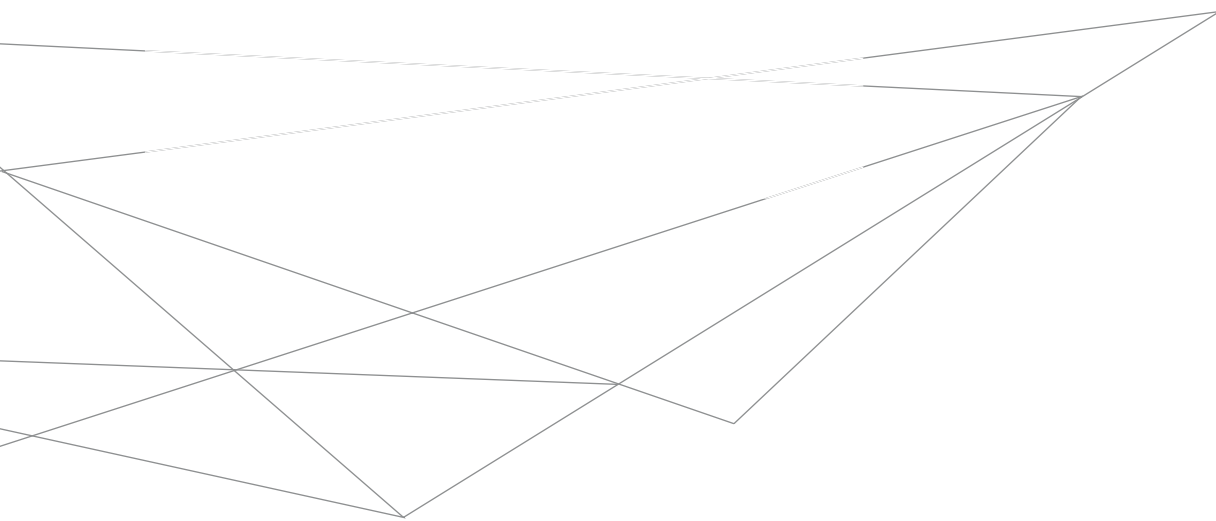
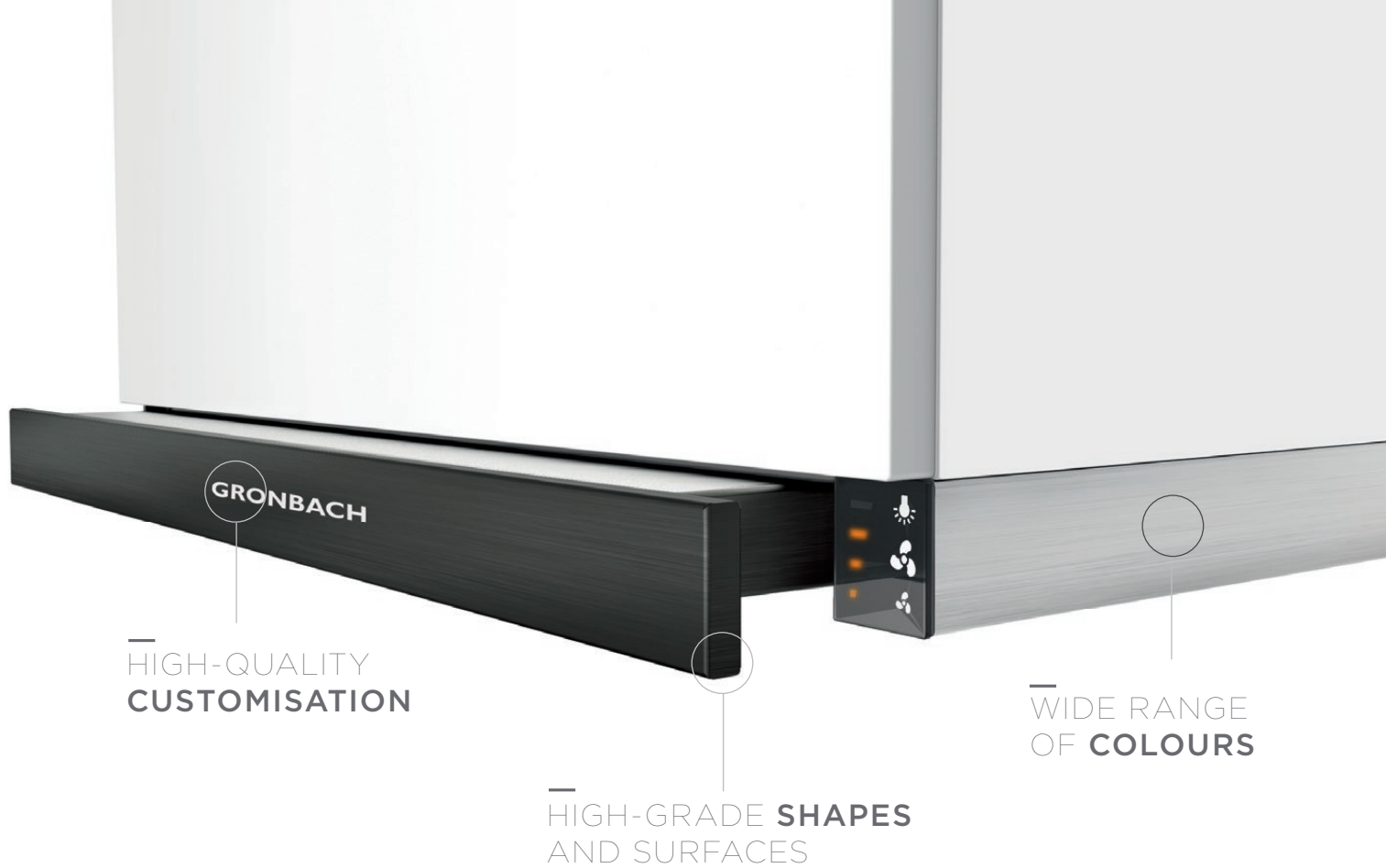


