

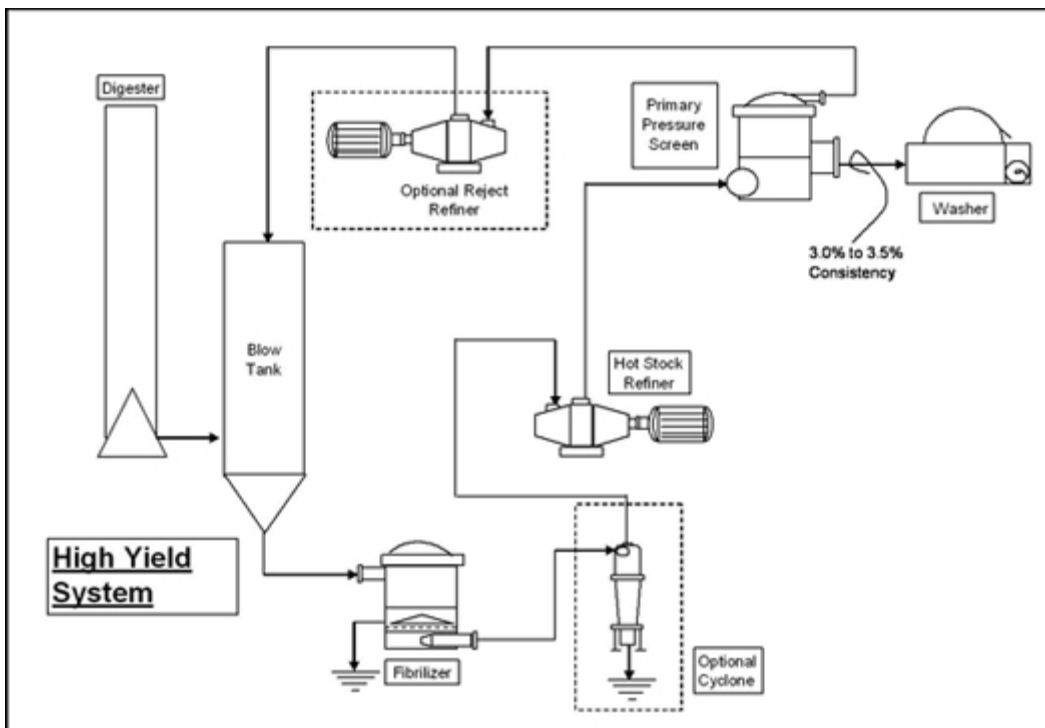


Winter 2007/2008

Conversion to a J&L V-MAX Slotted Cylinder and NoName Rotor Saves Mill \$100,000

Results are in on another successful J&L V-MAX slotted wedgewire cylinder and NoName rotor conversion. The trial compared a 0.018" slotted V-MAX and NoName rotor to the mill's standard conventional 0.062" holed cylinder and rotor. The mill realized \$100,000 of wood savings per year with a potential of saving even more!

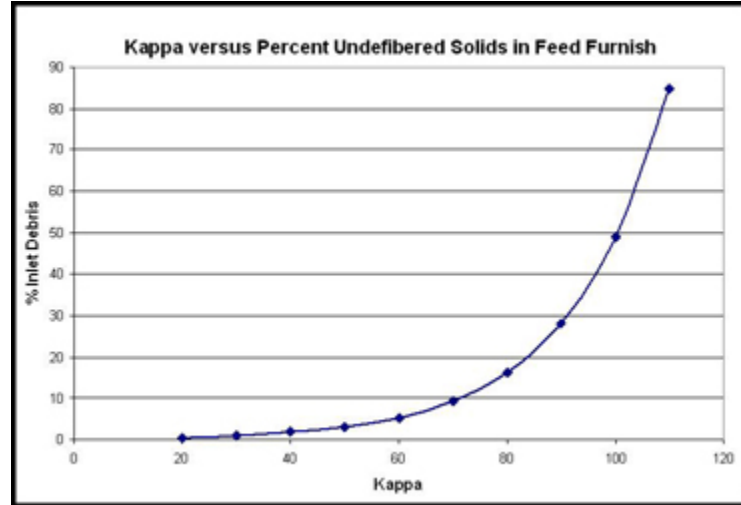
The installation of the slotted V-MAX resulted in an increase in kappa from 82 to 87. This kappa could be increased to 92 while having the same screen accept and shive count. Washing efficiency also increased from 98.7% to 99.6%, a 69% reduction in carry-over from the washers. Power presently is 3.7% higher, but can be reduced rotor speed for 20% savings.



The trial validated the cost of the new cylinder and rotor by showing a kappa increase of 5 points which is equivalent to a \$98,000 saving in wood alone per year. This does not include chemical cost, steam cost, and other associated cost of cooking to lower Kappa.

For even more savings...

For equal wood entering the fine screen, Kappa can be raised from 82 to 92 without increasing accept debris levels. An increased debris removal efficiency of 55.6% from 27.4% equals a higher kappa for the same quality pulp. By raising Kappa from 82 to 92, yield increases approximately from 53.96% to 55.49% for a difference of 1.53%. For 700 tons per day and wood cost of \$45/ODton, the wood savings alone in one year would be approximately \$168,682.



Washing efficiency also increased 30.8% from 98.7% to 99.6%. By retaining the chemical in the black liquor stream, chemical usage is reduced. Reduced "chemical carry-over" means less buffering required at the Paper Machine. The price of chemicals is determined by the mill, but the savings are substantial.

0.062" Holed Cylinder & Standard Rotor	0.018" Slotted V-MAX & NoName Rotor
<ul style="list-style-type: none"> ● 27.4% debris removal efficiency ● 98.7% efficiency on total dissolved solids ● 82 Kappa target ● 188 HP consumed ● 400 T/D Accepts 	<ul style="list-style-type: none"> ● 55.6% debris removal efficiency ● 99.6% efficiency on total dissolved solids ● 87 Kappa target ● 195 HP Consumed ● 400 T/D Accepts

At present, seven extra horsepower is being consumed. This relates to \$2800 per year. When screen RPM is reduced, V-MAX will save about 20% on Screen Horsepower, or a savings of about \$10,800.

If you would like to see cost savings of over \$180,000, contact your local J&L Sales Representative today or call J&L at 262-544-1890 and start experiencing:

- Reduced debris and shives to Paper Machine
- Increased Kappa number of 5-10 points for equal quality pulp
- Reduced HP consumed as RPM is decreased
- Reduced chemical losses and "carry-over"

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