

NORMALIEN report

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The information service for the tool- and mould making of **STRACK
NORMALIEN**

1,3 cavities daily

For the model making Gutberlet velocity is the key



■ Precision: Gutberlet produces tools with modern machinery

1,3 prototype mould cavities are produced daily – five mould proving are carried out per day. The velocity and the delivery reliability in combination are the base of the business success of the model making Gutberlet. Therefore the owner relies on STRACK NORMA as a supplier of standard parts: “Delivery reliability and on-site service concerning our partners is important for us”.

The combination of a small-series toolmaking and an own moulding plant are the recipe for success for the company Gutberlet. “All that the big companies don’t want to do, because of the fact, that the number of pieces is too low, is “our thing”. In the automotive range, in the medical technology and prosthetics, to name only some, still some small or very small series exist.

More than thousand ongoing tools and devices are stored at Lehmborg in Lüdenscheid and are waiting to be set up and signed off in the modular construction system.

The small-series toolmaking is the result of a constant further development of the eighty-one years old company. Founded by Otto Gutberlet, at first wooden models for the mechanical engineering were produced. Over the years the company Gutberlet experienced some evolutionary steps, and oriented itself continuously in new directions – beginning with wooden models, master forms, gauge construction, prototyping till today’s production. Today the company is led by the third generation. Matthias Gutberlet has taken

over the company from his father Rolf in the year 1998 and developed it continuously further. As a producer of prototyping tools and part, Gutberlet occupies successfully a market niche. With the production of prototype tools out of cast resin, Gutberlet has made a name nationwide and is still today leading on this sector. But in the meantime these are however nearly exclusively produced out of aluminum or steel. In the production Gutberlet uses the latest technologies in all ranges. “We expect this objective target also of our suppliers” Gutberlet requires innovations from the partners.

Gutberlet obtains different standard parts from STRACK NORMA. “Primarily the standard moulds are used”, Gutberlet knows that these are seriously stressed, because of the reutilization. “They have to prove their durability”. It is important for the grandson of the company’s founder that the standard parts are delivered quickly. “This works always excellently”, Gutberlet comments the delivery reliability of STRACK NORMA. “We anyway take quality for granted.”

Even if something fails, STRACK NORMA supports the Gutberlet – team promptly. “Recently an external constructing engineer constructed a hot channel in the 2-C range laterally reversed,” the boss of the company remembers. Naturally this was only noticed after the first delivery by STRACK NORMA. “The application engineers reacted immediately and after 48 hours the mirrored channel lay on our “workbench”, not only Matthias Gutberlet was enthused about the flexibility of this supplier, but also his client.

And if there are special requirements, STRACK NORMA delivers the special parts directly to Gutberlet. Concerning great constructional systems STRACK NORMA delivers the individually produced die sets and plates.

“The cavities are of course inserted by us”, completes Gutberlet, “for this the in-house construction is the basic requirement, otherwise we would not be enough flexible.”

Editorial



Standstill is, as is generally known, a step backwards. Thus we annually present completely new developments. The evidence is the new side-cam unit “Power Max” which we introduced on the market recently. But also the continuous advancement of our established articles is in the same manner interesting for our customers.

Actually a brochure with product supplementations, consisting of 24 pages, informs about this. Some of these novelties are presented in this issue of the “Normalien Report” (standard part report). New materials, improved functions and modified dimensions characterize normally our advancements. Not unusually these are effected on demand of our customers. Therefore we are grateful for incitements of our customers. Particularly the practitioners support us in modifying the limits of construction. Have fun while reading.

Dag Friedrich
Business manager

Trio supports sales team

A change has taken place in the trading area Bavaria North. With immediate effect, Sven Oexle, is the right contact person for the customers of STRACK NORMA. The 42-years old salesman has the right practical experience. He is a trained toolmaker and has further qualified as an engineering technician and master of technical management. In short: Sven Oexle is the right person for the standard part business on site.



■ Sven Oexle

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Florian Danzke is a reliable and competent contact person in the field service for the trading area Saxony Anhalt, Berlin, Brandenburg, Mecklenburg-West Pomerania. Therewith he succeeds Bernd Flemming, who retires after a long-time employment with STRACK NORMA. Florian Danzke is a real Berlin person and as a trained toolmaker he is at home in the world of the punching and forming technology and as well in the world of punching- and bending technology.



