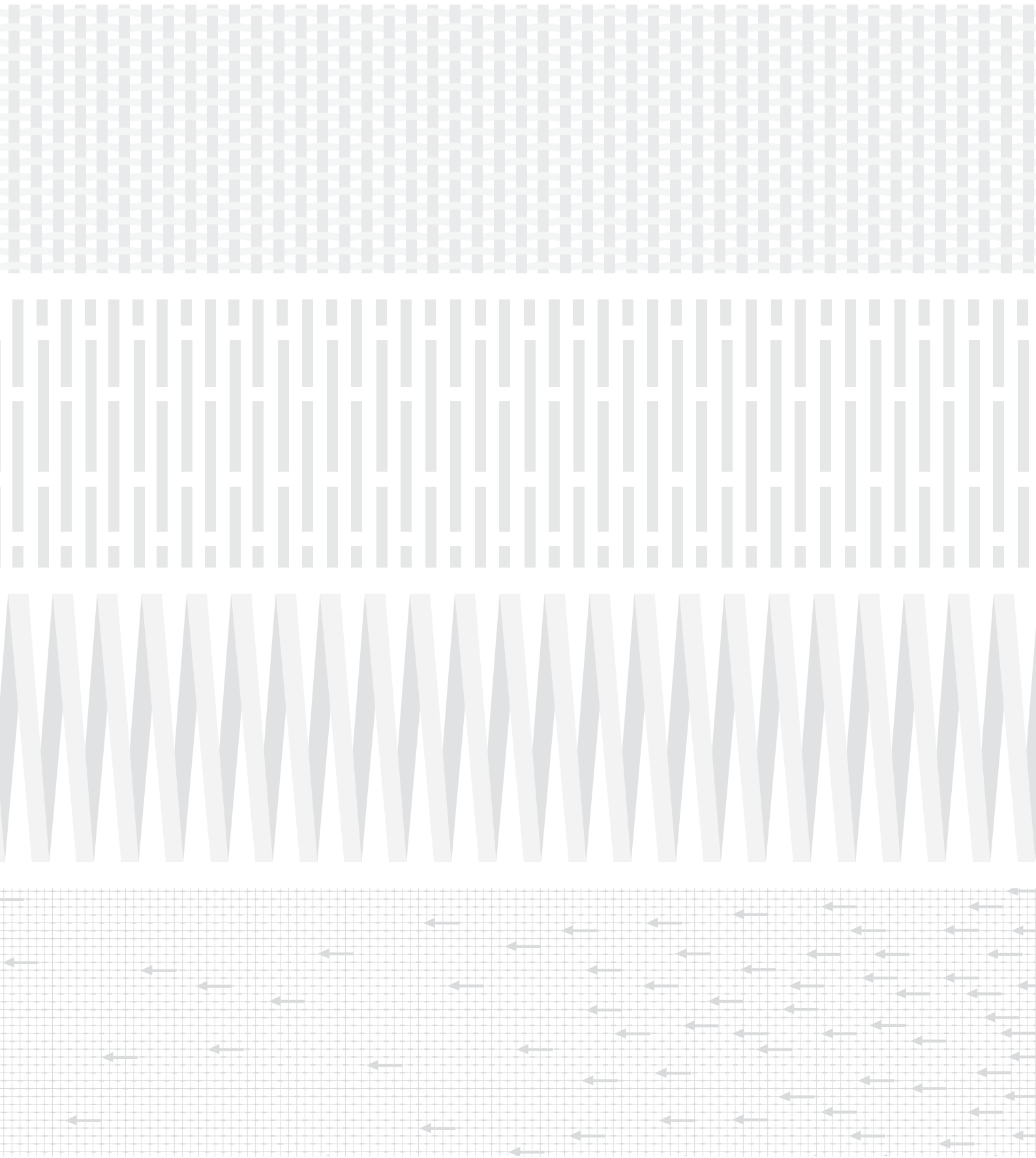


TECHNICAL
WEAVERS
FOR INDUSTRY +
ARCHITECTURE



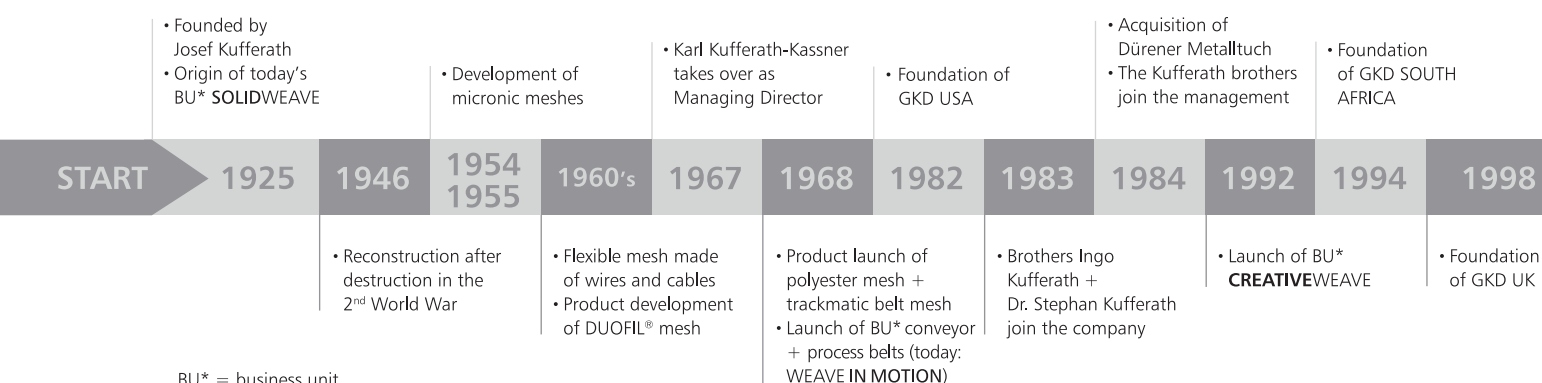
WORLD WIDE WEAVE



WORLD WIDE WEAVE: WE HAVE A GLOBAL PRESENCE

We take the term “market proximity” literally. Our aim is to be the leader in servicing technically challenging key markets all over the world and we live this out through our global presence. We manufacture where the markets are. For us, service is not a question of location, but rather of functioning international processes and is the driving force for long-term partnerships. Our eight manufacturing facilities in Europe, USA, Chile, South Africa and Asia, as well as our representatives and partners in over 30 countries work to make this vision a reality. With this international network of expertise, we are ideally placed to support our customers where they are and thus right where their value creation begins.

- ① GKD GERMANY
Düren
- ② GKD UK
Sherburn in Elmet
- ③ GKD FRANCE
La Rogue d'Anthéron