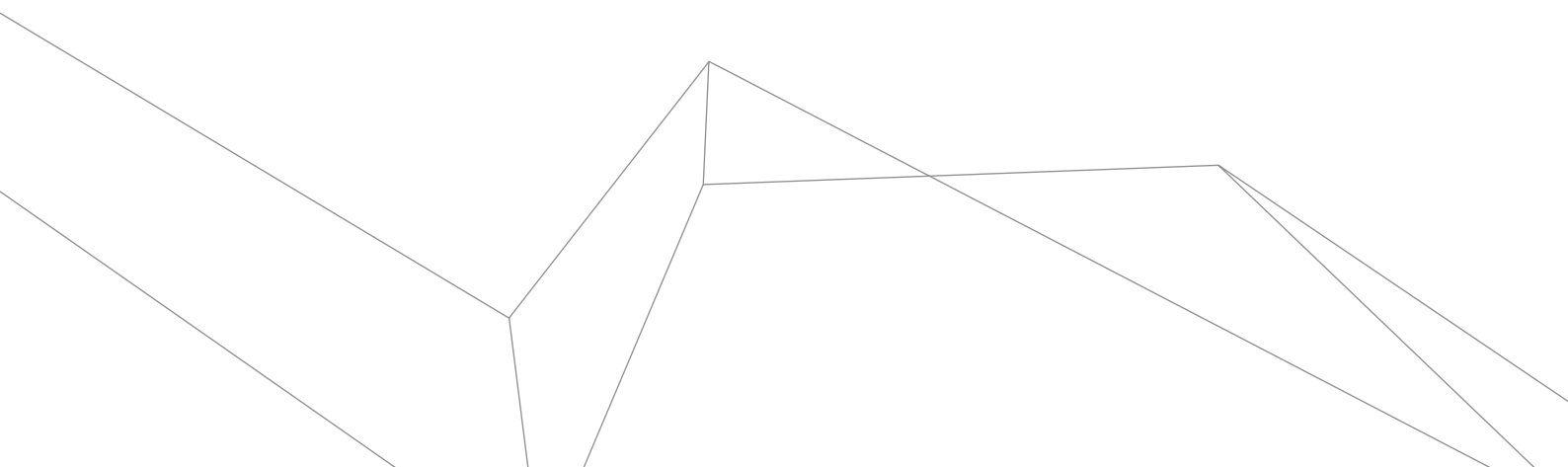
# PERFECT SURFACES



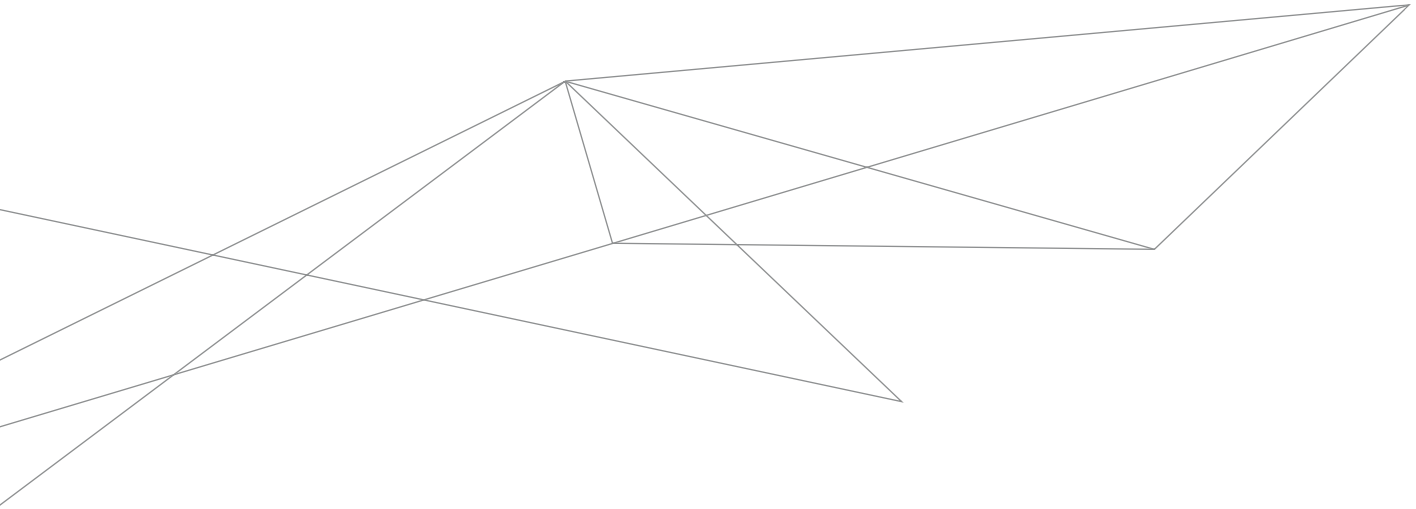
**GRONBACH**



Metals create the longest-lasting and most attractive surfaces. Demands for high-quality shiny stainless steel or for fine, matt-finished aluminium can't be satisfied by anything else. Metals have an exquisite look and feel. They enable individualised designs and have an unbeatable quality. We have been working metals into optical masterpieces for over 50 years.

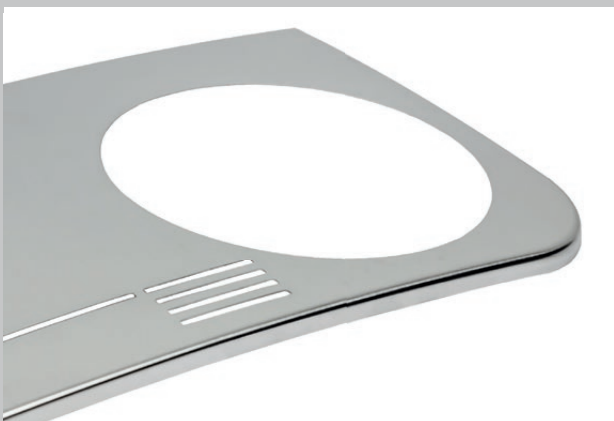


# HIGH-GRADE **SHAPES** AND SURFACES



We have an almost endless range of options for the mechanical treatment of surfaces. Thanks to our decades-long experience, we are able to manufacture stainless steel from 0.1-1mm – from pressing and bending to the deep-drawing of complex geometries.

