

HERMANN FRIEDRICH

ZIEHSTEIN-POLIEREREI GMBH



DIN EN ISO 9002

Quality from long-standing experience

Extremely efficient measuring instruments

Highly qualified staff

Production by wire longation

Punctual and reliable deliveries

Dies from a competent partner. Pointing the way to guaranteed quality.



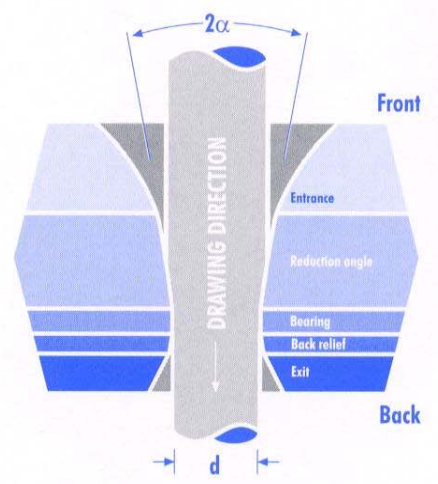
Anyone demanding the utmost from themselves in their work will succeed in producing goods which satisfy even the very highest requirements. We just call it "quality". And quality has been a decisive feature of our philosophy for over 25 years. In modern wire drawing machines diamond dies are subjected to tremendous strain, even to the very limits of the material's properties. Determining performance specifications for die polishing requires someone with expert knowledge about the physical processes involved in wire drawing. It was from his long-standing experience in this very field as technical manager in the wire drawing business that Hermann Friedrich, the founder of the company, knew what an important role die recutting plays when it comes to productivity and quality in the wire drawing trade. This knowledge has meant not only that we are able to provide the very highest quality die polishing services, but also that we are aware of the problems customers face - to the extent of being able to offer comprehensive solutions. And we will live up to that. With all our expertise, quality, reliability, and comprehensive service.



electrical discharge machine



micrometer

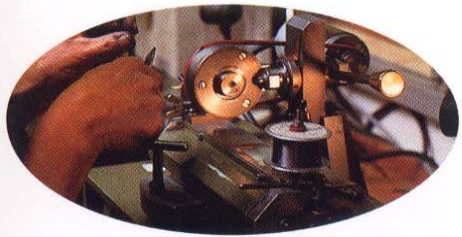


cross-section of die boring

For over two decades now, it has been our job to check and recut all types of diamond dies for our customers. But that is always just the beginning of a long partnership, for with our reliable service we continue to support our customers in their work. We relieve them of all their worries and problems with the dies, giving them every conceivable form of support. Providing advice on die adjustment as well as about storage and inventory is of

course part of Friedrich's all-around service. We see it as our task not just to recut dies, but also to satisfy our customers with expert service in every detail. Effective and flexible support registering and keeping stock of the dies needed at a works is provided by the PC software which we have specially developed ourselves and which is fully tailored to our customers' requirements. In production, demands on speed, safety and economic efficiency

are constantly increasing. So even over greater distances, punctuality and reliability of deliveries must not be allowed to lag behind. Ultimately this is just as important as high quality production. So we make just-in-time deliveries to our customers, engaging transport partners on whom we can rely and who are sure to see that the dies always reach our customers on time - both at home and abroad.