■ Florian Danzke

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The new man for the far north is Kieran Griffin and is a born Irishman. Love of adventure and the interest in his job lead the 40 years old toolmaker in his younger days in the "Mecca of the toolmaking". Still today he lives with his family in Lüdenschheid. Now he attends the customers in the federal states Bremen, Hamburg and Schlesig Holstein.



■ Kieran Griffin

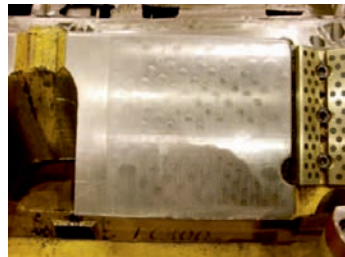
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Life-prolonging measures

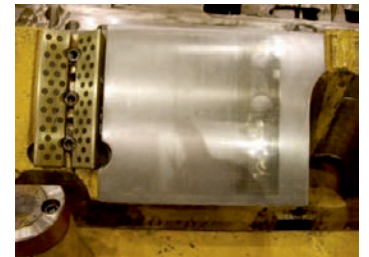
The new generation of slide elements out of SNS – sintered metal



■ With solid lubricant and counter bearings after 187.000 strokes



■ SNS-sintered metal and counter bearings after 187.000 strokes



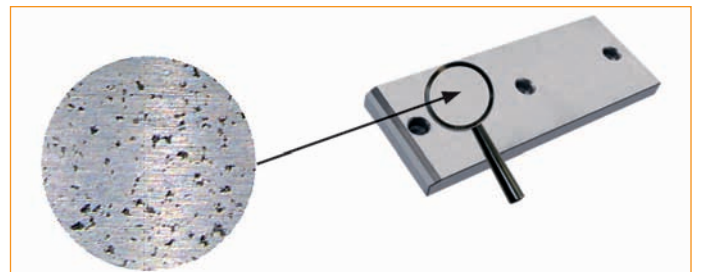
In the everyday application the slide elements are exposed to high loads during the machining of high-strength sheets. The quality of the material has a decisive influence on the life-time of this product. Moreover the running life and the maintenance intervals depend on it.

With immediate effect the slide elements were produced out of a sintered material, which was especially coordinated to the application in order to make the product consequently more resistant. The maximal, unlubricated running characteristic triplicates to 3.000 operating hours. The base for these results is reached by the bearing elements which are now produced out of steel-reinforced, on iron-basing, porous sintered

metal bronze. Thereby a high wear degree at low and average process velocities is guaranteed.

The sintered metal is applied in a strength of about 1,5 till 2 mm on a base body out of steel. As a result of this the guide element has a considerably higher resistance. At the same time the SNS-elements can be driven with a surface pressure which is twice as high and can be driven with 70 m/min, a sliding speed which is almost 5 times higher. Moreover these ele-

ments are optimally equipped for the application in the forming tool because of their temperature resistance of 250°C. STRACK NORMA initially starts the program with the bushing SN1727 according to DIN 9834 as well as with guide plates SN 4168 according to VDI 3357.



■ Pore deep: Surface with MoS2 on SNS-sintered metal

Cost reduction with cooled unscrewing units

Active and passive cooling is now possible concerning the unscrewing units

At the beginning of the year 2009, STRACK NORMA, presented with the unscrewing units Z5410 and Z5430 (thread demoulding for single and double tools as well as angle unscrewing units) a new, cost-saving, alternative for the demoulding of injection moulding parts with female threads. Unscrewing units with a passive and active core cooling are now technical alternatives, to make it possible for the user to save further costs.

The development of the unscrewing units succeeded in supplementing the conventional technologies of the thread demoulding by a quick, precise and economic alternative. Since the market launch the sales figures for the standard- and special units have jumped up. The unscrewing units are suited for the demoulding of injection moulding parts, die casting parts as well as for products which are produced in the metal-in-mould procedure (MIM).

