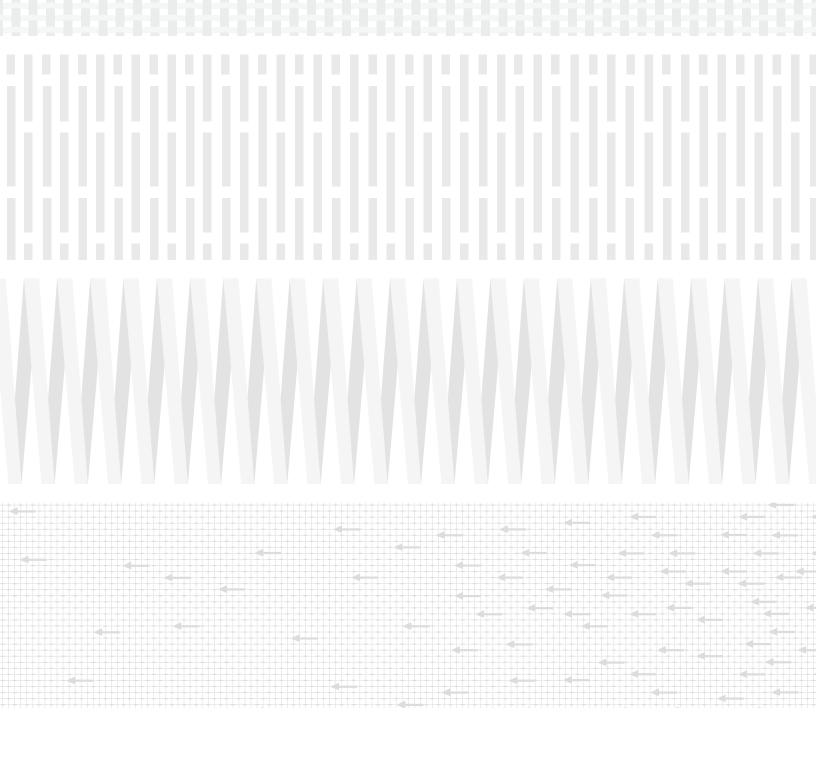


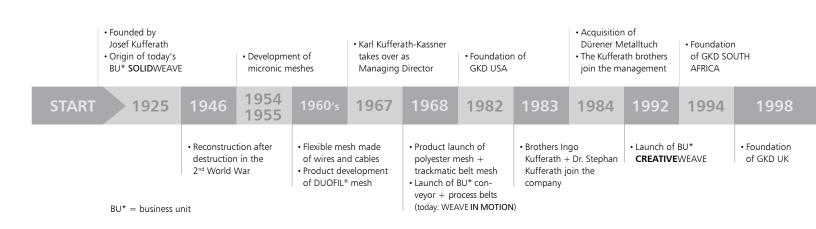
WE CREATE EXCEPTIONAL SOLUTIONS.



GKD GEBR. KUFFERATH AG: WE SEEK OUT PIONEERING ANSWERS.

We have successfully trodden the path of innovation since 1925. Weaving metal and other materials is our core competence. All over the world, the name of GKD is a byword for pioneering technology, first-class quality, interdisciplinary thinking and creative problem-solving. Our passion for extraordinary solutions makes us the world's leading technical weaving mill for industry and architecture. With a clear focus on demanding niche markets, our medium-sized, owner-managed company has become a globally sought-after development partner, manufacturer and supplier.

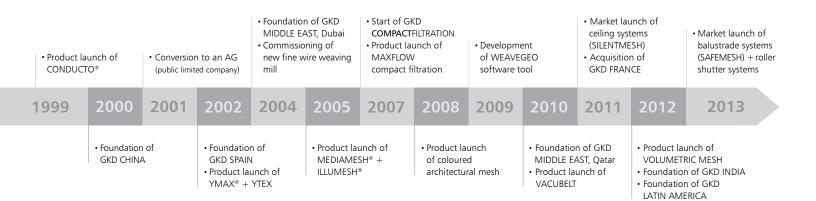
Under the GKD – WORLD WIDE WEAVE brand we bundle our competencies in four independent business units: **SOLID**WEAVE (industrial mesh), WEAVE **IN MOTION** (process belt mesh), **CREATIVE**WEAVE (architectural mesh) and **COMPACTFILTRATION** (compact filtration systems). With this broad range of expertise and the virtually unlimited array of potential applications of our solutions, we cover an extraordinarily large range of industry sectors, including the automotive, chemical, electronics, woodworking, foodstuffs, paper, pharmaceutical and textile industries as well as mining, aerospace, medical technology, environmental technology or architecture and design. We consolidate our leading role with continuous, high investments in new technologies. Whether fine filter mesh with pore sizes of five thousandths of a millimetre made of wires as thin as 14 thousandths of a millimetre or robust process and architectural mesh with wire thicknesses of five millimetres, solutions tailored to the customer's processes are our trademark. We achieve this by using the latest simulation technologies and manufacturing procedures right through to cleanroom standards. We work together with renowned research establishments for bringing innovations quickly and efficiently to market. Moreover, we make a reliable contribution to our customers' success through our focus on continuous further development.