- ④ GKD SPAIN
Barcelona
- ⑤ GKD USA
Cambridge
- ⑥ GKD LATIN AMERICA
Santiago de Chile
- ⑦ GKD SOUTH AFRICA
Randfontein, Johannesburg
- ⑧ GKD INDIA
Jaipur
- ⑨ GKD CHINA
Beijing
- ⑩ GKD MIDDLE EAST
Dubai
- ⑪ GKD MIDDLE EAST
Doha



GKD SOUTH AFRICA

GKD BUISMET (PTY) LTD

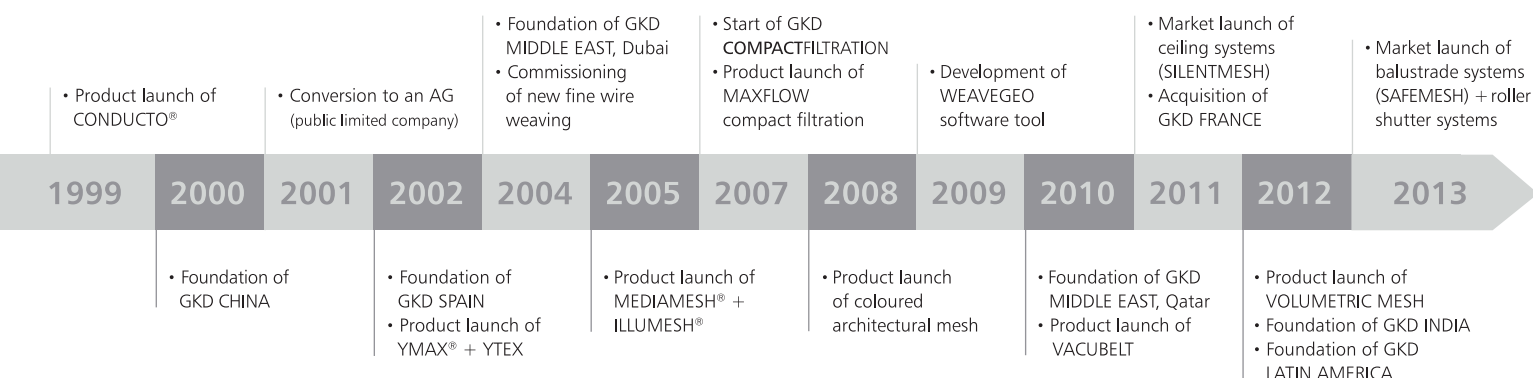
18 Fiat Street (Cnr. Fiat and Chrysler Streets) | Aureus Ext. 3 | Randfontein | 1760 | South Africa

P.O. Box 6175 | Greenhills | Randfontein | 1767 | South Africa

T: +27 (0)11 412 4770 | F: +27 (0)11 412 4770 | E-mail: gkdrsa@gkd.co.za | Web: www.gkd.co.za

GKD SOUTH AFRICA in Randfontein is the largest subsidiary within the GKD group and was founded in 1994. Here we develop and manufacture special Belts for challenging manufacturing processes in the mining, chemical, paper, food, oil, waste water and non-wovens industries. Alongside the Republic of South Africa and the African continent south of the Sahara, other specific markets also include Australia, South America, USA and Russia.