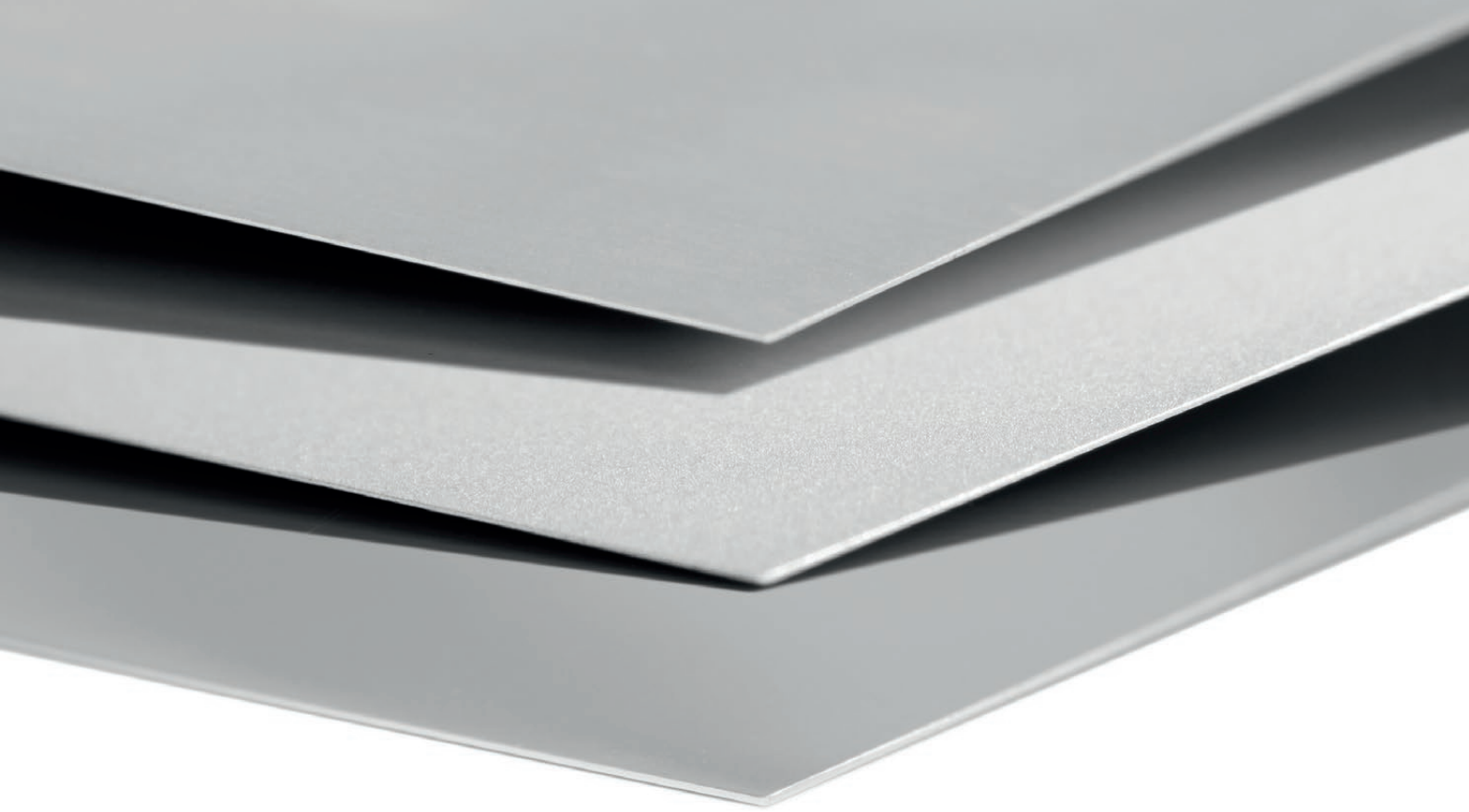
We turn aluminium into the thinnest foils, 5mm strong sheets, or into even stronger extrusion profiles in the form of your choice – from fine silhouettes to heavy profiles. We produce all our tools and equipment, and so from the very beginning we can determine the quality ourselves.



