

PRECISION



JOURNAL
2009

IN PLASTICS

Development | Precision Molds | Production

EDITORIAL

Dear Readers,

The economic depression remains the centre of attention in the year 2009. Enough has been reported about this already so the challenge now is to stimulate the economy once more.

As a result we have adopted foresight as a guiding principle for our actions. We place great importance on medical engineering and have therefore upgraded our clean room to a Class 8 room in accordance with DIN EN ISO 14644-1 standards.

We want to meet our customers' future challenges by making high-class products in an environment that is almost completely free

of germ and particles.



Jens-René Lübben,
Managing Director



Gerhard Schildbach,
Managing Director





INFORMED

G-Quick: A quick test system by GAUDLITZ Medical

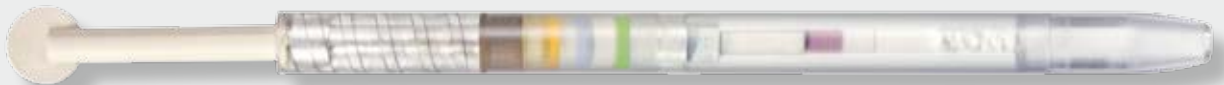
GAUDLITZ develops its own products.

What have doctors, laboratory technicians, managers and recreational athletes in common? According to Walter Franz, Head of Development at GAUDLITZ: "They all want a reliable analysis as quickly as possible." "This should not need much preparation, should be good value, easily-understood and, if necessary, provide instant results. Be it the quality of water in a laboratory that is being tested, be it a doctor's focus on the analysis of human fluids, be it the general health

of a person and thus the potential performance of a manager under stress or a recreational sports athlete, we recommend you conduct this analysis using the GAUDLITZ rapid test. A drop of blood is fed into the capillary tube and carried forward into the transparent reaction chambers. The test result can be easily read by looking at the change in colour on the test strip. The changeable liquid absorption system is built to be dirt proof and thanks to its design allows for a wide range of liquid volume to be tested. Due to the fact that many testing substances of varying volumes can be integrated without mixing, varying processes may be carried out in the reaction chamber. The integrated sealing elements



Why is G-Quick also suitable for the consumer sector? The GAUDLITZ quick tester stands out because of its compact design. The G-quick also scores points because of its tactile characteristics. Go ahead – decide to use the



of a person and thus the potential performance of a manager under stress

which prevent any leaking of liquids are another excellent technical feature.

GAUDLITZ quick test and get in touch with us!

Analyse your laboratory samples with the GAUDLITZ

Choose us as a partner for the modification of established products:

For quite some time there have been a number of testing devices on the market in the field of human medicine and laboratory testing which are designed to prepare samples for subsequent analysis and dis-

solve a wide range of samples such as stool samples using a suitable solvent or reactant. Why then has GAUDLITZ taken it upon itself to develop a new variation of such a device? The explanation given by Walter Franz, Head of Development, for this is that the aim is to "stand out from existing systems in both the way the device is used and the variety of possibilities offered."

Have an influence on the product to





Let the GAUDLITZ development team convince you of our capabilities

Think creatively and expand your horizons by working with GAUDLITZ's development team.

By looking at things from a new and different point of view, we activate the decisive knowledge needed to turn your ideas and products into a reality suited to plastics. Walter Franz, our Head of Development, in conjunction with his team of workers, will supply you with the suitable solution for your individual needs.

You can rely on some seventy years of experience of working with thermoset and thermoplastics as well as the precision parts produced from them, most of which can also be used in the area of medical and dental engineering.

Take the chance to develop and produce sophisticated products with us in order, above all else, to meet the later requirements of product safety, functionality and design. Our development activity is normally carried out in the form of a project: Start your RFQ by contacting our Head of Development, Walter Franz. Having held a series of diverse project consultations, we take care for the adequate design of your tools using Moldflow. With the design of desired products in a way that is suited to plastics we can refer, among others, to the solutions of our suppliers. As well as testing possibilities using a Zeiss scanner



which will not damage the materials we offer finishing techniques, such as printing or even the complete packing of components.

Simply convince yourself of the capabilities of the GAUDLITZ development team. Get in touch by phone with Walter Franz, our Head of Development, at +49-95 61 / 6 48-7 50.