In addition to this core competence, **GKD SOUTH AFRICA** offers additional services from our wide range of solutions on premises covering an area of 20,000 m². In the **SOLIDWEAVE BU**, we manufacture many mesh types in South Africa and provide a holistic service for the local screening and filtration market. **WEAVE IN MOTION** supplies the metallurgical, paper, sewage, non-wovens and chemical industries with high quality Process Belt solutions and service. That is not all – architectural and design Mesh are also increasingly in demand in **GKD SOUTH AFRICA**. **CREATIVE WEAVE** supports architects and planners with comprehensive service, pre-assembly, fastening technology, as well as installation. **FINE FILTRATION** specializes in the filtration of difficult to treat slurries from an extensive range of Filtration Fabrics. With our newest BU, **GKD MINING AND INDUSTRIAL SERVICES**, we offer the full range of Polyurethane Panels, as well as Heavy Meshes and all associated Spares for all the equipment types that we supply.

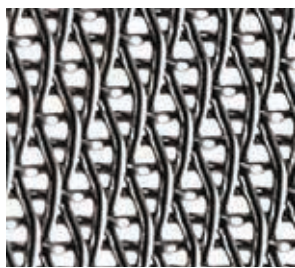


SOLID WEAVE: WE TURN CONCEPTS INTO TECHNICAL REALITIES

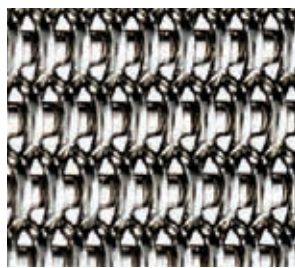
GKD **SOLID WEAVE** develops and produces precision Mesh and Filtration systems and filtration systems utilising various grades of metal, polymers and other high performance materials. Innovative technologies, creative ideas and the courage to try out new solutions are behind the success of our Filtration Media in the field of mechanical process engineering. Our understanding of maximum customer benefit is rounded off by fast implementation and cost leadership. As a technological leader, we continuously develop our products in accordance with customer requirements and market trends. The high innovation rate is compelling evidence of our comprehensive laboratory and process expertise with the majority of our products being less than 5 years old.



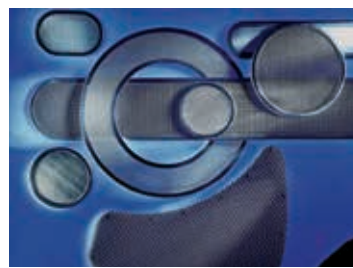
Local GKD Weaving Platform



TELA mesh



PZ-Microdur mesh



Filter Elements



Our Filter Media is considered especially efficient and economical regardless of whether they are intended for universal deployable products, components for series manufacturing or complex individual solutions. With our own simulation methods and testing techniques, we integrate this Filter Media seamlessly into the customer's process.

Our developments are acknowledged across all industries as standards for many industrial applications.

Electronic manufacturers use our Filters in inkjet printers or as shielding against electro-magnetic radiation. The automotive industry uses our Mesh for diesel particulate filtration, in exhaust gas after treatment and in hydraulic systems. Ship chandlers use them for ballast water filtration. In the aerospace industry, our Meshes are used in lightning protection applications or noise insulation of jet engines. The chemical, pharmaceutical, plastics and foodstuff industries place their trust in our Meshes for demanding filtration tasks. In the energy and environmental technology sectors, our Meshes have become successfully established.