DEEP-DRAWING



TURNING

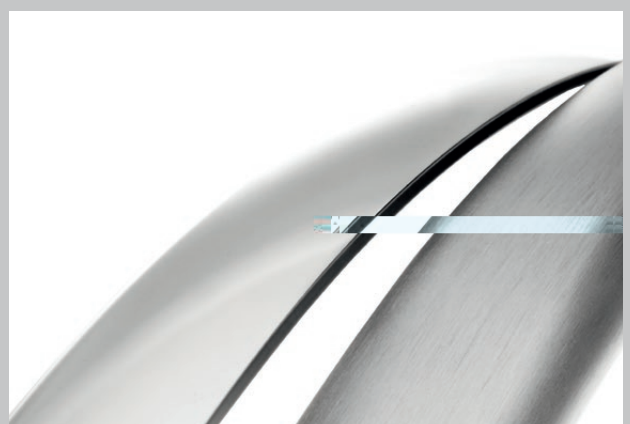


We grind, brush, polish or blast metal surfaces according to the concepts of our customers, in every conceivable degree of refinement. Through the application of different grinding patterns, the metals develop a wide range of different effects – from the fine, light demands of a finishing polish to the weight and depth of a roughly ground surface.

Each processing type can be up to 100 % reproducible, thanks to cutting-edge robotic technologies. Milling and turning is also carried out on site, in every variation possible.

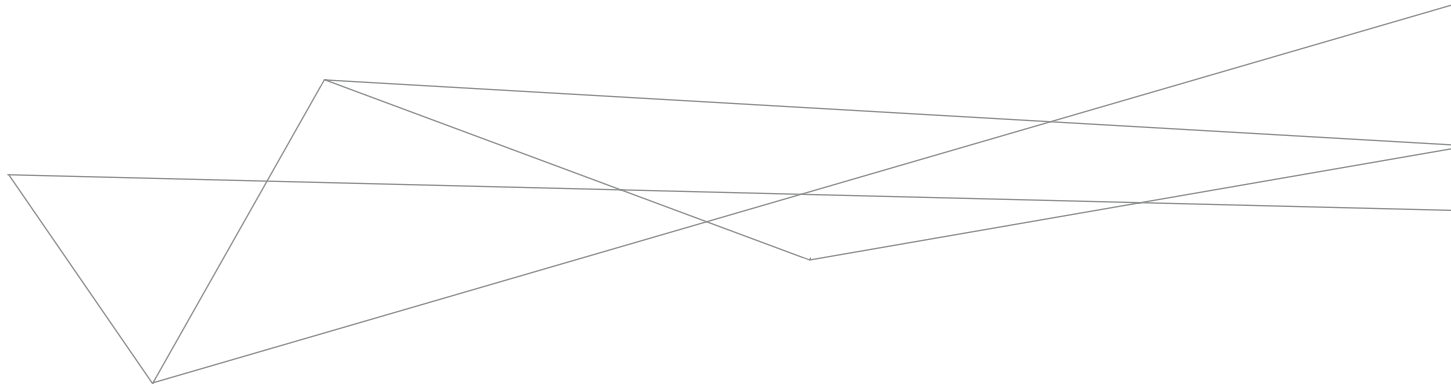


BLASTING



POLISHING, GRINDING

# HIGH-QUALITY CUSTOMISATION



In order to give your product a refined, individual note, we have mastered a range of product branding processes.

## SUB-ANODISED PRINTING

Here the printing colour is pressed into the unsealed open pores of the surface, depositing it within the structure of the aluminium. The part is then anodised after having been printed, sealing the colours in to make them long-lasting and extremely resistant.

## ETCHING TECHNOLOGY TO GIVE ALUMINIUM STRUCTURE

Our special etching processes can create tactile, or, rather, three-dimensional logos out of the same alloy as the carrying material. The anodic processing allows specific areas to be more deeply etched and so three-dimensional designs, also in different colours and with matt or gloss effects, to be created.



