

Krebs gMAX[®] Hydrocyclones



- Max Means More
- With Krebs Separation Systems its Easy to See What You've Been Missing



FLSMIDTH
KREBS

Performance • Productivity • Profitability

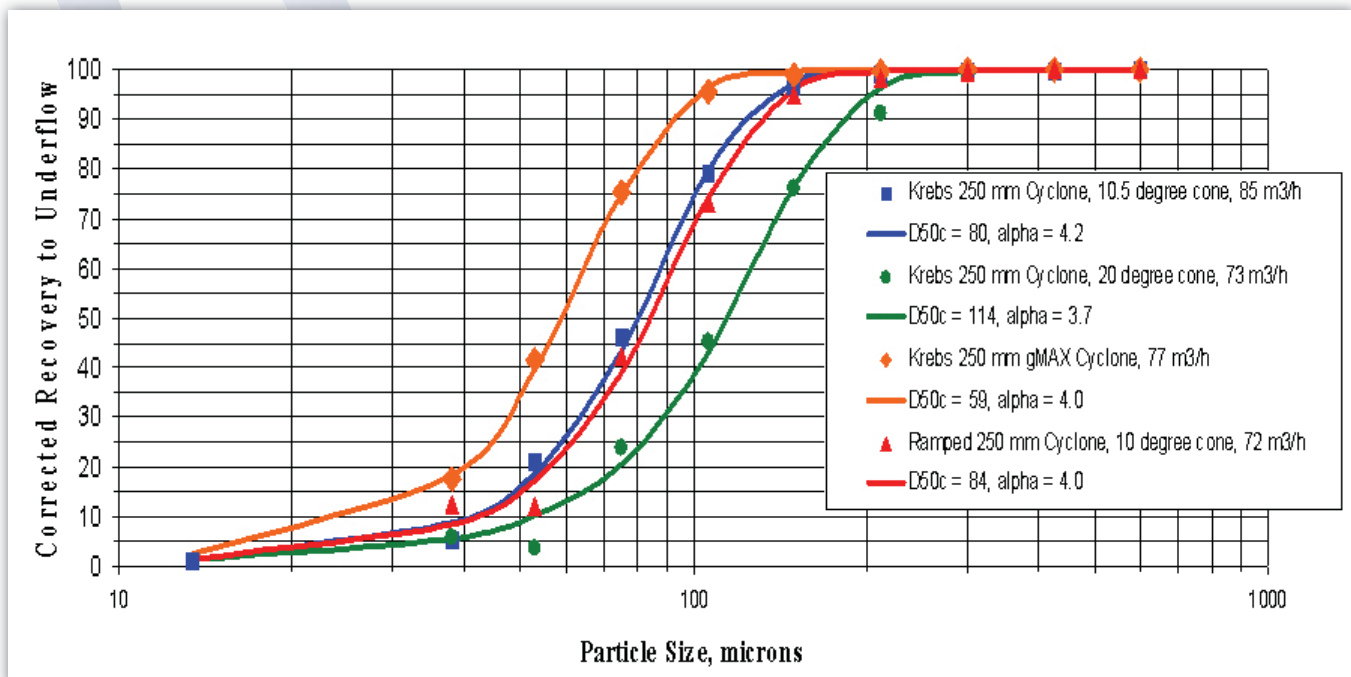
New era, new engineering, and a whole new performance standard for separation technology. The new MAX line from Krebs, leading the industry since 1952.



gMAX® Cyclone

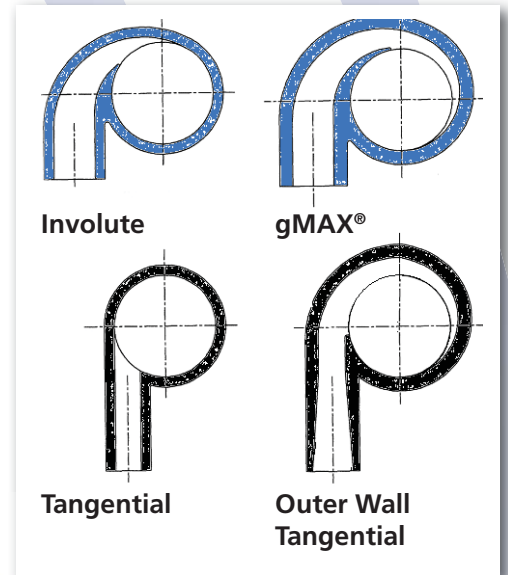
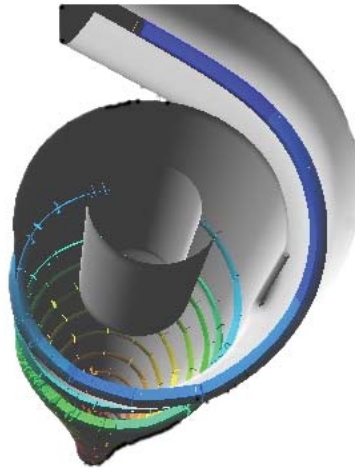
- Finer, sharper particle separations at high capacities
- Fewer cyclones needed for optimal performance
- Easy maintenance
- Works with existing installations

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



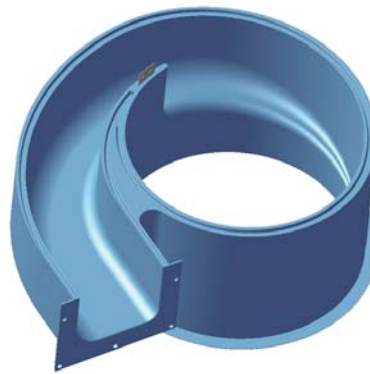
Inlet Head Design

The Krebs gMAX® inlet has improved upon the Krebs involute feed inlet that had been the state-of-the-art in hydrocyclones for over 40 years. The outer wall involute design entrance pre-classifies the feed solids prior to entering the main body of the cyclone. The upper part of the gMAX® also includes an improved vortex finder and top cover plate liner design. These improvements to the inlet head result in less misplacement of coarse material to the overflow and dramatically increased wear life. This longer wear life for the gMAX® inlet, combined with premium ceramics in the lower parts of the cyclone, will greatly increase complete cyclone repair frequency.