SOLIDWEAVE at a GLANCE

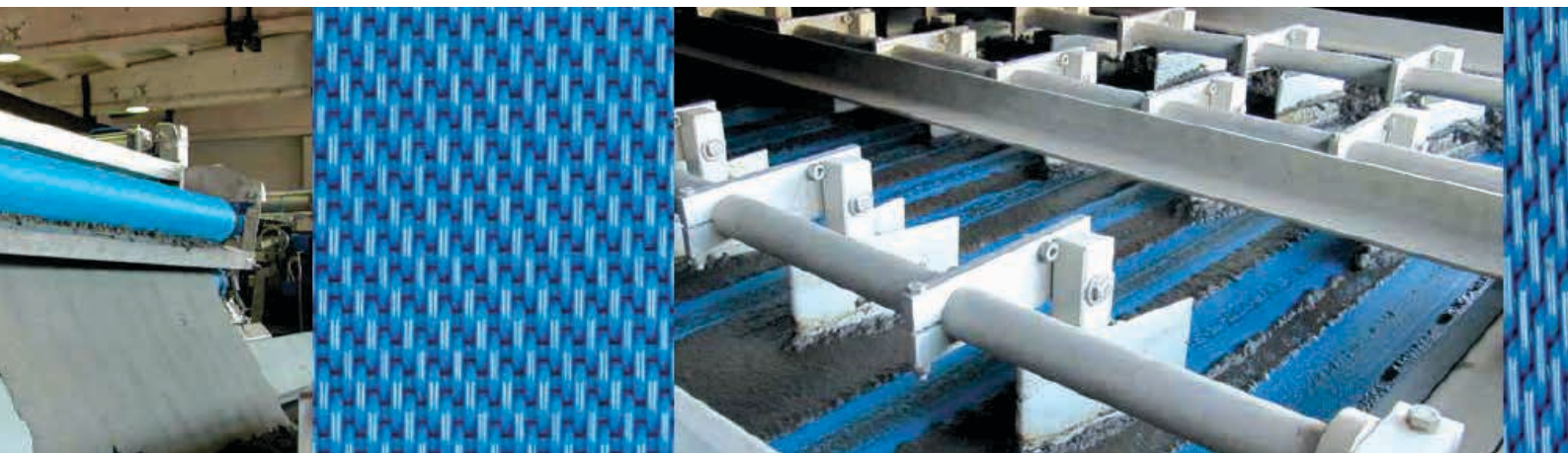
- INNOVATIVE RANGE OF MATERIALS
 - PRECISION MESH
 - COMPLEX FILTER SYSTEMS
 - UNIVERSAL PRODUCTS
 - STANDARDS ACROSS ALL INDUSTRIES
 - CUSTOMER SPECIFIC SOLUTIONS
 - LEADING MANUFACTURING EXPERTISE
 - THE LATEST SIMULATION AND TESTING METHODS
 - CONTINUOUSLY CERTIFIED QUALITY
-

WEAVE IN MOTION: WE GET PROCESSES MOVING

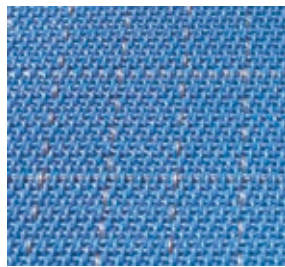
Woven Process and Conveyor Belts from GKD WEAVE **IN MOTION** are part of a multitude of industrial processes. With the latest weaving technologies and our comprehensive process knowledge make us a sought after manufacturer of metal and plastic Process Belts. With innovative material combinations and customer specific pre-assembly processes, we adapt the Belt properties to the respective application. This customised product functionality is behind our reputation as a partner for individual Process Belt solutions.



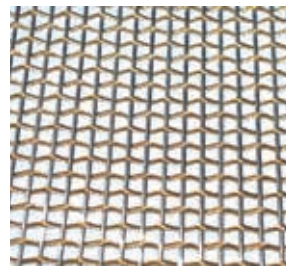
Plastic mesh manufacturing and applications



GKD-PAD-Seam



CONDUCTO®



Bronze/stainless steel mesh



V-crimp type Trackmatic™ belt

We work together with machine manufacturers to develop standard modules or special solutions. With expertise across a range of applications, ready to install Belts and outstanding service, we offer our customers a high degree of added value from the very first planning phase. Our Belts are proven in drainage, compression and filtration as well as embossing, cooling, freezing and drying, forming and washing applications. Manufacturers of glass, non-wovens, nappies, mineral fibres, chipboard and fibre board, corrugated cardboard and foodstuffs use our metal Belts in numerous pressing, embossing and temperature controlled processes.

Our Belts with anti-electrostatic properties or anti-stick coating, optimise the production of non-wovens. Furthermore the anti-static Belts also efficiently facilitate the drying of wood chippings or biomass. For the production of insulating material or phosphoric acid, our robust composite Meshes have proven themselves time and again. Our plastic Belts impress in the fields of sludge dewatering, gypsum filtration in flue gas desulphurisation plants and in the fruit juice and non-wovens industries.

WEAVE **IN MOTION** at a **GLANCE**

- INNOVATIVE MATERIAL COMBINATIONS
 - LEADING WEAVING TECHNOLOGY
 - CROSS SECTOR EXPERTISE
 - TAILOR MADE FUNCTIONALITY
 - CUSTOMISED PRE-ASSEMBLY SOLUTIONS
 - EFFICIENT NEW DEVELOPMENTS
 - HOLISTIC PLANNING SUPPORT
 - READY TO INSTALL BELTS
 - PERFECT SERVICE
-

CREATIVE WEAVE: WE GIVE SHAPE TO IDEAS

GKD **CREATIVEWEAVE** is synonymous with Architectural Mesh. For over 20 years, our technologically leading solutions have inspired architects to create pioneering structures all over the world. We have systematically enhanced the visual versatility and functionality of our Meshes. Innovative material combinations and holistic system solutions are the key to design freedom and planning reliability.

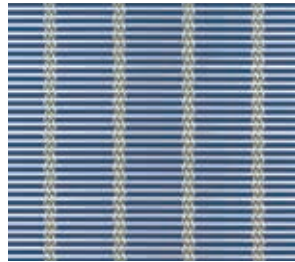
With the development of transparent Media Facades, we have added a new chapter to the international success story of our Architectural and Design Meshes. Numerous prestigious awards vouch for the design, degree of innovation and cost effectiveness of these architecturally integrated systems.



