



SPARES

EFFICIENT SCREENING
SOLUTIONS.



Competence

Project solutions from the technological leader

GKD: Made-to-measure innovations

GKD is a specialised supplier of Solid/Liquid Separation Equipment. We have built an extensive, successful reputation as a leading supplier to the mining, metallurgical, sewage, wastewater, paper and pulp, food and chemical industries on a global basis.

Our parent company, GKD-Germany, is a leading supplier of woven materials globally, with an annual turnover in excess of €150 million and a staff complement of 1000. The GKD team has been involved with the design, manufacture, supply, installation and commissioning of solid liquid separation equipment on each continent.

The GKD product range has been developed in-house, utilising extensive research and development coupled with unmatched experience of in-field application of our products.

GKD Offer the following equipment developed to suit application specific needs:

- ◆ Linear Screens
- ◆ Vacuum Belt Filters
- ◆ Filter Presses
- ◆ Thickeners
- ◆ Clarifiers
- ◆ Vibrating Screens

GKD also offer a full range of spares and consumables for all of the above solid/liquid separation equipment.



Linear Screens

From our extensive range of Linear Screen Cloths, GKD Africa is able to supply Linear Screen Cloths with apertures ranging from 400 micron – 2000 micron. Other non-standard apertures available on special request.

Composition

Polyester yarn is typically used for the manufacture of Linear Screen Cloths, due to the tensile strength and abrasion resistance of this yarn type. Other materials of construction are available depending on the particular application.

Clipper Seam

Linear Screen Cloths are joined by means of a Stainless Steel Clipper Seam and Locking Wire for easy and rapid installation.

Edges

GKD Linear Screen Cloths are supplied with heat-cut and sealed edges. This process secures the edges and prevents them from fraying and unravelling, thereby ensuring extra Belt durability. For problem processes, edges can be coated with synthetic resin for additional protection.

GKD Repair Service

Should a Screen Cloth be damaged despite its stable quality, GKD offers a unique cost-effective repair service. Upon receiving a damaged cloth, our factory experts will examine the damage and prepare a detailed report. When repair is possible,

a detailed estimate will be presented for consideration by the end user.

Rollers

- ◆ Straight Rubberlined Rollers with either Internal or External Bearings.
- ◆ Rollers can be supplied with shaft diameters of 25, 30 or 45 mm or to suit.

Pulleys

- ◆ Head Pulley
- ◆ Tail Pulley

Electrical Spares

- ◆ Limit Switches
- ◆ Trip Cord
- ◆ Trip Switches

Cloth Washing

- ◆ Self-Cleaning Spraybars
- ◆ Spray Nozzles
- ◆ Standard Spraybars
- ◆ Splash Skirts

Tracking

- ◆ Full Tracking Unit
- ◆ Sliders
- ◆ Tracking Unit Cover
- ◆ Filter Regulator
- ◆ Tracking Valve & Paddle
- ◆ Bellows
- ◆ Moisture Trap and Oiler

Mechanical Spares

- ◆ Gearboxes
- ◆ Bearings
- ◆ Distribution Screens
- ◆ Bearing Covers
- ◆ Rubber Skirting



Filter Presses

GKD is able to offer Filter Cloths with optimum performance for any application from our extensive range of fabrics.

Composition

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

For harsh applications, more sophisticated compositions such as PVC, Teflon, PVDF amongst others, can be offered.

A variety of Spare Parts for Filter Presses are offered, such as:

Polypropylene Filter Plates

- ◆ Recessed Chamber
- ◆ Plate and Frame
- ◆ Fixed Membrane Plates
- ◆ Replaceable Membrane Plates

Filter Plate Accessories

- ◆ Replacement Membranes typically in EPDM
- ◆ Liner Pipes for Feed & Corner Ports
- ◆ Centre Feed Spreader Rings
- ◆ Filter Plate Handles Including Positioning Clips
- ◆ Filtrate Spigots
- ◆ Spatulas to Facilitate Cake Removal
- ◆ Top Dogs for Suspension of the Filter Cloth

Mechanical Spares

- ◆ Hydraulic Closing Cylinders
- ◆ Hydraulic Power Packs
- ◆ Oil Filters
- ◆ Plate Shifting Bogies
- ◆ Plate Shifting Chain
- ◆ Overhead Hanger Brackets
- ◆ Hydraulic Ram Spacer

Thickeners

GKD can offer proven technology in all major industries. More than twenty years of designing, installing and testing thickeners in diverse applications have achieved a comprehensive reference list spanning both the local and international markets.

