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Bevcon innovative screening technology

Bevcon Wayors in technical collaboration with multiple foreign companies has successfully brought innovative flip-flow screening technology to the Indian market



Circular-Elliptical Flip Flow screen

With increasing demand for screening requirement in various industrial applications in terms of dry, wet screening, Bevcon has introduced an innovative screening technology which will solve a variety of problems where conventional screening has limitations in performance, thereby enabling state-of-the-art flip-flow screening technology implementation that wasn't possible before.

Bevcon Wayors in collaboration with multiple foreign companies has successfully brought "Innovative Flip Flow Screening technology with Circular/Elliptical and Linear motion" to the Indian market. This is a part of its range of bulk material handling and processing solutions that Bevcon has been offering since two decades. The company has successfully tied up with Fleximat PPM, Austria (FFS with circular/elliptical motion) for high-efficient, high-capacity screening applications; Rollier, Spain (FFS with linear motion) for medium and small screening applications with high moisture content.

Circular/elliptical motion flip-flow screens

Flip-flow screen is developed and manufactured by Bevcon Wayors, Hyderabad, in technical know-how with Fleximat, Austria. It is a highly efficient vibrating screen suitable for medium and very heavy screening applications and materials.

To gain a competitive edge in today's Indian market, Bevcon brought new innovative screening technology as per the customised application requirements. The Bevcon flip-flow screen is an effective alternative to conventional screening solutions in mineral processing industries with high moisture and inherent blinding characteristics and is ideally suited for efficient screening of moist, sticky, fibrous, wet bulk materials with a high percentage of fines or near size particles.

Bevcon designed this flip-flow screen with patent design features which will enable less wear and tear, reduced maintenance, and increase screening efficiency.

The screen is highly efficient and able to screen fine, medium and coarse materials. It operates with high efficiency on a continuous basis. Opening of screen mats vary between 0.5 mm to 50 mm with screening capacities up to 400 tonnes per hour.

Linear motion flip-flow screens

In technical know-how with Rollier, the linear motion flip-flow screens are developed and manufactured by Bevcon Wayors. These are suitable for medium- and low-screening applications and materials.

The equipment are economically designed with structurally reinforced chassis, flexible polyurethane meshes that are mounted transversally in relation to the longitudinal axis of the screen and operated by unbalance motors and exciters. No nuts or bolts are required to install the meshes. Best suited for low-end moist material applications in Indian minerals industries.

The power and range of the unbalance motors and exciters of



Circular-Elliptical Flip Flow screen

Friedrich make, fitted to the body frame tighten and slacken the meshes, generating a wave (trampoline) movement, which mixes, moves and screens the most difficult materials to classify and clean efficiently.

Efficient screen for high moisture and inherent blinding characteristics are ideally suited for efficient screening of moist, sticky, fibrous and wet bulk materials.

Bevcon designed this flip-flow screen with life lubricated, highly energy-efficient unbalance motors to minimise maintenance, less acceleration force of screen mat reduce wear and improves life with increased screening efficiency.

Suitable for separation of 0.5 mm to 20 mm with screening capacities up to 100 tonnes per hour.

Highlights of Bevcon linear and circular/elliptical flip-flow screen

- Non-blinding screen mats
- Dynamic screen panels - screw less mounted
- Side panels connected with screen panels
- Dust and watertight
- Infinitely adjustable
- Quick release top cover
- Free oscillation screen by using the resonance effect

- Independent of material variations
- Well-proven eccentric drive
- Simple design
- Easy maintenance.

Range of industries suited to this kind of screens

Power sector

- Moist coal, pet coke, limestone, husk, lignite, wood chips, tree bark, biomass, briquettes and municipal solid wastes.

Recycling Industry

- scrap metal products, glass, plastics,

e-scrap

Building and mixed materials

- Aggregate, concrete, asphalt and hard rock

Food processing

- Seeds, compost, peat, organic materials, urea

Cement industry

- Limestone, clinker, laterite

Iron and steel

- Iron ore, coal and fossil fuels, pet coke, slag

Sand and gravel

- Sand and gravel, crushed stone, quarry materials

Innovation

Innovation is a continuing process at Bevcon Wayors. These products are results of continuous innovation of Bevcon in-house R&D. Bevcon strongly believes that innovation is the lifeline for the organisation. To this end, it has formed an exclusive group called TDG. The core focus of the department is the development of new products, validation of products and cost-effective solutions for customer critical applications. The group consists of subject matter specialists from various domains who work collectively to get the ultimate results. Bevco also approached DISR for recognition of as R&D hub and is hopeful that it'll be through by end of this FY 13-14. ■



Linear Motion Flip flow Screen