SCREEN- AND TAMPON PRINTING  
WITH UV PROCESSES



ETCHING TECHNOLOGY

GRONBACH

### SCREEN- AND TAMPON PRINTING WITH UV PROCESSES

We developed this special UV-printing process in order to meet the high requirements of the *Gitterschnitt* and Ericson tests and to guarantee a long lifetime. In the same way, we can print with four or five colours directly onto the base material with the latest digital printing technology.

### LASER ENGRAVING

Inscribing surfaces with lasers is the latest technology for demanding texts. It is ideally suited to the visual presentation of operating functions on appliance trims or other surfaces.

### BACK-INJECTING

With synthetic hybrid technology, we can combine metals and plastics through back-injection, in order to exploit the advantages of different materials in the most effective way, and to enable strong bonding with a high degree of design flexibility. With respect to the personalisation of your products, this process offers numerous customised solutions in the highest quality.

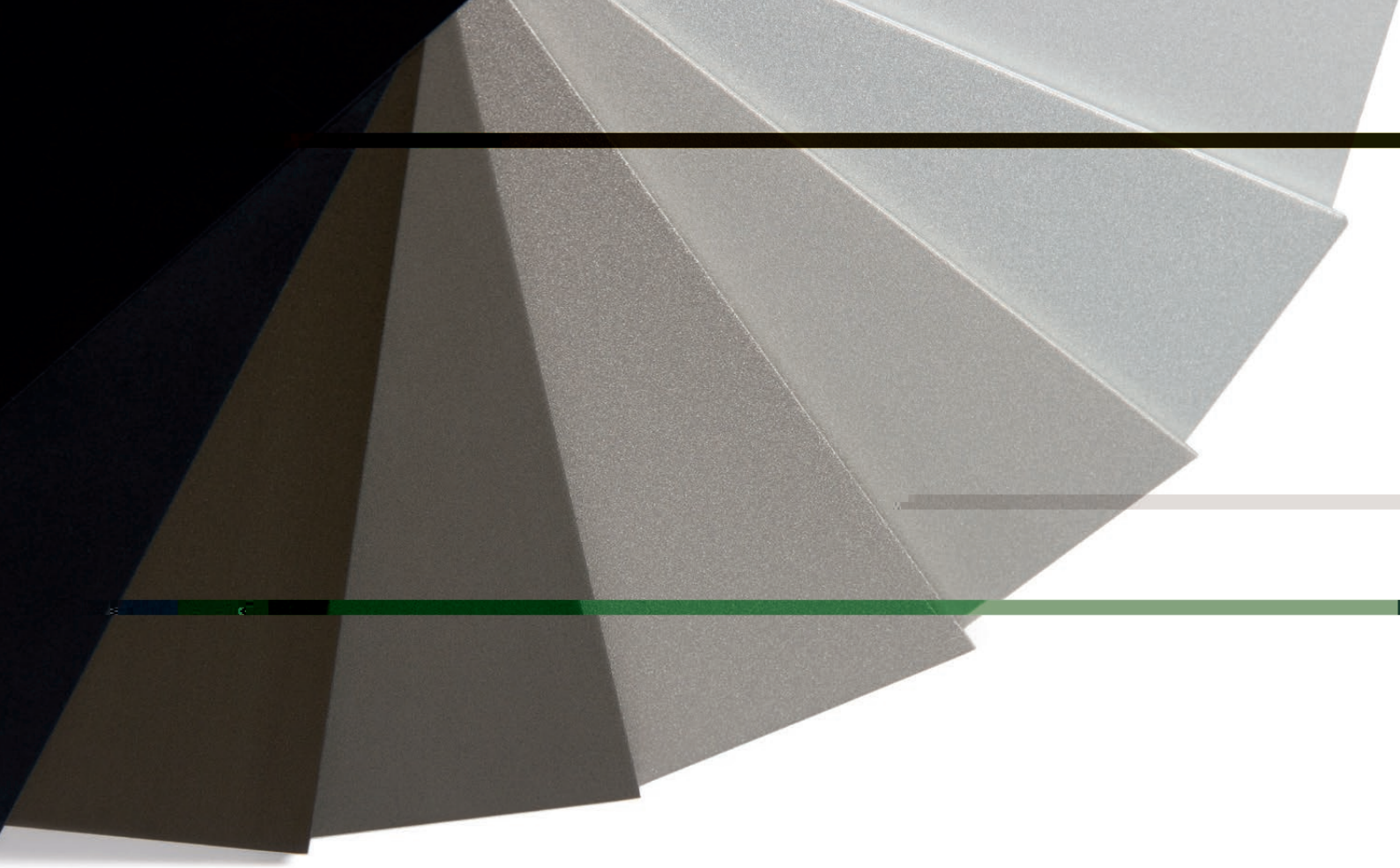


BACK-INJECTING



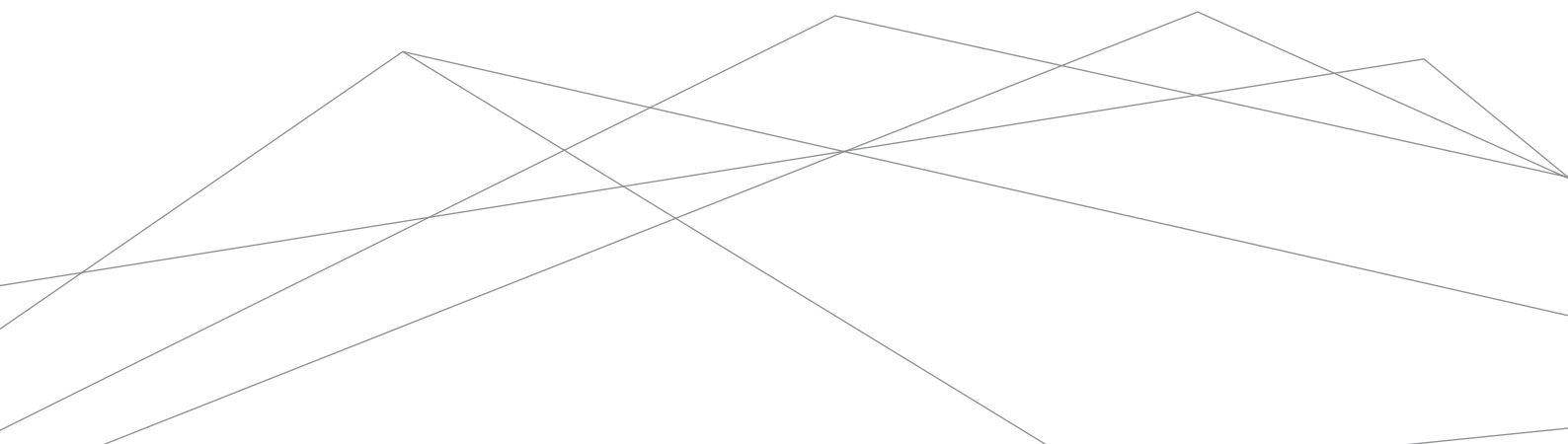
LASER ENGRAVING





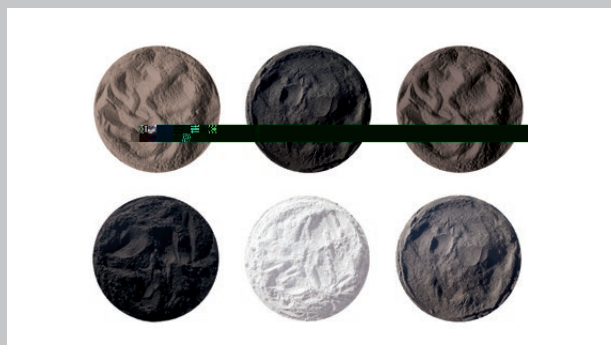
# WIDE RANGE OF **COLOURS**

Aluminium finishing with anodising baths and powder coating have been one of the core competencies of GRONBACH for decades. Our development department can realise the customized ideas in your orders and can perfectly match all your specifications – as simply and cost-effectively as possible, without losing sight of the demand for excellence in design and quality.



