Krebs® gMAX® Hydrocyclones

Krebs® gMAX® Hydrocyclone
Finer particle separation with patented technology.
Krebs® gMAX® hydrocyclones

**gMAX performance**
- Finer, sharper particle separations at high capacities
- Fewer cyclones needed for optimal performance
- Easy maintenance
- Works with existing installations

**gMAX applications**
- Minerals processing
- Oil Sands
- Water Treatment
- Chemicals
- Pulp & Paper
- Automotive
- Oil Refining

**gMAX Cyclone Compared to Other Cyclones**

Optimum cyclone performance relies on minimizing turbulence while maximizing tangential velocity. The gMAX® cyclone focuses on these two important factors, significantly advancing cyclone performance. To achieve these two design criteria, the gMAX incorporates performance-enhancing improvements to the inlet head, cylinder section, cones, and apex.

> FLSmidth Krebs leads the separation technology for mining and industrial applications since 1952.
Innovative hydrocyclone design

**gMAX inlet head**

- Contoured ramped inlet pre-classifies feed and reduces turbulence
- Reduced turbulence minimizes coarse solids bypass to overflow
- Less turbulence reduces wear

**Inlet head design**

The innovative gMAX® inlet has replaced the former Krebs involute feed inlet design improving upon what had been the state-of-the-art design for over 30 years. A commitment to continuous improvement like this is why FLSmidth Krebs is the world leader in cyclones, and why we continue to push the limits of separation technology.

The outer wall involute design entrance pre-classifies the feed solids prior to entering the main body of the cyclone. The inlet head of the gMAX also includes an improved vortex finder and top cover plate liner design.

These improvements result in less misplaced material to the overflow and dramatically increased wear life. This longer wear life combined with premium ceramics in the lower parts of the cyclone, will greatly increase intervals between complete cyclone rebuilds.

**Cone design**

Through the use of CFD analysis, FLSmidth Krebs has designed the gMAX® cyclone with sharper upper cones followed by longer angled lower cones.

This combination maximizes tangential velocity in the upper part of the cyclone. It also provides a long residence time in the critical separation zones in the lower part of the cyclone. This results in a substantially finer separation with fewer fines in the underflow and less coarse bypass to overflow.
World-class Service & Hydrocyclone Test Facilities
FLSmidth Krebs has provided superior classification and separation solutions using hydrocyclone technology since 1952. Our unparalleled technical staff of experienced engineers will quickly and thoroughly evaluate your potential applications and provide detailed recommendations and performance estimates. In the event you have an application that requires testing for validation, our hydrocyclone test lab is equipped and staffed to provide prompt testing at low cost. Arrangements can be also be made to run test cyclones at your site.

For more information on any of our products please contact one of our Regional Sales Offices below.

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