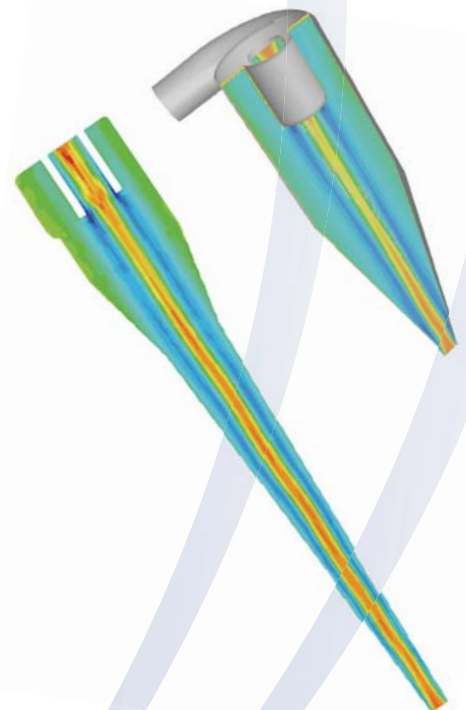
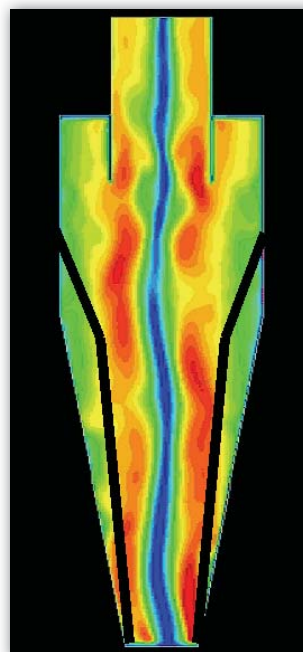
gMAX® Inlet

- **The partition between the slurry entering the cyclone and the separation chamber of the hydrocyclone has been extended.**
- **Extra space for incoming slurry with floor to minimize turbulence.**
- **Classifies the coarse solids before introducing them into the main body of the hydrocyclone.**

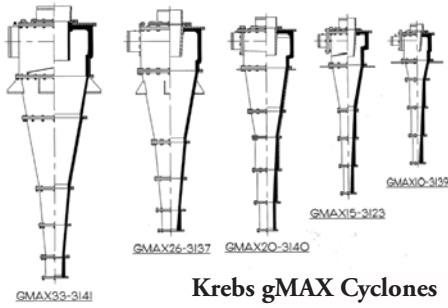


Cones

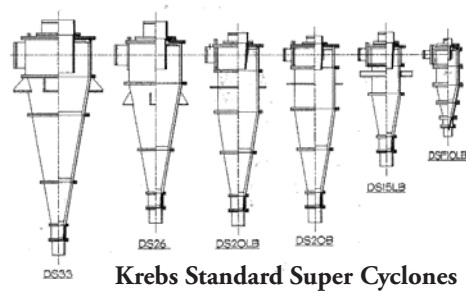
Through the use of CFD analysis, Krebs has designed the gMAX® cyclone with sharper upper cones followed by longer angled lower cones. This combination maximizes tangential velocity in the upper part of the cyclone. It then provides a long residence time in the critical separation zones in the lower part of the cyclone. This results in a substantially finer separation with fewer fines in the underflow.



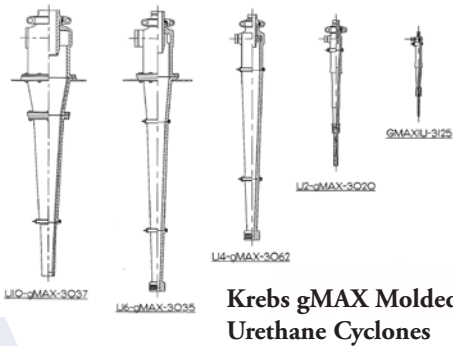
Cyclone Product Line



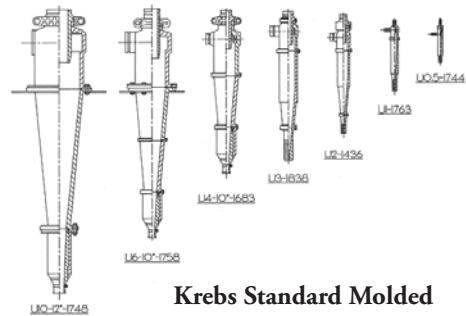
Krebs gMAX Cyclones



Krebs Standard Super Cyclones



Krebs gMAX Molded Urethane Cyclones



Krebs Standard Molded Urethane Cyclones

millMAX™ Pumps

Pump Wear Life Comparison



- Longer wear life
- Lower power draw
- Sustained hydraulic efficiency
- Works with existing power frames



millMAX™ Pumps offers:

- original millMAX™ pumps
- gravelMAX™ Pumps
- slurryMAX™ Pumps
- vMAX™ Pumps

millMAX Power Savings



Add a millMAX™ Pump to your separation process and watch your pumping costs drop. The new millMAX™ utilizes patented design improvements to minimize key costs associated with pumping mill discharge and other abrasive slurries. As the leader in cyclone technology, we make sure your pumping system optimizes your separation requirements.



www.Krebs.com or
www.FLSmidthMinerals.com

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