Overview

Applications
The K-Rotor screen rotor was designed to maximize efficiency and yield. The fine screen rotor can be retrofitted to any primary or secondary fine screen application. It can also be used on applications where an open-foil rotor is preferred. The upgrade can be completed during a normal maintenance down period and typically consists of a sheave change and a bolt-in rotor retrofit.

Features
- Energy-efficient design using CFD modeling
- High contaminant removal efficiency
- Low-speed, low-pressure screening
- Designed to retrofit existing installations

Benefits
- Improved removal of stickies and debris
- Up to 30% less energy required
- Longer cylinder life
- Improved pulp capacity

High contaminant removal efficiency and yield
Kadant’s screen rotor has been one of the industry’s most popular designs used to remove stickies and debris from recovered fiber. Based on our extensive experience and field tests using AOCC screen rejects, the high-efficiency K-Rotor design utilizes low-speed and low-pressure to maximize sticky removal and minimize stress and wear of screen cylinders.

Even at the lower speed and power, the K-Rotor screen rotor has been shown to significantly improve pulp quality with no reduction in capacity (tons/hr). In short, optimization of the foil shape and frequency along with a detailed analysis of rotor speeds allowed for optimization of the K-Rotor design leading to significantly improved contaminant removal efficiency.

A further benefit of low-speed screening is optimized energy efficiency and reduced wear of the screen cylinder. Although some installations of the K-Rotor screen rotor have resulted in energy savings as high as 50%, typical applications result in a 20% to 30% decrease in energy usage with the side benefits of improved runnability and yield.

For more information on the K-Rotor screen rotor or to learn how you can improve energy utilization with the K-Rotor screen rotor, contact your local Kadant sales representative or visit us online at www.kadant.com.