Port Authority Bus Terminal, New York. Mesh: MEDIAMESH® (© GKD/D. Joseph), image below: MEDIAMESH® - stainless steel mesh with LEDs (© GKD/T. Holtkötter)



SOLIDWEAVE: WE TURN CONCEPTS INTO TECHNICAL REALITIES.

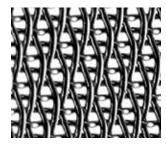
GKD SOLIDWEAVE develops and produces precision mesh and filtration systems on the basis of metals, polymers and other high-performance materials. Innovative technologies, creative ideas and the courage to try out new solutions are behind the success of our filtration media in the field of mechanical 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: The majority of our products are less than five years old.

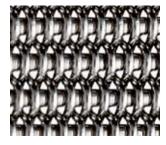


Micro-mesh manufacturing









TELA mesh

PZ-Microdur mesh



Candle filter in process-specific design

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

Our developments are acknowledged across all industries as standards for many industrial applications. Electronics manufacturers use our filters in inkjet printers or as shielding against electromagnetic radiation. The automotive industry uses our meshes for diesel particulate filtration, in exhaust gas aftertreatment 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 for noise insulation of jet engines.

The chemical, pharmaceutical, plastics and foodstuffs industries place their trust in our meshes for demanding filtration tasks. And in the energy and environmental technology sectors, too, they 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

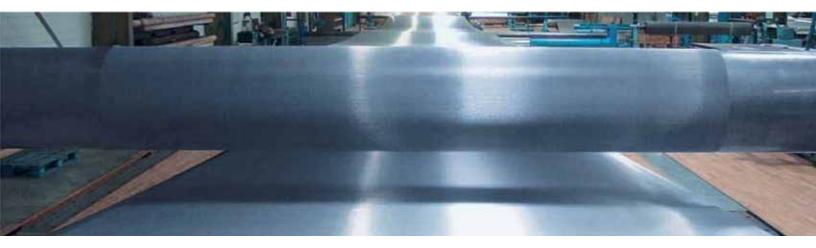
WEAVE **IN MOTION**: WE GET PROCESSES MOVING.

Woven process and conveyor belts from GKD WEAVE IN MOTION are part of a multitude of industrial processes. 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.



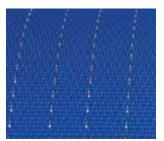
Plastic mesh manufacturing



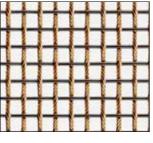




GKD-PAD-seam



CONDUCTO®





Bronze/stainless steel mesh

V-crimp type belt mesh

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 nonwovens, 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 nonwovens. Furthermore, the antistatic 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 nonwovens-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

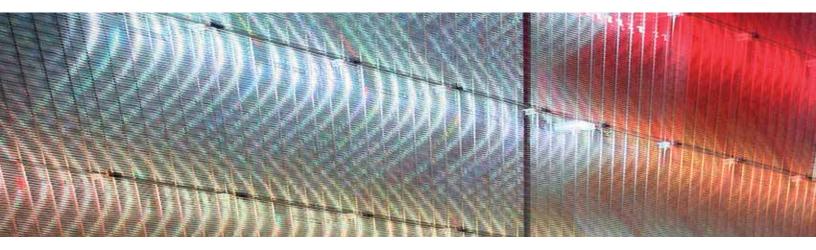
CREATIVEWEAVE: WE GIVE SHAPE TO IDEAS.

GKD **CREATIVE**WEAVE 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. What's more, 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.



