

# EFFGEN

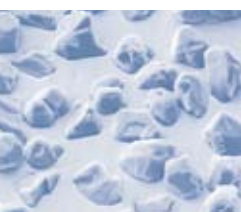
Schleiftechnik

# LAPPORT



PRECISION | INNOVATION | FLEXIBILITY





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## System Supplier for Grinding and Dressing Tools

Since the business activity buyout of the Lapport group in Enkenbach-Alsenborn in October 2009 through the Guenter Effgen GmbH in Herrstein, a new system supplier for worldwide available grinding and dressing tools has been established, located in the centre of the German gem stone industry - Effgen-Lapport Schleiftechnik.

With a business experience of more than 100 years, the traditional family companies Effgen and Lapport introduce themselves as competent contact partners for well-rounded solutions in the field of high precision, standard grinding and dressing applications as well as bespoke tools for customer requirements.

The expertise and the expansion of professional competence between both companies has been optimized with applications, process improvement and manufacturing developments.

Hence, the Effgen-Lapport team has already launched several new products and process developments since the merger, implemented suc-

cessfully in cooperation with customers and partners and leading to significant process improvements and cost saving applications.



*Grinding and dressing tools from Effgen and Lapport – all from one source.*

Diamond, boron nitride (CBN), corundum and silicon carbide (SiC), either embedded in an innovative electroplated layer or sintered in a vitrified, re-

sin or metal bond – Effgen-Lapport Schleiftechnik offers a precisely designed product system of high quality and reproducibility, independent from the complexity of application. A competent technical assistance as well as a flexible delivery service are included.

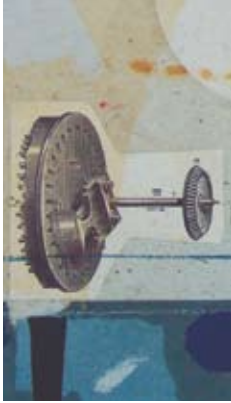
The philosophy of Effgen-Lapport and the 350 employees, which is Precision – Innovation – Flexibility, has successfully led to continuous growth results and customer satisfaction with their products. Today, nearly 10,000 customers worldwide receive product and service deliveries made by Effgen-Lapport Schleiftechnik.

**Contact us - we can improve your grinding and dressing process.**



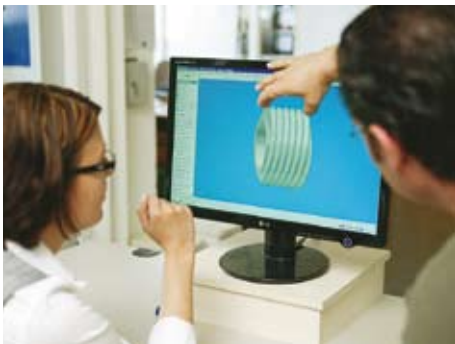
*Effgen-Lapport Schleiftechnik,  
Main Plant Guenter Effgen GmbH,  
Herrstein, Deutschland*

# P R E C I S I O N



Precision is the key criteria for product quality and process performance. We aim to satisfy our customer needs exactly and in a reliable way. This is why we invest extensively every year in up to date manufacturing equipment and high-precision measurement instrumentation. However, even more important to us is the human factor.

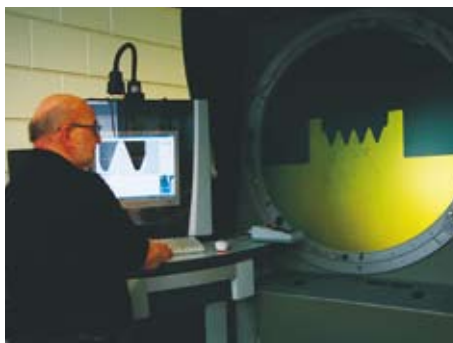
Only a good collaboration relationship between motivated and qualified people can guarantee the best level of long-lasting precision and operating efficiency. At Effgen-Lapport, we give priority to staff training, performance-linked wages, and seniority. Concerning professional skill, reliability, and appreciation for precision our young apprentices (approx. 10% of all our employees) will be particularly promoted and supported.



*Already the project definition asks for a maximum of precisions.*

We also expect our suppliers to comply with our internal processes and to agree and respect our stringent raw material requirements. Several documented intermediate inspections as well as the final check ensure that we deliver tools from our works in Herrstein and Enkenbach-

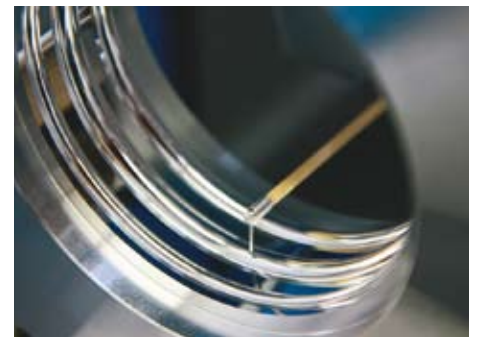
Alsenborn corresponding to drawings and specific tolerance fields.



*The final inspection assures that the profile of the base-body corresponds to all drawing requirements.*

From verification of feasibility via product conception and manufacturing to usage at customer's premises, our experienced product- and application engineering experts support the complete processing in order to ensure that the customer requirements will be met precisely. As well as product quality and -performance, the respected criteria customer service, adherence to delivery dates, and pricing are also key factors for us. In this context, we are committed to a close customer contact and supporting competence and also are prepared to conduct technical trainings concerning relevant grinding and

dressing applications. In order to support our customers in an optimum way, our experts have modern equipment at their disposal and they can revert on our fast self-developed evaluation- and ERP-system.