The GAUDLITZ's development team (from the left side): André Dusch, Kerstin Steinmetz and Walter Franz.

stool testing device

be developed from the preliminary stages: Even at the product development stage, the demands and wishes of external partners from chemical and medical laboratories have been taken into account. Thus, the existing device, made up of a transparent tube, adapter and cap, was made significantly easier to operate. Thanks to a new bayonet, it is now possible to open and close the three components fast. An extra fine surface structure as well as easily-gripped

user-friendly grooves on the outside make it simple to use when wearing gloves. In addition to the medium tight seal of all components a further technical highlight of the new system is the special geometry of the sample rod, which allows for secure substrat sampling. In conjunction with the adapter, an exact dosage of the material is possible as any excess material is stored securely in an adapter chamber. We have the right system for your needs. When design-

ing the testing device, GAUDLITZ emphasized a modular design. By simply adding or removing components, the device can be used in a variety of diverse applications. **Please contact us – we will adapt our device to your requirements.**





INFORMED

Expansion in the field of medical engineering

The medical engineering, pharmaceutical and diagnostics market has laws, demands and characteristics of its own. GAUDLITZ is up to the challenges in all these fields and we have, in particular, formed our own sales team which operates independently of our experienced sales team responsible for the Automotive and Industrial sector. Manfred Riehl is head of Medical Sales. Mr. Riehl has gained wide experience in the area of injection molding in the medical engineering sector. His long years of experience have included working in the area of quality control of molded parts in addition to advising customers and conducting damage research at a well-known testing laboratory.



*Manfred Riehl,
head of
Medical Sales
at GAUDLITZ*

He has also worked internationally for an American pharmaceutical company in the field of applications engineering concerning biodegradable polymers and for a medium-sized plastics processor where he took on project and management responsibilities.

In line with GAUDLITZ plans, his aim is to substantially increase the medical engineering share of the company's turnover and to improve the quality of the product range. "The years of experi-

ence which GAUDLITZ has in the medical engineering market segment is an excellent basis to expand from," he emphasizes. "With the establishment of an ISO 14644-1 Class 8 Clean Room, the certification according to ISO 13845, and the development of products used for the purpose of diagnosis, GAUDLITZ has shown the readiness and the strength to invest strategically in the future. That motivates me and my team greatly to invest everything we have got in the form of energy and experience. We are supported in this by a fifty-strong competence team of workers from all departments whose main focus of activity lies in the medical and pharmaceutical world and who are the backbone of any successful expansion."

Blood analysis by optical means



For many years, a notable GAUDLITZ customer in the field of diagnostics has been producing a device, with which many important human blood parameters can be optically measured. The device has been designed in such a way as to be easily used close to the patient, i.e. either in the doctor's surgery or in small laboratories.

The light barrier cap is an important functional element in order to rec-

ognize various states of the measuring unit. Its task is to protect the optical path from stray or crossbeam light from the transmitter or receiver and for this purpose it must be very precisely placed on the circuit board. The plastic used may not shine and this is achieved by the special surface of the plastic injection mold.

A reflective light barrier could no longer be purchased by our customers on the market. The follow-

up part was produced as a plastic injection mold part by GAUDLITZ. This was quickly completed and only 8 weeks passed between the initial request and the release of the product components. In doing so, the article drawing was produced under control of GAUDLITZ and the necessary, very narrow dimensional and angular tolerances of this optical component were calibrated and transposed on the part.



Digital 3D Scan: Leaving no bitter taste



The traditional way of taking a dental impression for the purpose of dentures is to do so by means of an impression tray. Many patients, however, find this procedure very unpleasant as it often creates a choking sensation and leaves a bitter taste behind.

GAUDLITZ customer Sirona Dental Systems has a system called CEREC Connect which allows the dentist to take a 3D scan of the preparation using CEREC AC and CEREC Bluecam. In this way the dentist is able to avoid putting his patient through the conventional unpleasant process. After the digital casting has occurred the dentist sends the information via the internet to his dental laboratory. Based on the information received the laboratory may order a plastic model from Sirona for the production of the restoration.

Models produced at Sirona using the SL procedure are delivered as saw cut models which, like well-known models in the dental laboratory, have already been pinned on plates produced by GAUDLITZ. The plates on which the models are mounted are then put in to the model holder by the dental technician. These holders are also produced by GAUDLITZ. In this way, the patient's particular situation is transferred digitally and the dental technician can complete the restoration normally.





The new clean room is handed over to its destiny

GAUDLITZ has developed a completely new supply chain in the field of medical engineering.

Having our own new sales team, a specialized design department and a new production team for a Class 8 Clean Room (DIN ISO 14644/1), GAUDLITZ is now in a position to meet the demands of the trade. "We offer our customers our complete know-how from one source, something which we have established over a period of seventy years," says Jens-René Lübben, chief executive of GAUDLITZ Ltd.

In July 2009 the PQ (Performance Qualification) certificate was granted to our company confirming that all facilities and systems, when used under normal and routine conditions, meet the required specifications and that the clean room can be given the official ap-

proval for production. This certificate is resulting from a successful OQ (Operation Qualification) certification proving that all systems and facilities run properly.