Luis Vuitton Shoe Factory, Italy. Architect: Jean-Marc Sandrolini. Mesh: Omega 1510, (© GKD/ Jean Philippe Caulliez)







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 interplay between aesthetics and function, lightness and robustness, transparency and reflection, screening and view, daylight 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
- SUSTAINABLE MATERIALS
- MULTIFUNCTIONAL PROPERTIES
- TAILOR-MADE PRODUCTS
- OUR OWN SYSTEMS
- INTEGRATED SOLUTION EXPERTISE
- TRANSPARENT MEDIA FACADES
- OPTIMISED ECOLOGICAL LIFECYCLE FOR BUILDINGS
- HIGH-QUALITY INTERIOR + EXTERIOR APPLICATIONS
- REFERENCES WORLDWIDE

COMPACTFILTRATION: WE COMBINE COMPETENCES.

GKD **COMPACT**FILTRATION combines our many years of expertise in filter elements with innovative process engineering. With the compact MAXFLOW concept, we have successfully established a new generation of filters for the treatment of coolants and process fluids. The backflushable systems work without filter additives. Three unit types bring about a measurable increase in the efficiency and cost-effectiveness of central processes – in the metalworking industry as well as in many other industrial applications in which the cleanliness of work media and process fluids plays a key role in system performance.



MAXFLOW belt filter







MAXFLOW belt filter

Waste briquettes



MAXFLOW filter head

MAXFLOW filtration systems can be applied flexibly and can even be subsequently integrated into processes already in place at the customers, thus allowing the capacity of existing central systems to be expanded in a cost-effective way while at the same time saving space. We match each installation precisely to the respective treatment process – from design and manufacture right through to implementation.

The compact filtration systems with automated backflushing filter combine filtration and briquetting in a single system. Separation limits into the microfiltration range make them ideal for applications with the toughest demands regarding surface quality and tolerances.

Our belt filter systems with self-cleaning stainless steel continuous belt are economical and user-friendly solutions for many grinding processes.

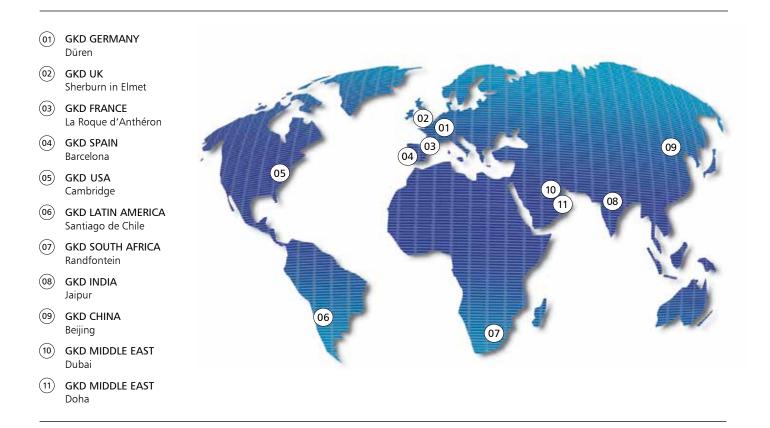
Thanks to filter additive-free filtration, all MAXFLOW systems reduce the workload and cost associated with procurement and disposal while at the same time reducing the dispersal of process media. This makes our system the benchmark in terms of operating costs and environmental friendliness.

COMPACTFILTRATION AT A GLANCE

- COMPACT FILTRATION SYSTEMS
- FILTER AID-FREE FILTRATION
- AUTOMATED BACKFLUSHING
- INDIVIDUAL DESIGN
- EFFICIENT TREATMENT OF COOLANT
- SEPARATING LIMITS RIGHT DOWN INTO THE MICROFILTRATION RANGE
- LOW DISPERSAL OF PROCESS MEDIA
- LOW OPERATING COSTS
- ENVIRONMENTALLY FRIENDLY SOLUTION
- MODULAR SYSTEMS

WORLD WIDE WEAVE: WE HAVE A GLOBAL PRESENCE.

We take the term "market proximity" literally. Our aim is to be the leader in serving 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 isn't a question of location, but rather of functioning international processes and is the driver for long-term partnership. Our eight manufacturing facilities in Europe, the 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.





GKD USA



GKD-USA INC.

825 Chesapeake Drive | Cambridge, MD 21613 | USA T +1 410 221 0542 | F +1 410 221 0544 | sales@gkdusa.com | www.gkdusa.com | www.gkdmetalfabrics.com

GKD USA in Cambridge, Maryland, covers all business areas with a high degree of solutions expertise. The USA has been one of our biggest markets for over 30 years. We consistently use our proximity to the pulse of progress for our own product innovations. Many of our key products for applications in medical technology, foodstuffs processing, aerospace or the chemical industry started life here.

