

FLSmidth Krebs produces different types of Cyclones and DeSanders to meet the customer's specific requirements. Each type of Cyclone or DeSander comes in different sizes with different internal fittings to optimize the performance for every application. Sizes range from 1" diameter up to 30" diameter. Krebs offers units that are unlined, lined with vulcanized gum rubber, or lined with replaceable gum rubber liners depending on the budget constraints and customers preferred life of the unit. All of our units have a cone section which accelerates the rotational velocity of the water thus producing higher centrifugal forces as the diameter gets smaller which results in finer separations and/or more solids removal. Quite often multiple units are part of a manifold system clustered together in parallel. Using smaller diameter units produces a finer separation but more units are required to handle the large flow rates.

Krebs Cyclones and DeSanders are commonly used to remove sand from well water, rivers, lakes or the ocean. Removing the sand prior to filtration and settlers reduces maintenance and chemical usage in downstream equipment.

Standard materials of construction are carbon steel with gum rubber lining, and urethane. If needed, other materials of construction are also available as well as units that are designed and built to ASME code, Section VIII, Division I.

For very fine separations, down to about 5 microns, multiple numbers of small diameter alumina ceramic cyclones are installed in vessels that can be made to any required specification.

Krebs millMAX™ pumps are ideally suited to feed cyclone clusters in the removal of sand from the plant intake water process.





## FEATURES & BENEFITS

- ▶ Low capital cost and no moving parts
- ▶ Removes sand and grit that could damage or plug up downstream equipment
- ▶ Efficient separation with relatively low power consumption
- ▶ Wide range of Krebs Cyclones and DeSanders sizes are available, 1" through 30" diameter.
- ▶ Reduces maintenance and chemical costs.
- ▶ Krebs Cyclones and DeSanders can be designed to any specification and from any alloy to meet the customer requirements.

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

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