This means that since August 2009, at the plant in Coburg, a 400 square metre large Clean Room has been installed in which workers wearing protective suits and working at 15-150 ton machines produce products in a germ and particle free environment for our customers.

In particular, material used only once such as expendable items in the laboratory will be produced in the new production hall, which works completely independently of the rest of the plant. Mr. Lübben concludes that "by using this new Clean Room, GAUDLITZ is now, for the first time, in a position to produce products for our customers in the Pharmaceutical and Medical sectors which meet all the FDA and GMP regulations and guidelines."

Successful Certification according to DIN ISO 13485

A further step towards the Medical, Pharmaceutical and Diagnostics market was taken when GAUDLITZ achieved the first certification

in line with DIN ISO 13485 by DEKRA Certification LTD in August. The head of the auditing team confirmed that GAUDLITZ is a well-established company with a smooth quality management system which met all the requirements set down for medical products in an exemplary and comprehensive fashion.





Close to our customers worldwide

Being close to you is something we consider very important. Therefore, in addition to our main plant in Coburg we have invested in further production plants in the most important countries of China (Wuxi) and the Czech Republic. However, a company is not just a place where parts are produced but a living social system consisting of employees who provide all vital information for you. In order to be able to offer you relevant solutions for your actual requests the language of the country in question may not be missing. Employees from a variety of countries are working for you. Get in touch with us!

Zajímáte se o montáž modulů? Oslovte mě.
(You are interested in the fitting of assemblies? Get in contact with me.)



Jitka Vyborná
(Czech Rep.)

Size yeni plastik parçalar gerekiyor ve bu yönden bilgilendirmeniz tavsiye ediyoruz. Benimle görüşmek için lütfen bir randevu ayarlayın.
(You need new plastic parts and need advice? Make an appointment with me.)



Taskin Cetintürk
(Turkey)



Murielle Boheme
(France)

您对复杂的注塑产品有来自于中国的需求吗? 那就请联系我们。
(You need highly-complex injection mold parts from China? Then get in contact with me.)

Vous avez un changement d'état de vos livraisons? Un appel chez-moi suffit.
(Your situation concerning delivery has changed? Just give me a ring.)



Sabrina Silverii
(Italy)

Sono la persona che é in contatto con la produzione.
(I'm your link to production.)



Zhen Zhou
(China)

GAUDLITZ nails its colours to the mast – Association activity and commitment to sponsoring

In a complicated world containing both obvious and unseen challenges on all fronts, creating and maintaining strategic networks is a prerequisite for competence and success. Knowing this, GAUDLITZ introduces itself to and keeps in contact with important forums in the medical and pharmaceutical industry. The association of polymer processors in medical engineering, otherwise known as KiM, is currently an amalgamation of 16 mainly middle-sized polymer processors. Manfred Riehl, the head of Medical Sales at GAUDLITZ is the spokesperson for KiM.

The MedTech Pharma Forum, an international network organization in Bavaria has, for many years, counted GAUDLITZ among its members and has, thanks to its professional work, proved to be a valuable forum for exchanging and gathering information of interest to us. GAUDLITZ is also involved in the TecPart Specialist Forum for Medical Engineering as a result of its long-standing membership of the GKV (Association of polymer processors).

Manfred Riehl, head of Medical Sales at GAUDLITZ, is also a regular contributor to the Hanser Publishing Company's series on Medical Plastics Symposiums. As well as the expertise which we contribute to the designing and preparation of conferences, GAUDLITZ also sponsors participants so that they may take part in the conferences at greatly reduced expense to them. This contribution on our part shows how active we are.





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Exchanging Knowledge: Medica 2009



Interesting and informative discussions are a regular occurrence at the GAUDLITZ stand at the Medica Trade Fair.

A Review of Medica 2008

The Medica Trade Fair 2008 in Düsseldorf was once again a highlight that could not be missed by GAUDLITZ. As it was also the case the year before, GAUDLITZ presented new innovative products for use in modern medical fields at the Forum MedTech Pharma joint stand.

Once again the trade fair proved its worth as a perfect forum for exchanging information and knowledge and for making new trendsetting contacts, factors which always make a visit worthwhile.



Looking ahead to Medica 2009

The Medica Trade Fair, which takes place this year in Düsseldorf from November 18th to 21st, is once again an appointment that GAUDLITZ has to keep. GAUDLITZ, keen to be seen as a competent partner in the medi-

cal engineering supply industry, may be found at Forum Med Tech Pharma Joint Stand.

It is hoped that, thanks to the success of recent years, contacts with customers will be looked after and new business relationships will be formed.

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Präzision in Plastic