



For quite some time the toolmaking with the company Schnitzler uses the electrical unscrewing unit

“Always a clean solution”

Schnitzler benefits from the advantages
of the electrical unscrewing units

Cleanliness, reliability and quality are parts of the company principles of the company Kunststofftechnik Schnitzler. These attributes are permanent components in the development and production of plastic parts of this company. Thus the Franconian company works with electrical unscrewing units at the demoulding of threads at several high-quality components. “For our understanding high-quality components for the process integration are a must”, explains Jörg Schnitzler, creative head of the company.

In the past Schnitzler used again and again unscrewing tools in different executions”, Jörg Schnitzler and the project manager Klaus Pfadenhauer remember. Because of the fact that the Franconian plastics specialist, which for some years has belonged to the ROS-group from the medical technology sector, could recently be happy about an increasing volume of enquiry, it should be thought about new and innovative solutions. “We decided against the utilization of any hydraulics because cleanliness and safe production processes are of elemental importance for us”, Jörg Schnitzler gives reasons for the decision.

While searching for the ideal solution Schnitzler found the electrical unscrewing units of the company STRACK NORMA, which has already sold hydraulic unscrewing units on the market for many years and the two companies have a longstanding business relationship. However this new unit of the standard part specialist was firstly used for a product out of the automotive sector. “I have already noticed the units previously in the hydraulic variant. They offer advantages due to its compactness, the possibility for tempering of the thread cores and the high level of user-friendliness,” explains Jörg Schnitzler.

For the production of a hydro-pneumatic valve in combination with the unscrewing of self-compacting threads for VOSS connectors, two angle unscrewing units were used. For the special and complex geometry of the threads, which moreover contain a sealing function at the thread end, the position accuracy, the exact adjustment and the ability to turn of the guide thread nut were decisive for the production of the thread.

The result was more than satisfying because of the fact that the electrical unscrewing units guarantee at every time a reproducibility. More-

>> Editorial <<



Making fit for competition! Indeed the outlook for the year 2013 is as good as for the previous business year. However also for the tool- and mould makers standstill will mean a step backwards. Because we know this, we do our best to provide our customers with new ideas and technical innovations.

Technological superiority as well as a cost-effective production are still competitive advantages making our customers successful on the market. An example is the plastics processor Schnitzler, which uses in several tools electrical unscrewing units from our company; investments in a technology making the demoulding of female threads easy, precise and economical.

You can read the technical news we are offering to you again in the current edition of the NormalienReport.

Have fun while reading

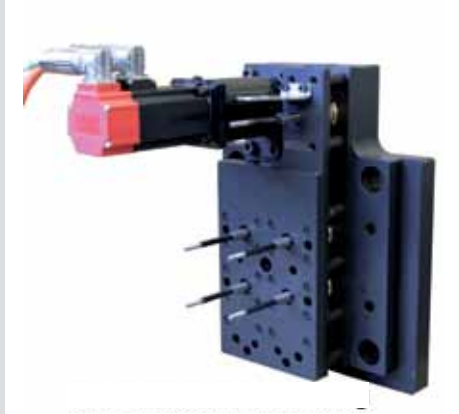
Dag Friedrich

Business manager

over we dispose of different torque stages, which allow a smooth approach to the sealing face and makes this variant indispensable. This could not be realized with a hydraulic drive in this manner, “says Klaus Pfadenhauer. A VOSS compatible thread had also to be inserted in a further automotive product. Here, with the production of a four-fold tool, a comfortable electrical special unscrewing unit was used as an installation solution and thus the project successfully realized. In this application the electrical unscrewing unit was com-

Continued on the next page >>

pletely integrated in the tool design. Also here the drive was carried out by a servomotor and by a planetary gear. Independently from the injection moulding machine thus the programmed movements could be run in parallel. The demoulding of the four threads has already been effected during the opening of the tool halves. "Using this solution we could decisively reduce the cycle time," clarifies Jörg Schnitzler.



SR-EBL-000 installation solution

In spite of the higher investment for this product, the advantages clearly outweigh, both technicians agree. Particularly concerning the production of syringe cylinders for the dental technology the unscrewing module could completely be removed from the tool. The critical leakages during the production are excluded. A further advantage has a decisive influence on the production quality: the process simulation is possible independently from the controlling of the injection moulding machine so that already in the toolmaking the adjustment of the thread could be carried out without the injection moulding machine.

The objective for the company is quickly formulated: the production of medical products should be further increased by the technological advantage. Currently the company produces on 32 injection moulding machines with a closing force of 275 t. Here Schnitzler relies on the cooperation with STRACK NORMA where products like low-maintenance slide elements, latch locks or also complete superstructures are bought. ■



Perfect plastic parts with thread

The perfect manner of bending sheet

New bending unit provides for high repeat accuracy

Since the human being is able to process metals, he considers how to design processes more economically and more efficiently. Today normally elaborately designed and cost-intensive bending stations are used during the bending and forming of sheets. But not only the effort has a sustainable effect but also the streaks and scratches arisen after the process are normally not desired.

