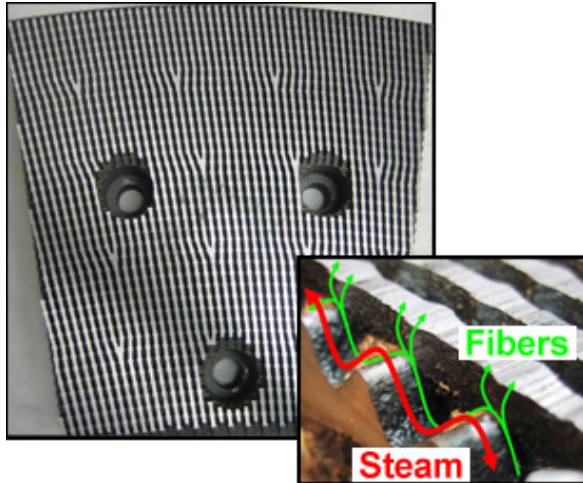




Winter 2007/2008

Let's All Do "The Wave" with J&L's New Venturi Pattern for High Consistency Refining



There's a new game in town and we can't help but raise our hands to spread the excitement. J&L's new damless Venturi pattern is designed with "wavy groove bottoms" and "wavy bars" that significantly improve refining efficiency. Depending on the objectives of your mill, Venturi allows you to improve the quality of your fiber output at a given energy input or lower your energy use while maintaining pulp quality.

As you can see from the picture, the wavy shape of the bottoms and bars allows for effective steam handling while ensuring the fibers stay within the refining zone for more efficient refining.

Another benefit is increased throughput due to reduced hydraulic load which is a direct result of no dams and better steam handling.

Take a look at the results of the following SD-65 Refiner trial. The standard bi-directional plates were replaced and compared with a Venturi uni-directional design.

| CASE STUDY: VENTURI 68YHP168 | | | | | | | |
|------------------------------|-------------------|-----------------|---------------|--------------|---------------|--------------|-----------------|
| Primary Refiner SD-65 | Production admtpd | Total SEC MWh/t | Pri SEC MWh/t | Pri CSF ml | Sec SEC MWh/t | Sec CSF ml | Fiber Length mm |
| VENTURI | 208 | 1.797 | 1.010 | 364 | 0.787 | 144 | 1.76 |
| PLATE A | 191 | 2.000 | 1.114 | 379 | 0.886 | 142 | 1.82 |
| PLATE A | 189 | 2.005 | 1.144 | 390 | 0.861 | 156 | 1.78 |
| DIFFERENCE | 9.7% | -10.3% | -10.5% | -5.4% | -9.9% | -3.2% | -2.2% |

J&L's Venturi design allowed the mill to increase production due to reduced hydraulic load and save 10+% in total line specific energy... all while maintaining pulp quality! For additional information on the Venturi case study or to join "The Wave", contact Tina Lawton, J&L's High Consistency Product Applications Manager, at cglawton@jlfiberservices.com or your local J&L Sales Representative.

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