With NEVERLEAK filter leaves, **SOLID**WEAVE sets new standards in breweries or in the industrial production of cooking oil in the USA. Filter media for hot gas filtration or oil production are further key applications for this business unit. Alongside the American woodworking, nonwovens, chemical and foodstuffs industries, WEAVE **IN MOTION** also serves mining with innovative process belt technology. For projects in North America, **CREATIVE**WEAVE offers the entire spectrum of modern services to architects from a single source: full planning with statics and work drawings, weaving – including product types developed in-house – pre-assembly, project management and installation.

GKD SOUTH AFRICA



GKD BUISMET (PTY.) LTD.

Aureus Ext. 3, Cnr. Fiat and Chrysler Streets | RSA-1759 Randfontein | P.O. Box 6175 | RSA-1767 Greenhills | South Africa T +27 (0) 11 412 47 70 | F +27 (0) 11 412 48 23 | gkdrsa@gkd.co.za | www.gkd.co.za

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

In addition to this core competence, GKD SOUTH AFRICA offers more services from our wide range of solutions on premises covering an area of 14,000 square metres. In the **SOLID**WEAVE business unit we manufacture many mesh types in South Africa and provide holistic service for the local filtration market. WEAVE **IN MOTION** supplies the woodworking,

paper, sewage sludge and chemical industries with highquality process belt solutions and services. And that's not all – architectural and design mesh, too, are increasingly in demand at GKD SOUTH AFRICA. **CREATIVE**WEAVE supports architects and planners with comprehensive services, preassembly, fastening technology and installation.



GKD CHINA



GKD (BEIJING) IND. TECHNOLOGIES CO., LTD. No. 11, Jinma Industrial Zone | Middle Road, Shunyi District | 101318 Beijing | P.R. China T +86 10 516 596 18 | F +86 10 694 976 01 | gkd@gkd-china.com | www.gkd-china.com

GKD CHINA has the rarely-awarded status as an officially recognised high-tech company. We established ourselves in China at an early stage, in order to tap into the potential of this important growth market. In 2004 we expanded our sales office into a manufacturing site. In order to meet the high level of demand for our product solutions, we moved to significantly larger production premises in 2012.

In China, **SOLID**WEAVE is a popular partner for sophisticated filter media and systems in the automotive, plastics, polymer and foodstuffs industries, environmental technology and aerospace. WEAVE **IN MOTION** underlines its leading role in the world's largest fruit juice manufacturing market with the local production of process belts for the Chinese fruit juice industry. With the manufacture of selected meshes and holistic service from maintenance and repair work, right through to refinement, we offer local customers a reliable basis: market proximity and access to our state-of-theart German technology.

GKD UK



GKD (UK) LTD.

Unit 14, By-Pass-Park Estate | Sherburn in Elmet | North Yorkshire, LS25 6EP | Great Britain T +44 (0) 1977 686 410 | F +44 (0) 1977 686 411 | sales@gkd.uk.com | www.gkd.uk.com

GKD UK takes the creative potential of the London metropolis and maintains our contacts to leading architects. We thereby skilfully identify the trends of modern architecture and take on the associated challenges. Our British subsidiary serves numerous ambitious architectural projects along the entire value-added chain: consulting, workshop drawings, installation and logistics.

GKD UK supports us in our aim of using innovative aesthetics and intelligent functionalities to define the future of construction today with our woven systems. In this way, **CREATIVE**WEAVE regularly convinces architects, planners and investors with solutions that offer ever more efficiency, convenience and stable value. Our two other business units supply selected industries in Great Britain: **SOLID**WEAVE sets benchmarks with special applications for filtration and electronics as well as products for the aerospace industry, while WEAVE **IN MOTION** delivers special belts for sludge treatment.



GKD SPAIN



FINSA ARQUITECTURA, S.L. Joan Monpeó 144 | 08223 Barcelona | Spain T +34 93 786 1861 | F +34 93 785 8359 | finsa@finsa-arquitectura.com | www.finsa-arquitectura.com

Our Spanish subsidiary FINSA ARQUITECTURA with its headquarters in Barcelona is our service centre at one of the most important architectural locations in the world. Many internationally renowned Spanish architects place their trust in the scope of solutions expertise and experience of our Spanish experts. Several of the most symbolic construction projects using metallic mesh were developed and implemented by FINSA ARQUITECTURA.

