

**DELKOR**



# **DELKOR BELT LINEAR SCREENS (BLS)**

*Innovation out of tradition – It pays to talk to a specialist!*

**TAKRAF Group**, through its established and well-known brands, TAKRAF and DELKOR, provides innovative technological solutions to the mining and associated industries. We leverage our experience, acquired over more than a century, to provide equipment, systems and services that best satisfy our clients' mining, comminution, material handling, liquid/solid separation and beneficiation requirements. Owners and operators around the world trust our engineered solutions to lower the total cost of ownership and reduce environmental impact by improving efficiency with safe and reliable equipment. For sustainable solutions backed by expert service you can rely on TAKRAF Group. Visit us at [www.takraf.com](http://www.takraf.com).

**We at TAKRAF Group are committed to environmental and social sustainability in all our business interactions and have adopted a Zero Harm approach under our global safety promise.**

Owners and operators around the world are confident that TAKRAF Group provides the most suitable solution to their unique project requirements. We assist our clients in overcoming the most complicated challenges in transforming the resource industry towards a sustainable future. We focus on specific areas that are critical for reliable and sustainable operations, as it is here where we best support our clients with innovative solutions that save energy, lower environmental impact and meet or exceed operational requirements.

One focus area is liquid/solid separation, where we capitalize on our global DELKOR brand and its track record of thousands of successful installations. In line with our commitment to environmental sustainability, DELKOR dewatering and process equipment are specifically designed for the needs of the mining industry.

We leverage our global organization and aggregate our extensive expertise by offering a unique combination of both application experience and product based knowledge. Clients therefore benefit from direct technical discussions with our local specialists, who are able to draw upon this expertise and provide the most suitable local solution and service that enhances safety, improves sustainability, decreases costs and increases efficiency.

Our commitment is summarized by:

Safety | Reliability | Innovation | Sustainability

## **DELKOR - YOUR SPECIALIST IN SOLID | LIQUID SEPARATION AND MINERALS PROCESSING**



DELKOR is an industry specialist in solid / liquid separation and mineral processing applications for the mineral, chemical and industrial markets, offering flotation, sedimentation, filtration, screening, and gravity separation systems. DELKOR's services range from test work, process optimization and flowsheet design, to installation, commissioning and aftermarket support.

DELKOR's track record in solid/liquid separation and mineral processing applications stretches back to the seventies with more than 3,000 successful installations worldwide.

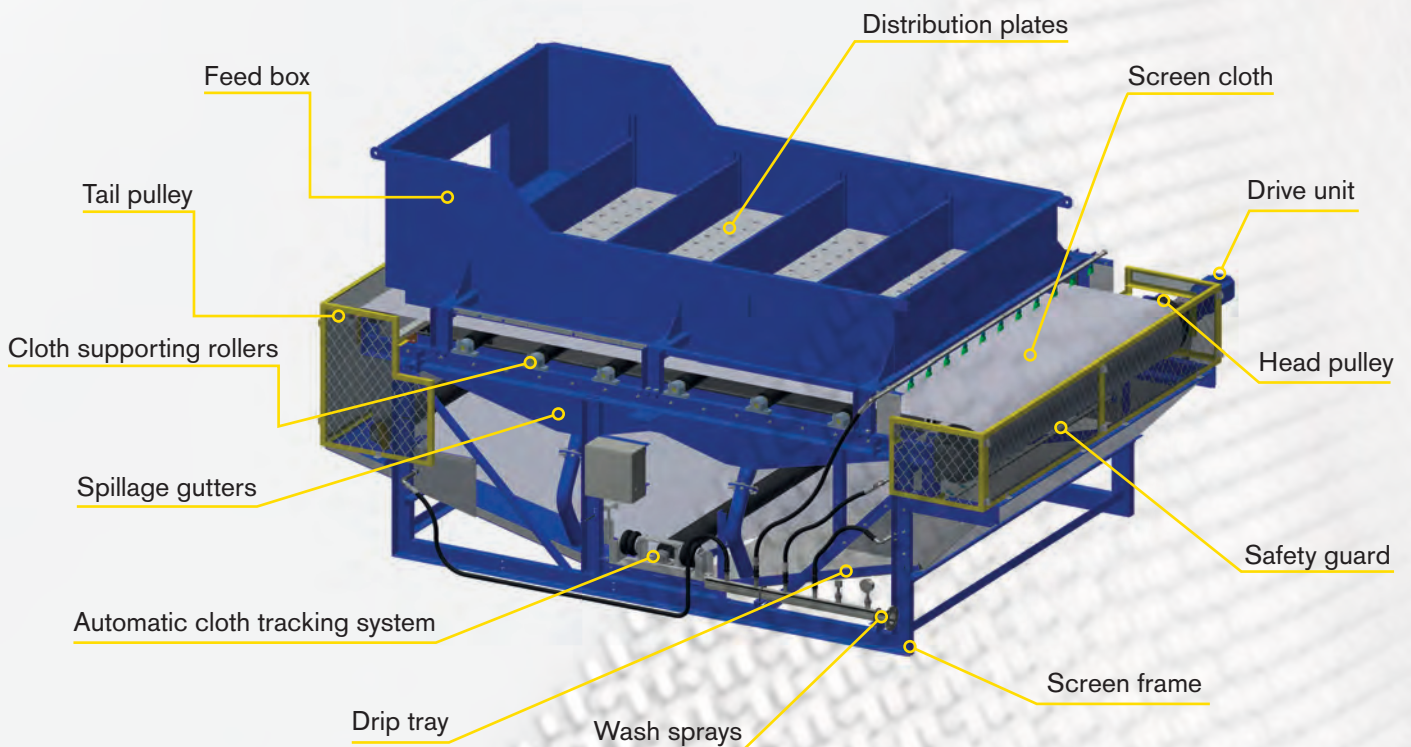
# DELKOR BELT LINEAR SCREENS (BLS)