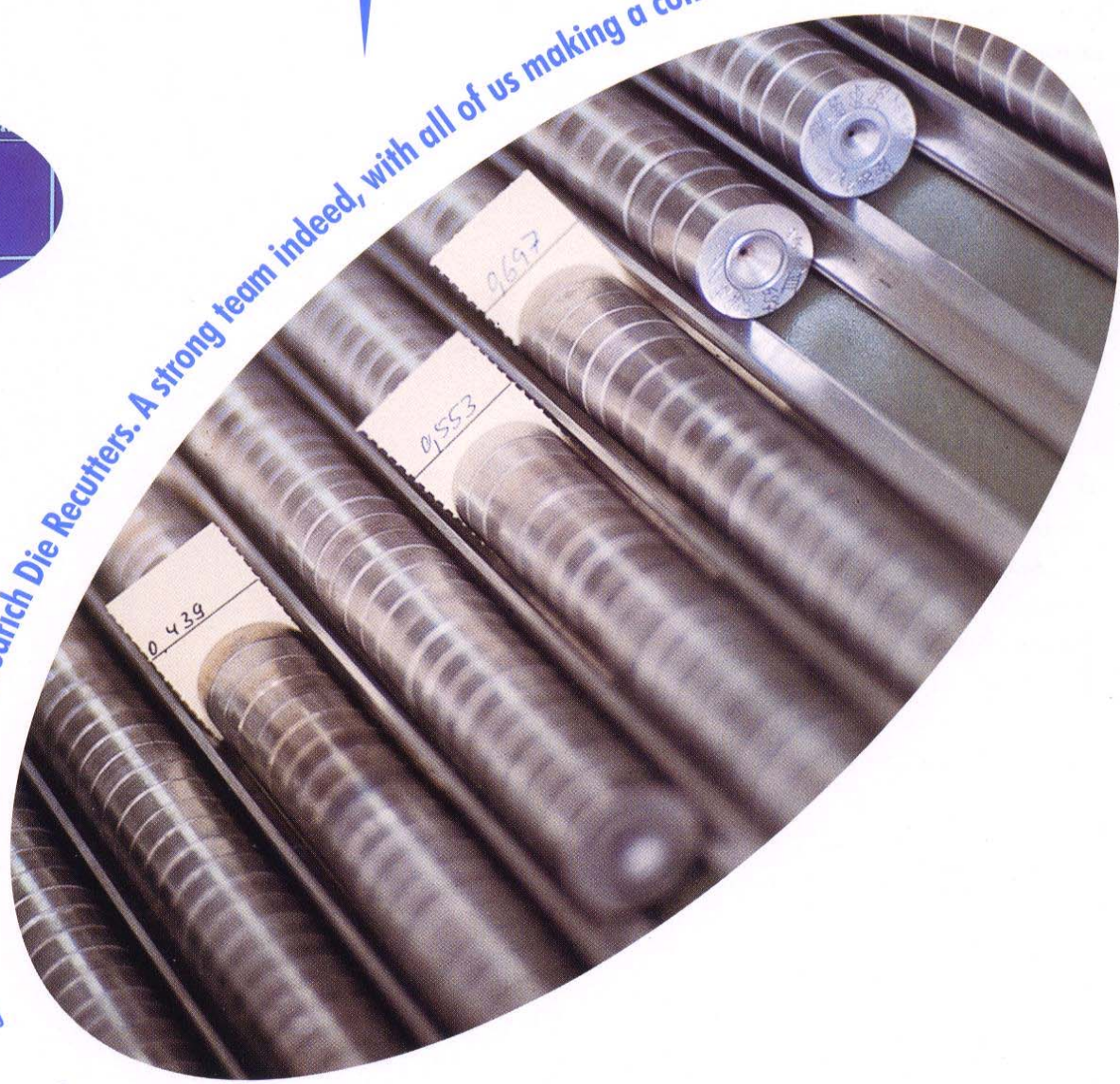
wire polishing machine

Nummer	Kern	Ist-Dm.	Ist. Dm	St.
274	N	0.9500 mm	0.9500 mm	
180	N	0.9500 mm	0.9500 mm	
185	N	0.9500 mm	0.9500 mm	
195	N	0.9500 mm	0.9500 mm	
200	N	0.9500 mm	0.9500 mm	
285	N	0.9500 mm	0.9500 mm	
310	N	0.9500 mm	0.9500 mm	
28	N	0.9500 mm	0.9500 mm	
373	N	0.9500 mm	0.9500 mm	

fenster 1/1: rauf/runter
liegen +/-: rechts/links

die inventory software

Friedrich Die Recutters. A strong team indeed, with all of us making a contribution.



