

The BoCross MicroScreen filter offers unique continuous process solutions with regard to classifying suspensions or to fully recovering or separating solids from suspensions with challenging product or process characteristics.

Like the BoCross Dynamic filter, the BoCross MicroScreen filter works on the principle of dynamic crossflow filtration. However, backwashable asymmetric metal media are used as filter media. This way, innovative separation processes are realized.

The dynamic sieve filtration with the BoCross MicroScreen filter is a method for the classification of suspensions such as the separation of disturbing coarse grain from very particulate suspensions or the separation of interfering fine grain fractions. For the first time, highly viscous and highly concentrated suspensions can be continuously sieved in a closed apparatus with high throughput and with a sharp cut point. The product losses are very low.

Dynamic precoat filtration is a combination of cake forming filtration and crossflow filtration. With this method, solids can be completely recovered from a suspension even under difficult process conditions where membrane filters or centrifuges fail. The filtrate is absolutely particle-free. The dynamic precoat filtration allows, for example, a circulation of catalysts with a very short residence time outside the reactor.

The BoCross MicroScreen filter is available with filter sizes from 0.1 m² to 12 m² and can be used for an operating pressure of up to 6 bar (a) and an operating temperature of up to 100 °C. In special cases, higher pressures and temperatures can be realized.

Applications of the BoCross MicroScreen filter:

- Plastic Intermediates
- Pigments, Fillers and Dyes
- Catalyst Processing

Features and benefits:



- separation of interfering coarse or fine grain fractions by continuous classification of suspensions (dynamic sieve filtration)
- complete recovery of solids from suspensions and particle-free filtrates through dynamic precoat filtration especially where membrane filtration is not recommended
- high solids concentration and high viscosity allowed in the feed
- continuous operation
- hermetic process