Whether the Caja Mágica or the Estadio Santiago Bernabéu, the Pasarela del Arganzuela or the Aeropuerto Barajas in Madrid: our metallic mesh is really making a mark on Spain's contemporary architecture. Versatile aesthetics, customised mesh constructions and individual formats make it ideal for the realisation of audacious design concepts. The robustness, low maintenance and reflective characteristics of the mesh guarantee the planner the necessary economical sustainability. And alongside the famous stadia and airport buildings, numerous construction projects all over Spain bear witness to our expertise.

GKD FRANCE



GKD FRANCE SAS

Zac du Grand Pont, Rue Gutenberg | 13640 La Roque d'Anthéron | France T +33 (0) 442 50 70 29 | F +33 (0) 442 50 71 40 | teamfrance@gkd.fr | www.gkd.fr

As a manufacturing subsidiary, GKD FRANCE bundles our activities in the south of France. Here we produce complete solutions in the field of sun protection and shutter systems based on our corrosion-proof Licorne spiral mesh made of aluminium. With this new mesh, all conventional movable sun protection systems and rolling shutters can be realised in line with the stipulations of the RT 2012 French energy-saving ordinance.

For the **SOLID**WEAVE and WEAVE **IN MOTION** business units, GKD FRANCE continues to drive forward the sales success enjoyed over 25 years with selected solutions. **CREATIVE**WEAVE supplies all components and holistically and intelligently conceived concepts for individual or system-based construction with metallic mesh. Alongside sun protection systems and rolling shutters, these also include sustainable answers to the increasingly tough requirements when it comes to energy-efficient system design. Our specialists in planning, pre-assembly, installation and maintenance are a competent partner for architects, specialist engineers and clients in all project phases.



GKD INDIA



GKD INDIA LTD.

52, Industrial Area Jhotwara | Jaipur – 302012 | Rajasthan | India T +91 141 710 51 00 | F +91 141 710 51 99 | query@gkd-india.com | www.gkd-india.com

Since 2012, GKD INDIA has served our four business areas in the region with its own manufacturing plants in Jaipur. For almost ten years before that, we have been active in the Indian market with our sales unit. With the expansion of our state-of-the-art production facilities, we have followed our customers from key industries into new markets where they now enjoy the same degree of support as in Europe.

SOLIDWEAVE is a sought-after partner here for rescreenable NEVERLEAK plate filtration elements for cooking oil filtration. Soot particulate filtration in the automotive sector and sophisticated solid-liquid separation processes in the chemical industry are further points of focus at the new location.

WEAVE **IN MOTION** supplies filter belts for vacuum belt filters, dryer belts and press meshes for a multitude of market requirements. **CREATIVE**WEAVE serves the local architecture market with a selected range of products geared towards the specific requirements of Indian customers.

GKD LATIN AMERICA



GKD LatAm S.A. La Estera 418 | Lampa | Santiago | Chile T +56 2 2489 1040 | F +56 2 2489 1031 | info@gkd-latam.com | www.gkd-latam.com

GKD LATIN AMERICA is a manufacturing subsidiary that focuses on the targeted expansion of our market presence across Latin America. After over 25 years of active sales activity in Chile, we opened a state-of-the-art production site for our four business units in Santiago de Chile. This enables us to offer our loyal customers from the fields of architecture and process belt technology new prospects for cooperation.

We see great potential for **SOLID**WEAVE in the local cooking oil production sector as well as in the chemical industry. The leading role the WEAVE **IN MOTION** business unit currently enjoys in Chile can be further strengthened by producing locally. The main fields of application for our process belts here are sludge dewatering, woodworking, fruit juice manufacture, the copper industry and mining. With the development and production of both new and established mesh types, **CREATIVE**WEAVE takes advantage of the numerous opportunities such as stadium construction. The relocation of our spiral mesh production from Spain to Chile provides great impetus here.