*Profile measurement of a negative form for diamond rotary dresser, accurate to a micrometer.*

Diamond rotary dressers and grinding tools with vitrified bond are exemplary for the quality and precision focusing. With our latest investments in molds, for example with regard to the so-called negative and positive methods, in pressing-, sintering-, and electroplating equipment, as well as in machine tools and control systems, highest demands on precision can be achieved consistently.

# INNOVATION



„Who stops becoming better, has stopped being good.“ Porcelain manufacturer Philip Rosenthal's citation is just as important to us as it is to our customers. Following, innovation means all our development activities keeping our customers and ourselves continuously successful.

Our products are subject to steadily increasing grinding process requirements and machine complexity. To stay on the top of the technology, we need to have maximum innovative ability.



*Patent-registered solutions from Effgen-Lapport.*

We continually and quickly develop new products leading to sustainable improvement of our customer's processes. Besides the exploration of new applications, we are also searching and implementing new methods and techniques of production.

The key to success is to have high qualified employees with experience and know-how. In the development department we team up with our customers and with leading grinding machine manufacturers. In the field of ba-

sic technologies we also work closely together with several universities and research institutes. Effgen-Lapport is an active member of the German federation of abrasives producer VDS and also founding member of the organization for the safety of abrasives OSA.

The activities brought us many product innovations and also some patent-registered solutions which are widely in use at numerous customers nowadays.



*Example: high accurate PCD rotary dresser due to innovative manufacturing methods*

For example we can give to you: our segmented electroplated coatings, our high precision PCD- and profile dressing rollers, our patent-registered so-called lamellas technology for vitrified

CBN tools, and our brand new range of resin bonded polishing tools. This last-mentioned innovation obtained a high distinction from the German federal state Rheinland-Pfalz.



*The Economic Minister of Rheinland-Pfalz, H. Hering, awards an Effgen-Lapport innovation.*

Since 1994 Effgen-Lapport did all the DIN ISO currents certifications, and an environmental management was put in place that also cares about sustainability. For example, since many years the electroplating department is equipped with an effective waste water circulation system. Moreover, our complex treatment of used grits and base-bodies allow us to make generally 30 re-coatings of the base-bodies.



# FLEXIBILITY



To manage daily unexpected demands – this is the main challenge for a nowadays production team. In order to run delivery date shiftings or special orders parallel to normal production without any loss of quality, cost, time, and particularly safety, flexibility is needed.

Being flexible means to surprise customers positively and to be prepared for permanent re-setup of equipment or other changes of arrangement. Influenced by continuously reducing lot sizes there are more and more orders to be done in an even shorter time, including fast-track items and modification demands. We made organizational arrangements for meeting these challenges, just in the meaning of the Johann Wolfgang von Goethe citation: “The extraordinary does not happen on a smooth simple way”.



*Before production our engineering teams verify any open issues.*

Thanks to the independent decisive ability of our management as well as the acceptance of our employees to have flexible working hours, we are in a good position to react fast and reliably

to the needs of our customers. A flat hierarchy allowed short decisive ways and an intelligent linked up manufacturing management system giving the possibility of quick modifications without having “daily headache”.

Customers are steadily in contact with competent key account managers who are present to clarify necessary process adaptations immediately with the internal production experts. Hence follows a very short reaction time. Moreover, we take a transparent re-traceability of our products and a quick complaint management for granted.



*Flexible manufacturing of electroplated grinding tools.*

We have comprehensive possibilities to increase and modify our production capacity. For example, on demand of a

main customer we have cloned parts of our manufacturing facility. Meaning that we implemented a second, identical production site in another building for the same range of products.

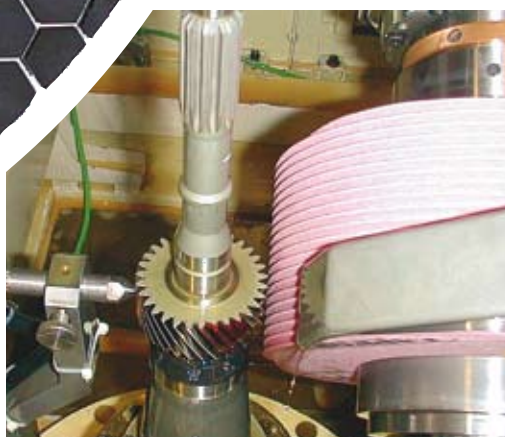
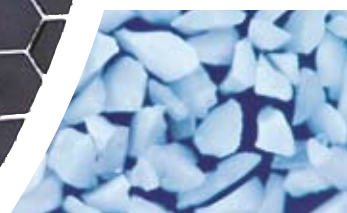


*Special fabrication according to individual customer demand.*

Our spirit of flexibility means that our employees are consistently open-minded regarding daily new challenges. A technical on-site consulting enables us to spend optimum support concerning product behaviour and grinding processes, as for example with regard to special product design or customer grinding application.

**Our team of experts would like to convince you of the Effgen-Lapport service performance and is looking forward to assist you in your grinding and dressing processes.**





PRECISION | INNOVATION | FLEXIBILITY



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