The **DELKOR** belt linear screen was developed through extensive test work in order to resolve a major problem within Carbon-in-Pulp (CIP) and Carbon-in-Leach (CIL) processes in the gold industry – that is, the effective removal of trash material from slurries.

Our screens are capable of screening between 300 and 4,000 microns. They efficiently separate a relatively small amount of a well-defined size fraction from ground slurries that are coarser than the particles required for downstream processing. This ultimately safeguards and reduces any downtime of downstream equipment and improves overall plant performance.

We have supplied hundreds of belt linear screens for various applications around the globe and our screens are widely employed by the industry for the removal of tramp material from fine mineral or chemical slurries.

## GENERAL LAYOUT OF A DELKOR BELT LINEAR SCREEN



## PORTFOLIO SUMMARY

As the original developer of this equipment, we offer a wide range of sizes, including the largest belt linear screen available in the market today.

## DELKOR BELT LINEAR SCREEN SIZE OFFERING

0.5 m <sup>2</sup>	3.0 m <sup>2</sup>	12.0 m <sup>2</sup>	32.0 m <sup>2</sup>
1.0 m <sup>2</sup>	6.0 m <sup>2</sup>	20.0 m <sup>2</sup>	40.0 m <sup>2</sup>
1.5 m <sup>2</sup>	9.0 m <sup>2</sup>	25.0 m <sup>2</sup>	