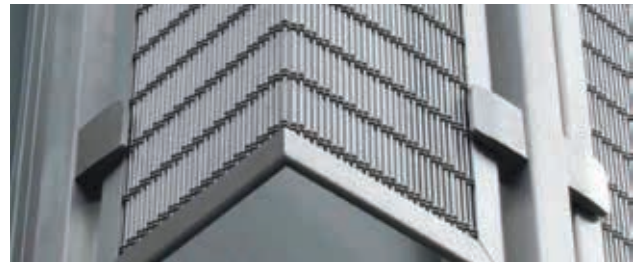
External facade - New Town, Johannesburg



Grid mesh



Cable mesh



Fastening technology

We combine our broad product spectrum and wealth of expertise in our role as a system supplier. We support architects and planners from the initial idea right through to the finished project, all from a single source with customer specific individual solutions or our own systems.

Through complex, seemingly contradictory impressions and properties, our metallic Meshes open up a new world of design time and again, in the inter-play between aesthetics and function, lightness and robustness, transparency and reflection, screening and view, day light and sun protection, climate control membrane and weather protection, low maintenance and durability, intrinsic effect and media display or elegance and acoustics. They optimise the environmental performance of buildings and are thereby gaining in importance for the future of building and Green Building certification. In public buildings, commerce and property construction, they lend design ideas and functional requirements an unmistakable face.

CREATIVEWEAVE at a GLANCE

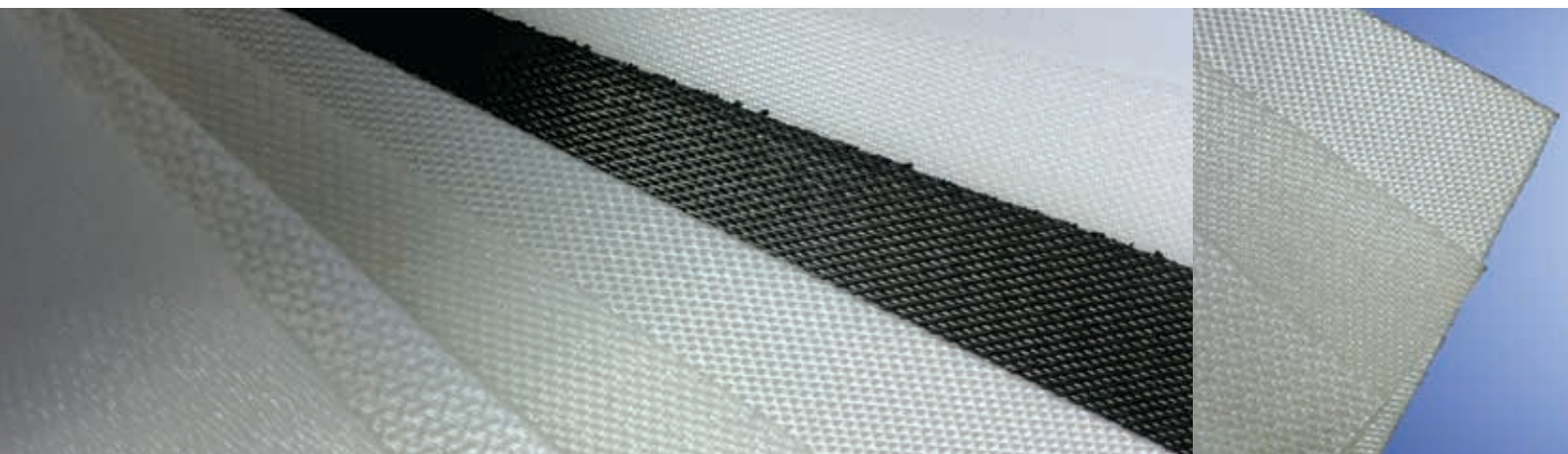
- INSPIRING ARCHITECTURAL MESH
 - TECHNOLOGICALLY LEADING SOLUTIONS
 - INNOVATIVE FUNCTIONALITY
 - INDIVIDUAL AESTHETICS
 - MULTI-FUNCTIONAL PROPERTIES
 - TAILOR MADE PRODUCTS
 - OUR OWN SYSTEMS
 - INTEGRATED SOLUTION EXPERTISE
 - TRANSPARENT MEDIA FACADES
 - OPTIMISED ECOLOGICAL LIFE CYCLE FOR BUILDINGS
 - HIGH QUALITY INTERIOR + EXTERIOR APPLICATIONS
 - REFERENCES WORLDWIDE
 - SUSTAINABLE MATERIALS
-

FINE FILTRATION: WE COMBINE COMPETENCIES

GKD **FINE**FILTRATION combines our many years of expertise in filtration with innovative process engineering. Filtration equipment is used in a huge variety of different applications, from dewatering of mining slurries to blood plasma purification. For these filtration processes the correct type and fit of filtration Cloths needs to be selected. GKD offers Filter Cloths for optimum performance for virtually any application from our extensive range of filtration fabrics.