GKD offers:

- ◆ Steel tank installations with diameters ranging from 1 m to 60 m
- ◆ Concrete tank installations
- ◆ Retrofitting of new mechanisms into existing tanks
- ◆ Drive head designs from 2 kNm to 3000 kNm

- ◆ High-rate, Conventional, Paste and Underground thickeners
- ◆ Turnkey or supply ex works options
- ◆ Proven sedimentation technology on both High-rate and Conventional thickeners
- ◆ Latest engineering design methods including Finite Element Analysis (FEA) as well as hydrodynamic and structural behavior under earthquake loading
- ◆ In-house design, local support and extensive process information database assisted by Computational Flow Dynamics (CFD) Analysis
- ◆ In excess of 250 installations worldwide, including earthquake zone areas



Vacuum Belt Filter

Our product range of Filter Cloths for Horizontal Belt Filters is primarily focussed upon Monofilament Fabrics which are technically superior to other offerings, due to their excellent cake release, high throughput, low cake moistures, resistance to blinding and ease of cleaning.

Double Layer Weaves

Typically GKD offers Double Layer Weave Fabrics for a wide variety of applications, these fabrics are capable of capturing particles ranging from 12 microns – 120 microns.

Heavy Monofilaments

For harsh applications GKD offers Heavy Monofilament Fabrics which are abrasion resistant and have greater tensile strengths. Heavy Monofilament Fabrics are also used where larger particle sizes must be captured.

Clipper Seams

For ease of installation, Horizontal Belt Filter Cloths are joined by means of a stainless steel clipper seam and locking wire or patented welded PAD seam. To prevent solid losses, as well as vacuum losses through this clipper seam, a covering flap is stitched to the Filter Cloth covering the seam during operation.

Edges

GKD Horizontal Belt Filter Cloths are supplied with heat-cut and sealed edges. This process secures the edges and prevents them from fraying and unravelling, thereby ensuring extra belt durability. For problem processes, edges can be coated with synthetic resin for additional protection.

GKD Repair Service

Should a Filter Cloth be damaged despite its stable quality, GKD offers a unique cost-effective repair service. Upon receiving a damaged cloth, our factory experts will examine the damage and

prepare a detailed report. When repair is possible, a detailed estimate will be presented for consideration by the end user.

Rollers

- ◆ Bowed Rollers
- ◆ Belt Side Guide Rollers
- ◆ Wear Belt Return Rollers
- ◆ Static Cloth Take Up Rollers
- ◆ Dynamic Tensioning Roller
- ◆ Feed Dam Rollers
- ◆ Belt Return Rollers
- ◆ Cloth Return Rollers

Pulleys

- ◆ Head Pulley
- ◆ Tail Pulley

Tracking

- ◆ Full Tracking Unit
- ◆ Tracking Unit Cover
- ◆ Tracking Valve & Paddle
- ◆ Moisture Trap and Oiler
- ◆ Slides
- ◆ Filter Regulator
- ◆ Bellows

Cloth Washing

- ◆ Self-Cleaning Spraybars
- ◆ Standard Spraybars
- ◆ Spray Nozzles
- ◆ Splash Skirts

Mechanical Spares

- ◆ Trapezoidal Rubber Carrier Belt
- ◆ Variable Speed Drive Gearboxes
- ◆ V-Notch Wash Water Feeder
- ◆ Vacuum Pumps
- ◆ Vacuum Ancillaries
- ◆ Straight Wall Curbing
- ◆ Ripple Curbing
- ◆ Fish Tail Feeder
- ◆ Air Boxes
- ◆ Vacuum Boxes
- ◆ Seal Strips
- ◆ Wear Slides
- ◆ Wear Belts
- ◆ Dam Flaps
- ◆ Bearings
- ◆ Bearing Covers
- ◆ Heli-Flex Hose
- ◆ Heavy Duty Clamps

Electrical Spares

- ◆ Limit Switches
- ◆ Trip Switches
- ◆ Trip Cord

Service

GKD worldwide:
**Close to the
customer**



- 01 **GKD Germany** Düren
- 02 **GKD USA** Cambridge (MD)
- 03 **GKD USA** Star City (AR)
- 04 **GKD Chile** Santiago de Chile
- 05 **GKD South Africa** Johannesburg
- 06 **GKD China** Qufu

Technical weavers for industry

Technical woven solutions and processing equipment for a better world:

Our vision and commitment as market and technology leader. Can we make the planet healthier, cleaner, and safer? Our answer is a resounding yes! With technical mesh and fabric solutions for industry and architecture, whose benefits and range of potential uses are gaining ground in more and more sectors and applications.

At GKD, we have been a driving force behind this development for almost 100 years. We accompany and support our customers as an innovative partner and global technology leader. We are consultants – engaging, reliable, and nearby.

Our response times are short, our product standards are high, our aspirations are constantly growing. Since we offer perfectly tailored solutions for our customers and markets, we are also THE problem solving experts in our sectors.

As a fourth generation family-run business, we have always adopted a far-sighted approach. We feel certain that we can and must assume responsibility in everything that we do: for us, for our customers, and for the world.

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