GKD MIDDLE EAST



GKD MIDDLE EAST

Office 1308 Fortune Tower | Jumeirah Lakes Towers | P.O. Box 112410 | Dubai | United Arab Emirates T +971 4 375 70 70 | F +971 4 427 04 20 | dubai@gkd.de

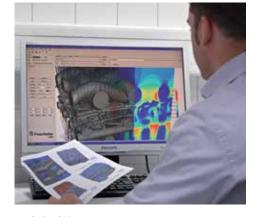
GKD MIDDLE EAST is our response to the ambition and dynamism of architecture in this region. CREATIVEWEAVE is a byword for eye-catching projects with metallic mesh in the Arab world. We continue to build on the leading role of our architectural and design mesh with our subsidiaries in Dubai and Qatar. Our Arab architects are the competent interface to local building clients.

When architecture becomes a landmark of an economy and culture, our metallic meshes contribute to the success of spectacular design concepts: the Nad Al Sheba camel race track, the Capital Gate Tower in Abu Dhabi, the New Doha International Airport, the student accommodation at Education City and the Museum of Islamic Art in Doha all provide a vivid illustration of what is possible. Whether as protection from the desert climate, a decorate shell, representative room dividers or gigantic information displays: **CREATIVE**WEAVE opens a multitude of options. With our network built up over many years we offer planners sound advice and holistic support.

WE DESIGN THE FUTURE.







MEDIAMESH®

Stretching benches

Mesh simulation

We set ourselves the highest standards: we always want to be – or quickly become – the best. We systematically work towards this goal with forward-looking management methods and technology-driven innovations. Our weaving expertise and high standards in manufacturing and processing set trends for maximum customer benefit. The company's research and development centre is based at our headquarters in the German town of Düren. With flexible, internationally oriented and end-to-end certified processes, we guarantee reproducible solutions all over the world with that unmistakable "made in Germany" quality.

We live out this extraordinary mixture of inspiration and competence in all of our business units across the globe: in sales and planning, production and logistics, assembly and service. The perfect interaction of all facets of our service range provides decisive added value which we constantly optimise to our customers' requirements. We understand that progress can only take place when we work together. We enjoy a leading role in markets all over the world because we offer individuality as standard, speed as a principle and networking as a strategy. Innovation combined with a high degree of market proximity is our path into the future.



































People at GKD



GKD – GEBR. KUFFERATH AG

Metallweberstraße 46 52353 Düren Germany T +49 (0) 2421 803 - 0 F +49 (0) 2421 803 - 227 info@gkd.de www.gkd.de

GKD-USA, INC. 825 Chesapeake Drive Cambridge, MD 21613 USA T +1 410 221 0542 F +1 410 221 0544 sales@gkdusa.com www.gkdusa.com

GKD (UK) LTD. Unit 14, By-Pass-Park Estate Sherburn in Elmet North Yorkshire, LS25 6EP Great Britain T +44 (0) 1977 686 410 F +44 (0) 1977 686 411 sales@gkd.uk.com www.gkd.uk.com

GKD (BEIJING) IND. TECHNOLOGIES CO., LTD.

No. 11, Jinma Industrial Zone Middle Road, Shunyi District 101318 Beijing P.R. China T +86 10 516 596 18 F +86 10 694 976 01 gkd@gkd-china.com www.gkd-china.com

GKD FRANCE SAS

Zac du Grand Pont, Rue Gutenberg 13640 La Roque d'Anthéron France T +33 (0) 442 50 70 29 F +33 (0) 442 50 71 40 teamfrance@gkd.fr www.gkd.fr

FINSA ARQUITECTURA, S.L.

Joan Monpeó 144 08223 Barcelona Spain T +34 93 786 1861 F +34 93 785 8359 finsa@finsa-arquitectura.com www.finsa-arquitectura.com

GKD BUISMET (PTY) LTD.

Aureus Ext. 3, Cnr. Fiat and Chrysler Streets RSA-1759 Randfontein South Africa P.O. Box 6175 RSA-1767 Greenhills South Africa T +27 (0) 11 412 47 70 F +27 (0) 11 412 48 23 gkdrsa@gkd.co.za www.gkd.co.za

GKD MIDDLE EAST

Office 1308 Fortune Tower Jumeirah Lakes Towers P.O. Box 112410 Dubai United Arab Emirates T +971 4 375 70 70 F +971 4 427 04 20 dubai@gkd.de

GKD INDIA LTD.

52, Industrial Area Jhotwara Jaipur - 302012, Rajasthan India T +91 141 710 51 00 F +91 141 710 51 99 query@gkd-india.com www.gkd-india.com

GKD LatAm S.A.

La Estera 418 Lampa, Santiago Chile T +56 2 2489 1040 F +56 2 2489 1031 info@gkd-latam.com www.gkd-latam.com