanog.com · info@schwanog.com

### Schwanog LLC

1630 Todd Farm Drive · Elgin, IL 60123  
Toll Free: 888-870-1055 · Phone: 847-289-1055  
Facsimile: 847-289-1056  
E-mail: info.usa@schwanog.com · www.schwanog.com