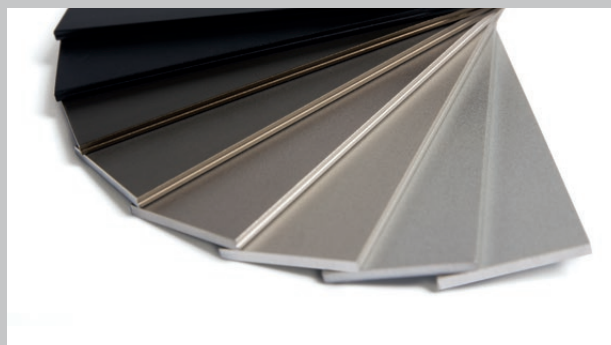
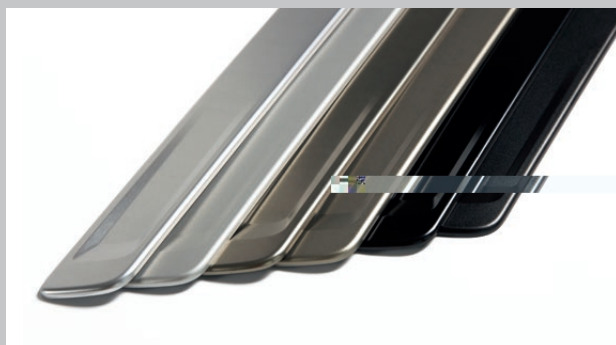
## POWDER COATING

We can process any and every colour through powder coating – we produce RAL standard colours and deliver just-in-time. We use polyurethane, polyethylene, epoxy and mixed powders in the easy-to-clean, hot-fat-powder, and standard options, allowing us to offer the end customer additional properties as required, such as ease of cleaning.



## ANODISING

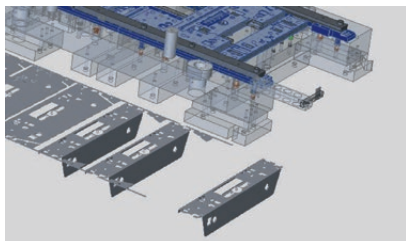
A refined palette of colours, from natural aluminium and bronze through to black, is available to us for anodic coating. We can anodise the extremely scratch-resistant and decorative designer surfaces in lengths up to 3m.



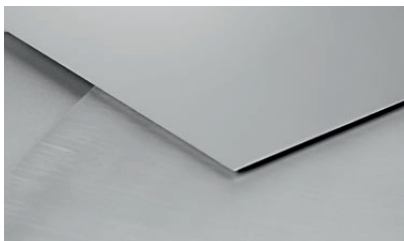


# WASSERBURG

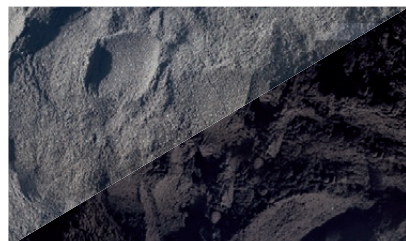
THE FACTORY WITH A LONG TRADITION



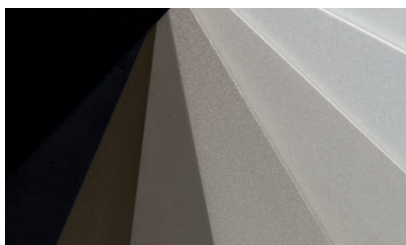
TOOL MANUFACTURING



MECHANICAL TREATMENTS



POWDER COATING



ANODISING



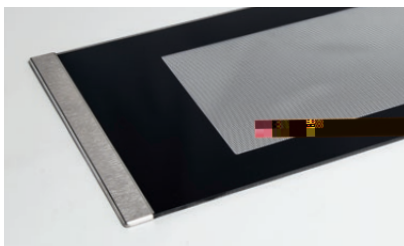
CUSTOMISATION



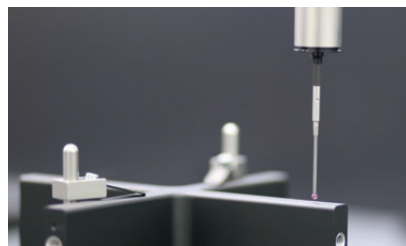
HYBRID TECHNOLOGIES



PLASTIC TECHNOLOGIES



ASSEMBLY PRODUCTION



QUALITY ASSURANCE

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