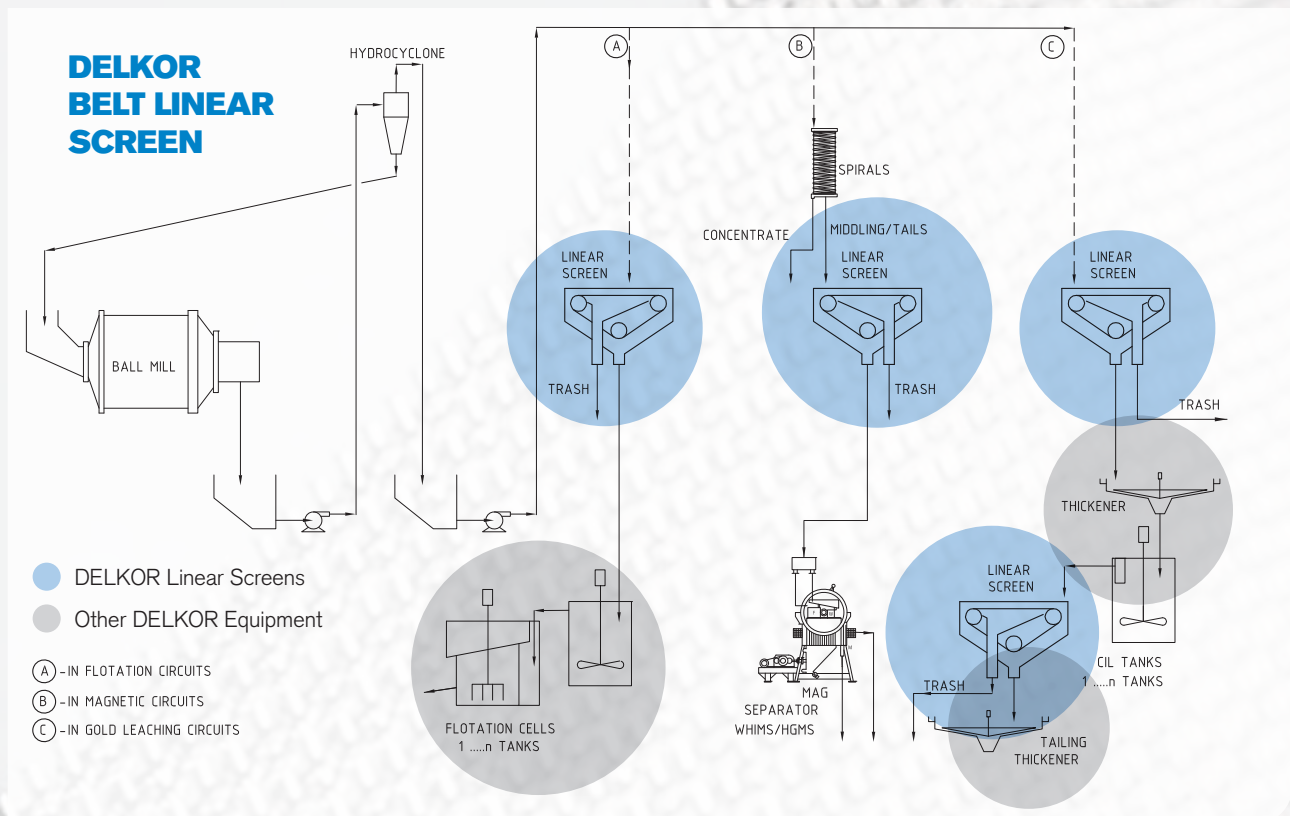
# APPLICATIONS

## WHERE CAN YOU BENEFIT BY USING A DELKOR BELT LINEAR SCREEN IN YOUR PLANT?

Our belt linear screens can be employed in all minerals processing flowsheets, from ore to effluent! The vast majority of our screens are however used within the processing of gold, iron ore and base metals.

<b>TRASH REMOVAL</b>	➤ Gold plants	Fiber, scalps oversize, loaded carbon, carbon safety screen
	➤ Flotation plants	Removes trash protect froth overflow points and filtration
	➤ Autoclave	Scalps feed to prevent "in vessel sanding"
	➤ Wet High Intensity Magnetic Separation (WHIMS)	Scalps coarse material which causes matrix choking and drum damage
	➤ Sand plants	Scalps shell and fiber
	➤ Mine drainage	Removal of oversize
	➤ Water	Ash in power stations, fiber in pulp & paper plants, and scalps from abattoirs
<b>OVERSIZE REMOVAL</b>	➤ Coarse material in heavy minerals	
	➤ Fine screening of mill discharge	
	➤ Fine screening of spiral feed	
<b>EFFLUENT</b>	➤ Removal of coarse/trash material at inlet of ETP / STP	
	➤ Scavenging of step screen sludge product	

## AN EXAMPLE OF WHERE DELKOR BELT LINEAR SCREENS CAN BE USED ACROSS VARIOUS APPLICATIONS OR CIRCUITS.



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# ADVANTAGES

## WHY USE A DELKOR BELT LINEAR SCREEN INSTEAD OF A VIBRATING SCREEN?

Belt linear screens have replaced vibrating screens in many plants as they offer the following advantages:

- Screening efficiencies as high as 98 %
- No vibration
- Low cost of supporting civil works and structural steel
- Low maintenance costs
- Low power consumption
- Low noise levels
- High availability - in excess of 97 % reported
- Cloth replacement is easier and quicker
- Self-alignment of cloth
- Simple operation
- Wide range of cloth apertures - from 300 um to 4000 um
- Cloth made of wear resistant polyester
- No high cost of moving parts
- No scaling of cloth from chemical precipitation
- Option of Containerization

Since a belt linear screen operates with no vibration, there is no realignment of oversize material with the cloth aperture, which ensures complete retention of all oversize material.

# STANDOUT FEATURES

## WHY YOU SHOULD USE A DELKOR BELT LINEAR SCREEN?

- Option of reverse feed arrangement
- Spillage launders
- Full-length drip trays
- Side curtains / spray reduction panels
- 2-stage cloth sway switches
- Split spray bars with quick fix nozzles
- Feed distribution weirs
- Cloth tensioning weights
- Local control cabinets
- High-pressure spray bars
- Bolted construction designs for ease of transportation
- Bearing lubrication systems
- Experienced service time
- Variable speed drive

Each **DELKOR** belt linear screen can also be fully customized with a set of optional features. Your local **DELKOR** specialist can assist you in proposing certain options based on your specific process requirements.

# LABORATORY AND AFTER SALES SUPPORT

**DELKOR** specialists around the world are able to assist across all areas and provide support regarding the correct sizing of your equipment. We also offer various possibilities for the execution of tests in our laboratories located around the world or directly on site.



## OUR GLOBAL DELKOR PRESENCE

**DELKOR** provides comprehensive client support services around the world. We can also propose customized maintenance solutions, such as spare parts supply, stock management and/or maintenance contracts.



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