With immediate effect the newly developed unscrewing units are optionally provided with an active core cooling. The integrated cooling element cares for a cooling of the thread cores, shafts or similar contours. The integrated cooling process reduces the cycle times again considerably compared to the un-cooled

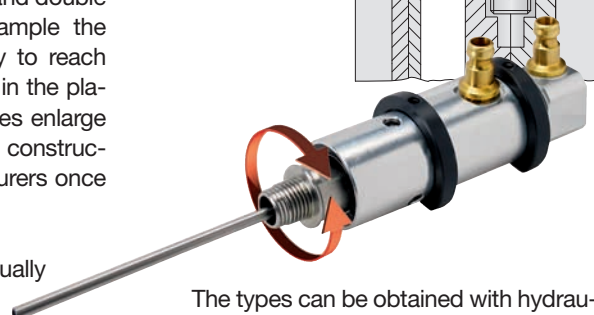
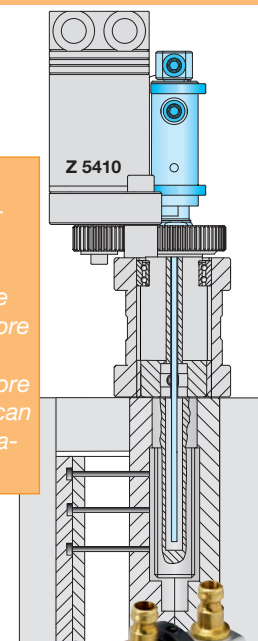
standard version, which contributes to the reduction of the piece costs in the production.

It will not only please the constructing engineers that these core cooling which is equipped with ceramic seals can also be used and ordered as a separate component with the STRACK NORMA article Z5450.

Alternatively the cooling of the thread cores is also possible with a passive cooling. This procedure is used at simple and double unscrewing units, where for example the product has to be cooled slowly to reach the required structural conditions in the plastic material. The four cooled types enlarge the operating spectrum for the constructing engineers and tool manufacturers once again considerably.

The unscrewing units can actually be obtained in 5 types: as simple, double, threefold and eightfold unscrewing unit and as well as angle unscrewing unit. The manifold unscrewing units are suited if several female threads are demoulded at the same time, in the same level, direction and pitch. These units can be delivered with different axes distances.

Thread pitches cooled: Unscrewing units Z5410-Z5430 can now also be received with core cooling Z5450. Moreover the core cooling Z5450 can be ordered separately.



The types can be obtained with hydraulic motors, which offer a performance of 2,6 kW, 3,2 kW or 6,1 kW. Thus thread diameters from 3 mm to 98 mm can be produced and unscrewing lengths from 0 to 150 mm can be realized. Moreover concerning the standard types the backfitting with an active or passive cooling is possible.

Construction tip:

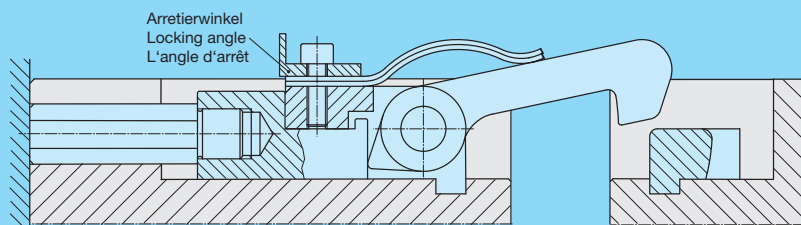
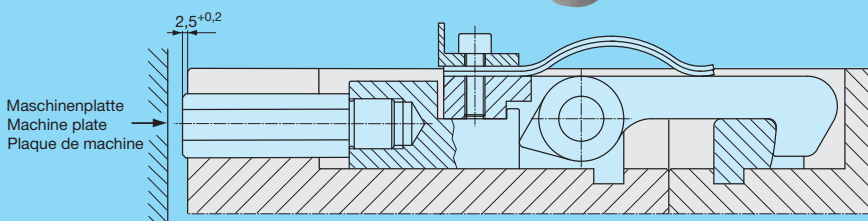
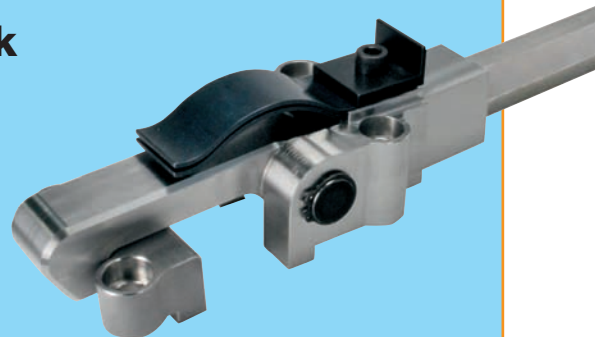
Secure is secure: Automatic transport lock