Three new types of bending units (SN 4810, 4820, 4830) present themselves as compactly constructed forming stations and offer a number of advantages during the application. They differ mainly in the different manner of fixation. For examples their compactness makes the utilization of elastic downholders unnecessary. The bending unit overbends the sheet metal article exactly in the desired dimension to compensate the normal back spring force of the sheet. The result is an exactly formed sheet. The smooth process of the bending avoids the sliding and the raising of the material. Also marks on the forming part are eliminated by the generously stressed bending surfaces.

A further advantage during the utilization in the series production is the high repeat accuracy. This ensures that the same angle bendings and flank heights can also be reproduced after many forming processes. The high pro-



Bending unit SN 4810

cess stability being reached by the bending units takes care for a high position accuracy concerning the hole positions recurring in an article.

After each operation the bending insert is placed back in the initial position by the spring force in a rotational movement. Thus the scratches on the article surface arising inevitably by the return stroke during the utilization of a forming station are excluded.

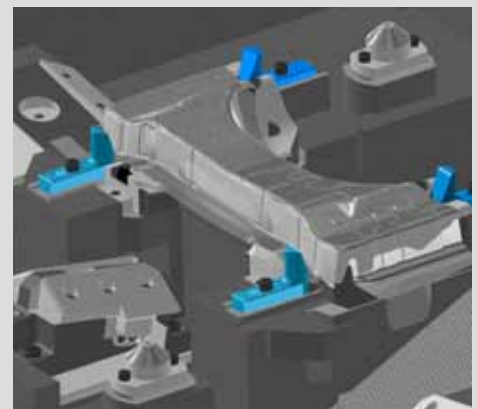
Moreover these bending units allow the classic forms like the overbending (with angles under 90°), open bending (over 90°), Z- and double bending and also crushed variants within the defined tolerance. Material thicknesses of 0.3 up to 8 millimeters can be processed. You can contact our application technicians for particular requirements. ■

Positioning guide in the tool

Position adapter SN 4520 provides for a precise position

The position adapters which are required again and again provide for the pre-positioning of the sheet metal plates which are inserted in the tool by transport grippers.

The company STRACK here responds to customer wishes and accommodates these position adapters in the wide range of the STRACK product family.



You can receive these position adapters produced out of material 1.1141 in different lengths from 65 up to 350 mm. ■

The construction tip:

The double stroke latch lock

Advantage: The standard part allows the drawing of further parting planes

You know the problem: if a third parting plane is drawn in forming tools, for example at the so-called 3-plate-tools or for the release of slides, the time-consuming search for a suited standard part begins.

Latch locks in their different types are only suited for the drawing of an additional parting plane. The advancement allows the drawing of two additional parting planes. The double stroke latch locks are available in the execution with retardation (Z 4-18) or without retardation (Z 4-19). Without retardation means that at first the first parting plane is drawn by the determined stroke (for example 30 mm) and subsequently the second parting plane (for example 80 mm). Finally follows the main parting plane. The second parting plane is firstly drawn by the determined stroke (for example

le 70 mm) if a double stroke latch lock with retardation (at the drawing strip) is used. Subsequently the first parting plane (for example 12 mm) and then the main parting plane are drawn.

Both latch housings are equipped with a locking function. This ensures that the drawn mould-plates remain in their end position after the movement.

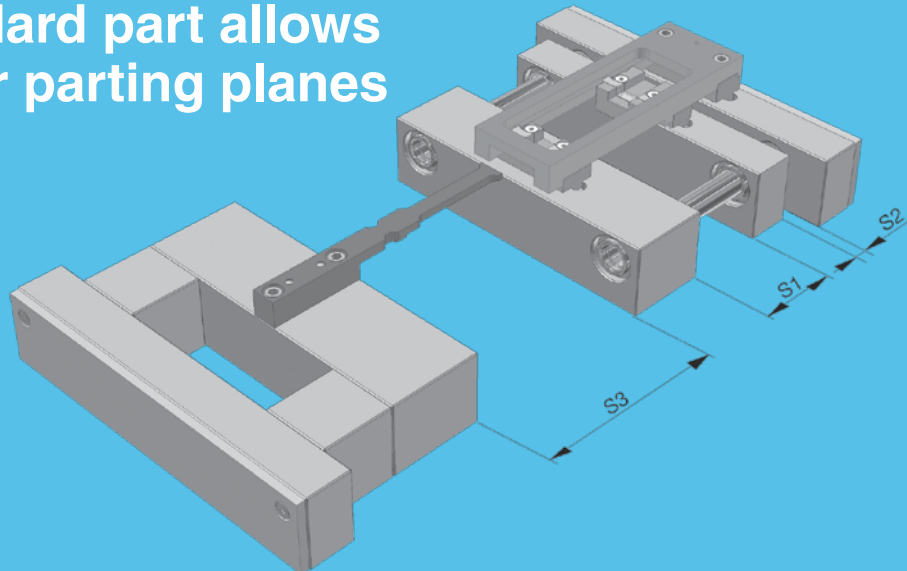


Plate express OXA in time

Mould plates of STRACK NORMA – quick and low priced. When things have to happen quickly; STRACK NORMA helps.