Disc Filters



Filter Fabrics



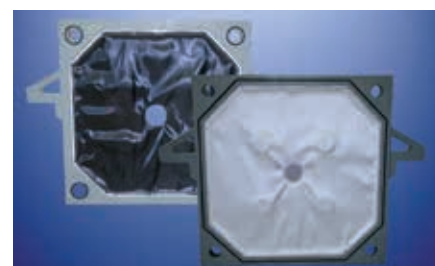
Clothed Filter Plates



Filtered cake



Filter Plates with Filter Cloths



To resist chemical attack during operation, a suitable fibre composition is selected from the typical ranges of Polypropylene, Polyester, Polyamide (Nylon) and Rilsan, amongst others.

For harsh applications more sophisticated compositions are used, such as PVC, Teflon and PVDF, amongst others.

Typical yarn types used to weave these fabrics are Monofilament, Multifilament and Spun yarns.

The cloth types can be varied by combining the different yarn types when weaving the fabrics resulting in Monofilament, Multifilament, Spun yarn, Monofilament/Multifilament, Spun yarn/Multifilament and Spun yarn/Monofilament fabrics.

GKD has technical staffing which includes qualified Metallurgists who are able to gather process information, analyse current performances and make recommendations to optimize the equipment and Filter Cloth performances.

