Customized Solutions Using ProMax Series Refiner Plates

The ProMax series of refiner plates from J&L Fiber Services enables customized solutions through optimized designs for long lasting and more energy efficient fiber development. The series incorporates all of our latest plate technology, including J&L Fiber Services’ patented alternating deep groove design as well as our flagship alloys.

Created with our proprietary PowerCast™ technology, the ProMax Series is uniquely different than competitive offerings because of its customization flexibility. Plate patterns can be customized to increase fiber quality, refining efficiency, capacity and life, while reducing wear and plugging.

The ProMax series demonstrates J&L’s latest design technology made possible through our optimum design features which include:

- ReverseFlare™ Anti-Plugging Grooves
- Low Bar Draft Angles
- Alternating Deep Grooves
- Radial Feed Grooves
- Flagship Alloys: C90, C91, C96 and the new AeroMax MX Series

The ProMax Advantage

- Maximize KM/Rev for lower intensity refining while maintaining hydraulic capacity and plate life
- Maximize hydraulic capacity while maintaining refining intensity and wear resistance
- Maximize plate life with more wear resistant alloy while maintaining capacity and refining intensity
- Maximize groove width for less plugging while maintaining refining intensity and wear resistance
J&L’s Patented Alternating Deep Groove Technology

Our engineered alternating deep groove design optimizes bar height/width ratios and is a significant factor in enabling pattern customization flexibility.

With our alternating deep groove design, we increase bar strength at the base of the bar and maximize the bar height and the volumetric groove area. This gives us the ability to customize patterns for optimum fiber development, high durability, maximum capacity and plate life, in addition to maximize alloy wear resistance.
**ProMax Constant Angle Multi-Zone**

**Advantages:**
- J&L Fiber Services’ patented alternating deep grooves
- Uniform bar crossing angles over entire plate surface
- Fibers refined at constant crossing angle
- Homogeneous fiber treatment and quality
- ReverseFlare™ Anti-Plugging Grooves
- Individual refining zone customization for bar and groove width, as well as bar angle
- Dam patterns are available for pulp mill applications

**ProMax ReverseFlare™**

**Advantages:**
- J&L Fiber Services’ patented alternating deep grooves
- Continuous ReverseFlare™ Anti-Plugging Grooves
- Radial feed grooves – improved feeding into refining zone
- No transitions zones, no pinch points – reduces plugging potential
- Lower pumping angle designs available for longer plate life, lower pressure rise and less fiber channeling in lower flow conditions
- Dam patterns are available for pulp mill applications