Introducing the new program “OXA in time” the customer receives Germany-wide mould-, and precision plates – at the latest two working days after the receipt of order.

materials 1.1730, 1.2311 as well as 1.2312. These plates can be delivered up to 40 % below the average market prices because of a new production cooperation.

By this program the FP- and P-plates are delivered in the defined dimensions and material thicknesses. All plates are available in the ma-

Here the customer can rely on the proven top-quality of STRACK NORMA. ■



Turkish toolmakers were fascinated after the company tour.

A delegation of the Turkish association of toolmakers visited the standard part specialist STRACK NORMA. This group travelled to Lüdenscheid to inform itself about the service offer of the producer for standard parts for injection moulding- and die-casting tools as well as for the stamping- and forming tools.

Visit from Turkey

Association of toolmakers visits STRACK NORMA

The product range of the traditional company out of the Sauerland region comprehends nearly 200,000 articles, which provided for astonishment among the guests from Turkey. Ludger Müller, Technical Manager of STRACK NORMA informed the professional visitors with a comprehensive presentation about the technical advantages of standard parts and the high quality standards in the production.

Moreover Ludger Müller presented some of the special products, because of the fact that the company has particularly concentrated on technical developments in the toolmaking.

He outlined the possibilities of the different types of latch locks for the utilization in the tool. Here the company, according to its own statements, is world-leading.

STRACK NORMA offers different variants of hydraulic and electrically driven unscrewing units for the demoulding of threads in the plastics processing, which are offering an alternative compared with the collapsible cores.

During the subsequent company tour through the single departments particularly the Power Max© production attracted a lot of interest of

the visitors. The innovative cam program which is unique in the world is meanwhile finished in high quantities in Lüdenscheid. But also the processing of special designs attracted a lot of attention of the delegation.

Beyond the single delivery of mould plates on request of the customer an additional processing is offered as service. The economical execution of preliminary works or finishing processes on economical plants create additional capacities for the toolmaking. "Here we are the extended workbench of the toolmaking", reveals Ludger Müller.

Göken Kocak Nwoke, being responsible for the business development of the association, expressed her thanks for the presentation and ensured Ludger Müller a close cooperation. ■

A new man for Thuringia: Christian Voß

**After 22 years with STRACK NORMA
Willi Geier goes into retirement**



Sales Manager Frank Amende (left-hand side) said goodbye to Willi Geier who goes into retirement

22 years Willi Geier was particularly on site. In the sales area Thuringia Willi Geier practically knew each company and was appreciated by his clients because of his reliability and professional competence.

Now Willi Geier is in his well-earned retirement. Christian Voß looks after the sale area since March of this year. Voß is also a man of practical experience. The 52-years old man is a trained toolmaker and has a lot of experience. Prior to this he has already worked in the sales department for tool making products.



"Firstly I will visit all the customers in my sales area, because they get to know my face", Christian Voß is looking forward to his new tasks. ■

In the first half of the year the focus is on regional trade fairs

"WFB" and "Hohenwestedter Technologietag"

2013 is a K-year and the greatest plastics trade fair in October forshadows. But in the first half of the year for the sales team still two regional trade fairs are in the focus.

On 13th June the experts of the tool- and mould making are meeting in Hohenweststedt. On this day the fifth Technology Day for design, product development, tool- and mould making as well for injection moulding takes place.

On 19th and 20th June 2013 STRACK NORMA will be presented in Siegen, where the specialist printer Carl Hanser together with WFB organizes a regional trade fair.

Numerous companies from the sector of the tool- and mould making are presenting themselves in the Siegerlandhalle. Among them, the standard part specialist which will present the newest developments to the trade specialists at the booth F03.01. ■

Impressum

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STRACK® intern Anniversaries

STRACK NORMA congratulates the employees belonging to the STRACK family for 10 years

Congratulations!

Trimpop, Dietmar January 2013
Bekker, Alexander May 2013
Hofmann, Claudia May 2013

and the employees belonging to the STRACK family for 25 years

Schmidt, Bernhard January 2013
Seinsche, Regine January 2013
Haller, Michael February 2013
Lang, Michael February 2013
Granzow, Rolf April 2013