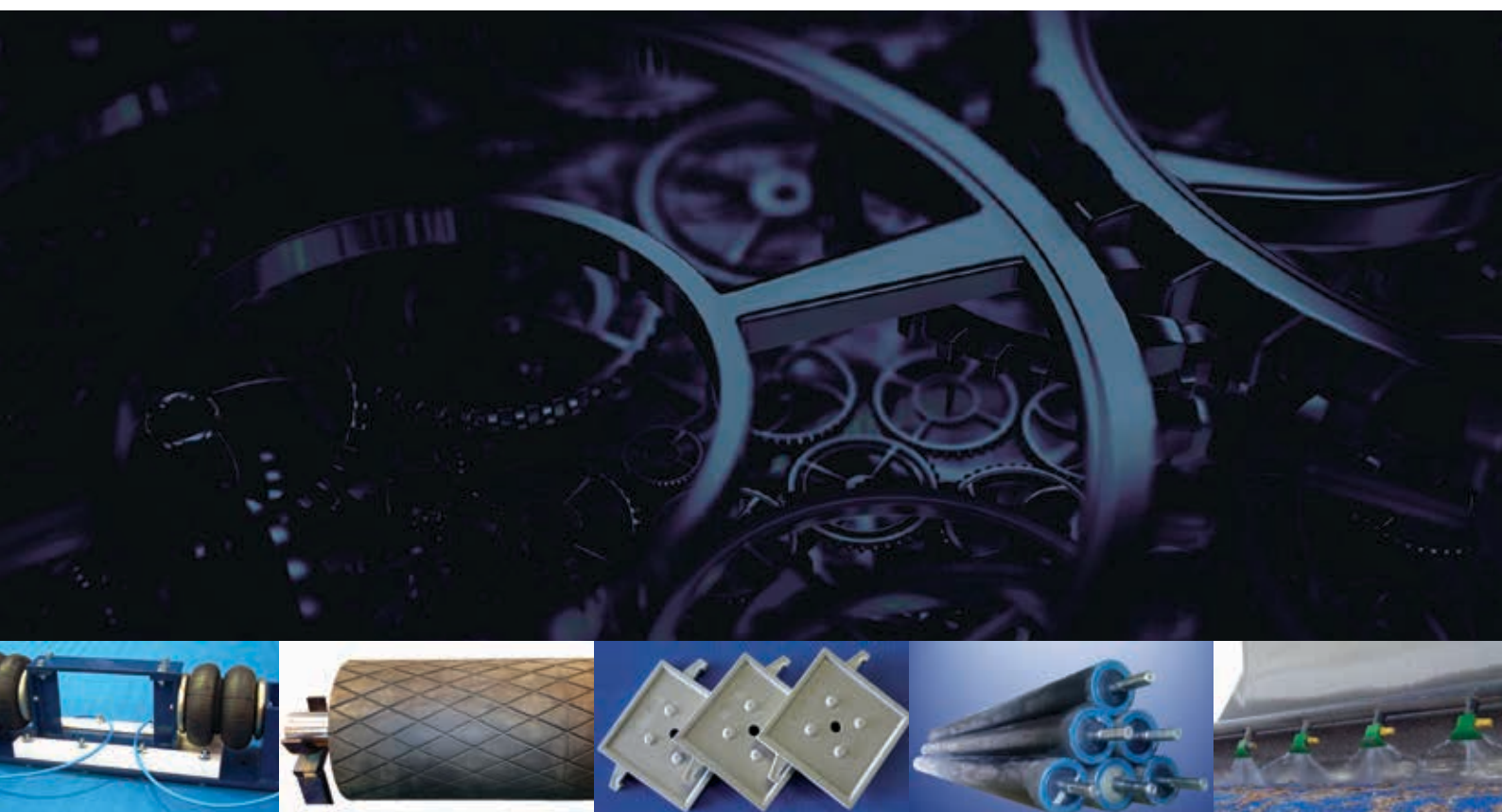
FINEFILTRATION at a GLANCE

- COMPACT FILTRATION
 - NUMEROUS CLOTH COMPOSITIONS
 - WIDE SELECTION OF CLOTH TYPES
 - TECHNICAL STAFFING FOR OPTIMIZATION
 - CUSTOMISED SOLUTIONS
 - 24 HOUR PRODUCTION FACILITY
 - CLOTH INSTALLATION SERVICE
 - RAPID DELIVERIES
 - EMERGENCY ORDERS
-

SPARE PARTS: WE KEEP MACHINES MOVING

Our GKD **SPARE** PARTS division offers various spare parts for Belt Presses, Horizontal Belt Filters, Linear Screens and Filter Presses, amongst others, which are readily available from the GKD Spares and Consumables Department. The GKD range of spares are of a superior quality and far outlasts their expected service life.

GKD supplies most of the spare parts to the different types of equipment used in the screening and filtration industries. Our parts are either manufactured in-house or sourced directly from suitably chosen original manufacturers with prices always being competitive and quality never compromised.



Complete Tracking Unit, Pulley, Filter Press Plates, Rollers & Spray Nozzles



Filter Fabrics & Curbing



Rollers with Filter Cloths



Tracking Unit



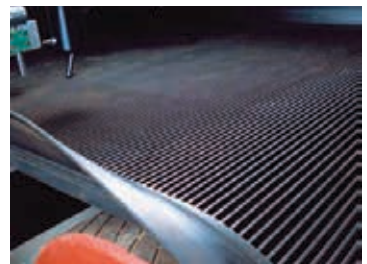
GKD Self-Cleaning Spray Bar



Tracking Bellows



Sludge Ploughs



Carrier Belt & Curbing

Rollers

Rubberlined Rollers
Bowed Rollers
Feed Dam Rollers
Guide Rollers

Pulleys

Head Pulley

Tracking

Full Tracking Units
Tracking Unit Covers
Slides
Moisture Trap and Oiler

Cloth Washing

Self-Cleaning Spray Bars
Spray Nozzles

Electrical Spares

Limit and Trip Switches

Mechanical Spares

Vacuum Pumps
Carrier and Wear Belts
Gear Boxes
Air and Vacuum Boxes
Bearings and Bearing

Covers

Return Rollers
Take-up rollers
Dynamic Tensioning
Rollers

Tail Pulley

Tracking Valve and
Paddle
Bellows
Filter Regulator

Standard Spray bars
Splash Skirts

Trip Cord

Vacuum Ancillaries
Curbing
Feeders
Seal Strips
Distribution Screens

SPARE PARTS at a GLANCE

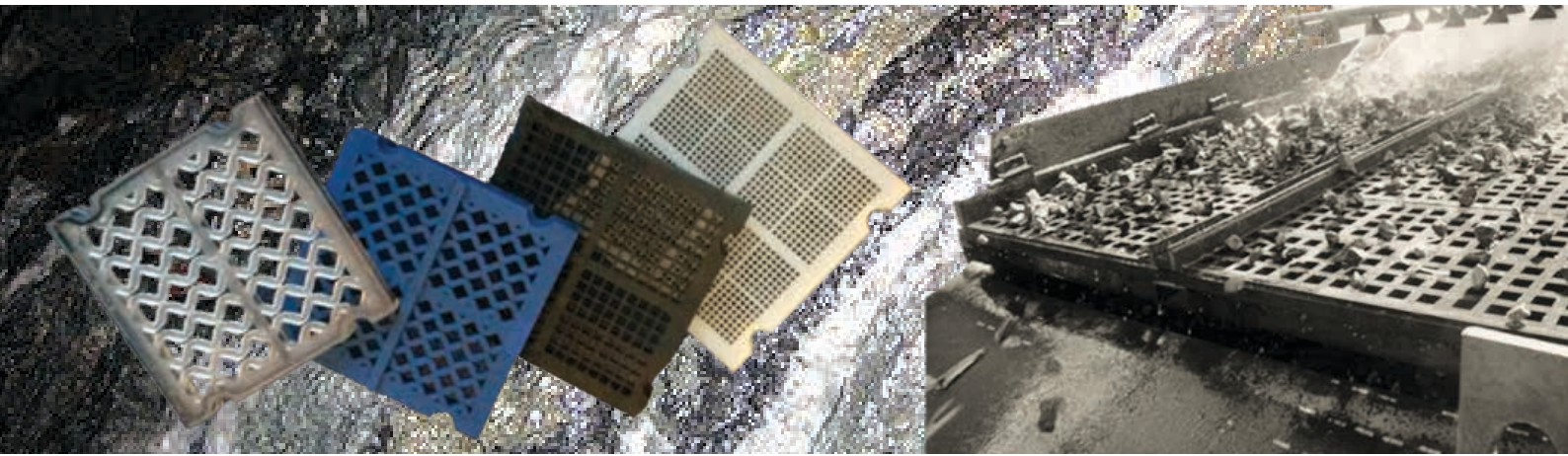
- COMPLETE TRACKING UNITS INCLUDING BELLOWS, TRACKING VALVES AND PADDLES
 - RUBBER LINED ROLLERS
 - DRIVE AND TAIL PULLEYS
 - SEMI-AUTOMATIC SPRAY BARS AND NOZZLES
 - GEAR BOXES
 - CARRIER BELTS AND CURBING
 - FILTER PLATES AND ACCESSORIES
-