Advice in adjusting and grading

Die inventory software

New dies

Regrinding

Recutting



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For us, quality is an active obligation towards our customers, not just a slogan. Our company is outstanding for its degree of orientation towards the customers, for its **long-standing experience** combined with its state-of-the-art **tools and testing instruments**, as well as for its achievement of a quality assurance system in line with **DIN EN ISO 9002**. We want to be judged by our quality, from start to finish - from the analysis of the dies used to punctual delivery. And that is true of every single order. We are willing to meet all kinds requirements, because we have the technical facilities for implementing set specifications to an optimum.



So that every single wire pull can be operated without any technical faults. The entire recutting process and the instruments used for it are continually being adjusted to meet the ever increasing demands on our production. For the main part we either manufacture our machines ourselves or modify them to suit our needs, concentrating at the same time solely on the task which each die will be performing when in use. After all, our company's success is first and foremost to the benefit of our customers. **Highly qualified staff** who have all worked for the company for many years, and the use of **extremely efficient measuring instruments** for quality control ensure that the set data for the individual dies are adhered to exactly and reliably. Our high quality work is performed accurately using biaxial laser measuring instruments: this is our standard measuring method for checking each dies diameter. By way of an alternative, we also work using electronic micro-scales. Apart from that we are able to check very precisely not only the wire's diameter but also its roundness, using our highly accurate rotary laser measuring instrument. In a word: we ensure

perfection all the way. We inspect dies **using the wire elongation method** so that wire breakages are kept to a minimum. Our electronic wire elongation measuring instrument guarantees such accuracy. Optimum adjustment of the die's diameter is thus guaranteed, and - as far as the functionality of the dies are concerned - fault-free operation of the wire pull is ensured. Quality has to prove itself anew day by day. In all phases of production. Quality does not come about by coincidence: it is the outcome of intensive quality checks. It begins with the diamond raw material, and ends on delivery. We are quite certain: the reliability of our dies depends on this quality control, so that they will easily stand up to all future demands.

Electronic measuring process



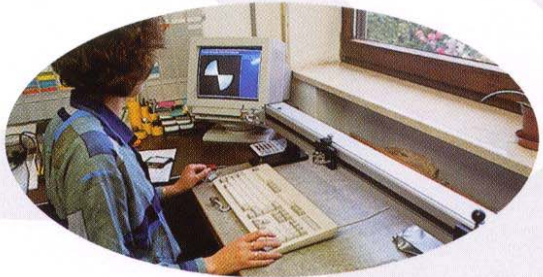
The opportunities open to our die recutting are increasing to the same degree as the requirements made on

Electronic micro-scales



production. That is why we do everything to further improve the dies' properties and thus to increase their number of potential

Rotary laser measuring technique



uses. In order to achieve this and greater flexibility, we use the most up-to-date forms of technology, which we are able to smoothly integrate into our corporate structure for all its richness in tradition.

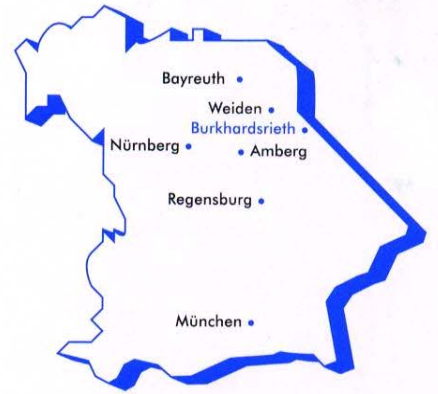
Wire elongation measuring technique





We greatly look forward to hearing from you. Convince yourself of our efficiency, and you will see... you will keep coming back to us. For our name stands not only for the highest standards of quality, but also for the highest possible degree of flexibility when it comes to customer requirements.

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Friedrich Die Kernters in Burkhardtsrieth. The right address for genuine quality.



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