Each practitioner has experienced this situation once in his professional life: during the mounting or dismounting of the injection mould, the transport lock opens unintentionally. Sometimes the consequences cause great trouble and are often cost-intensive.

The automatic transport lock R1025 avoids this problem. The new development avoids the unintentional opening of the lock during the transport. If it is used in the practice, it reduces the set-up times for the mounting or backfitting and offers highest security by the locking of the two mould halves.

During the operation further measures provide highest security for the user. At the mounting of the mould in the injection moulding machine, the opening of the mould will only be possible, if the mounting plate on the moving mould half closely lies at the machine table.

At the dismantling from the moulding machine both halves are automatically locked. During the transport or the storage of the injection mould the locking angle is screwed the other way round.



Imprint

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Harald Puppe celebrates his 40 years jubilee

He still remembers exactly his first day with STRACK NORMA. This day followed up to now nearly 15.000 further days. Recently Harald Puppe celebrated his 40 years staff membership in the company.

In the year 1970 Harald Puppe started as a technical employee in the company. Today he daily takes cares, together with his colleagues from the store, that the numerous standard parts will reach the customers safely and punctually.

The great hobbies of 61 years old man are the railways. Whether they have the measuring unit 1:1 or 1:87, Harald Puppe smiles while enthusing about his great passion. Still today he is allowed to move a rail car on the rails because he has a driving license for this. These are again and again unforgotten experiences for the railway-fan.

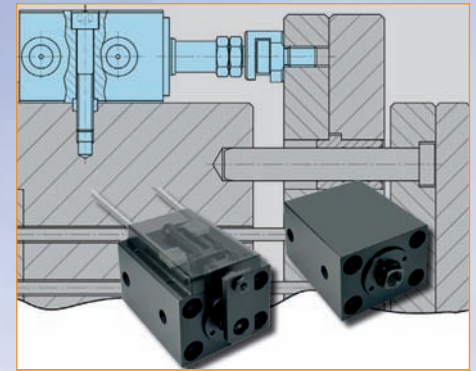
The copartner Andreas Geyer congratulated on this not-common jubilee and presented him with “a precious liquid drop”.



■ 40 years “full steam” – copartner Andreas Geyer congratulates Harald Puppe on his 40-years company jubilee.

Compact, practical and good: the new block cylinders

Alternatives create new freedoms in the construction



■ Compact: the new series of block cylinders

STRACK NORMA supplemented its product range. Different types of block cylinders Z5350-Q and Z5350-L were included, giving new freedoms to the constructing engineer on the screen and giving new freedoms to the user in practice concerning the planning and production of tools compared with for example the short-stroke cylinders.

The screwing of the block cylinders outside the tool allows a simpler movement of the stripper plates or the cam elements in the tool can simpler be moved backwards, whereby the control sequence can be modified.

The constructing engineer can order the block cylinders in different types. For example the type Z5350-Q with integrated cross-holes. The type Z5350-L has longitudinal bores in the cylinder. The hydraulic system can develop a pressure of up to 450 bars. The pistons have diameters in the range of 16 till 100 mm and can be obtained in stroke lengths between 10 till 1.500 mm – according to the piston diameter.

The mounting at the tool is quite simple by means of coupling plugs Z5352 with receiver chuck (Z5352). Corresponding limit switches for the stroke monitoring of the individual block cylinders can optionally be obtained.

STRACK[®]
NORMALIEN

STRACK NORMA congratulates the employees who have belonged to the STRACK family for many years.

10 years

Damisch, Holger
Flemming, Bernd
Papanikolaou, Evangelos

01.01.
01.03.
01.04.

40 years

Puppe, Harald

01.03.

Congratulations!