VIBRATORY SCREENING: WE GET SOLIDS SHAKING

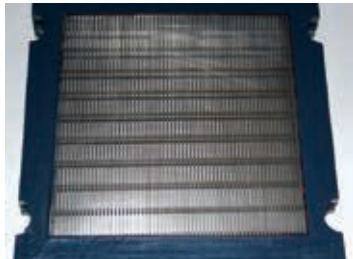
GKD **MINING AND INDUSTRIAL SERVICES** combines our many years of expertise in screening and filtration with innovative engineering. The modular Polyurethane Screen Panel has revolutionized the mining industry. At GKD, we have further developed our Panels to create a new and patented 'state of the art' composite Internal Frame, reducing the weight of our Panel without jeopardising the durability of the Panel which is environmentally friendly. We currently have a wide range of Panels with apertures varying from 0.3 mm up to 100 mm square apertures in various thicknesses and surface features. We have a wide range of Dies available for almost every application and with our fully equipped modern Tooling Department, we are able to manufacture new Dies in a very short space of time.



Different types of Polyurethane Panels



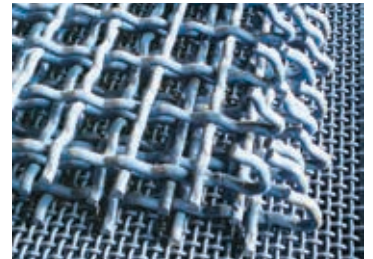
Heavy Duty Rubber Panel with mesh



Wedge Wire Panel



Special Anti-Bacterial Panel



Heavy Mesh Screen

GKD **MINING AND INDUSTRIAL SERVICES** have also manufactured a new POLYtuff Panel with non-blinding characteristics, a substantially higher wear resistance, a softer compound and reduction of pegging that causes blinding. Talk to us about our case studies which are impressive in terms of results achieved against opposition companies.

Screen Panel Types:

Slotted apertures
Square apertures
Round apertures
Oval apertures
Solid Panels
Flexi Panels
Hand Castings

Polywedge
Wire Insert
Rubber: PL40/60
High Heat
Anti Bacterial
Food Grade

Surface Features:

Weir Bar (L-Shape)
Restricted Flow (RF)
Dividers

Skid Bar (SB)
Deflector (DF)

VIBRATORY SCREENING at a GLANCE

- FAST TURNAROUND TIMES FOR DIES AND PANELS – 2 WEEKS MAXIMUM
 - LIGHT WEIGHT PATENTED DESIGN
 - FULLY RECYCLABLE AND ENVIROMENTALLY FRIENDLY
 - WIDE RANGE OF APERTURES AND THICKNESSES
 - VIBRATING SCREENING SYSTEMS
 - MAINTENANCE CONTRACTS
 - FULL RANGE OF HEAVY WOVEN SCREENS MANUFACTURED IN-HOUSE
-

LABORATORY FILTRATION SERVICES: WE ADVANCE TECHNOLOGY

Filter Media Evaluation through Filtration Tests

Since total commitment to quality is one of our key factors (core competences), before the use of our filter media, GKD offers filter media evaluation through filtration tests with state of the art filtration test equipment. Complimented by our more than 50 years of filtration experience, GKD is able to tailor make the filter media to the customer's specific requirements.

Engineering of Filter Parameters

We have reached our present size and importance not only by the use of modern technologies, but also by our commitment to individual solutions to solve our customer's problems and conscious innovation to meet the demands of our clients. We have the ability to design, optimize and service filtration equipment with the full backing of our principals in Germany.

Modern Simulation and Testing Processes

Filter parameters tend to vary in real practice due to one or a combination of external factors affecting the filtration process. In GKD's new state of the art laboratory, we have the capability to simulate these varying properties to investigate, illustrate practical conditions and optimize the filtration process to improve productivity amidst the varying external conditions.



