

Success Story

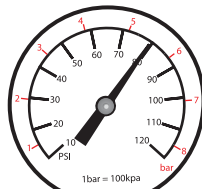
Pulp & Paper • Paper Stock • Packing



Go green, add SpiralTrac™ FIRST device to your packing sealing solution

The Pulp & Paper industry faces a lot of challenges when it comes to pumping Paper Stock. A major issue being the excessive amount of flush water needed to keep the packing cool and lubricated.

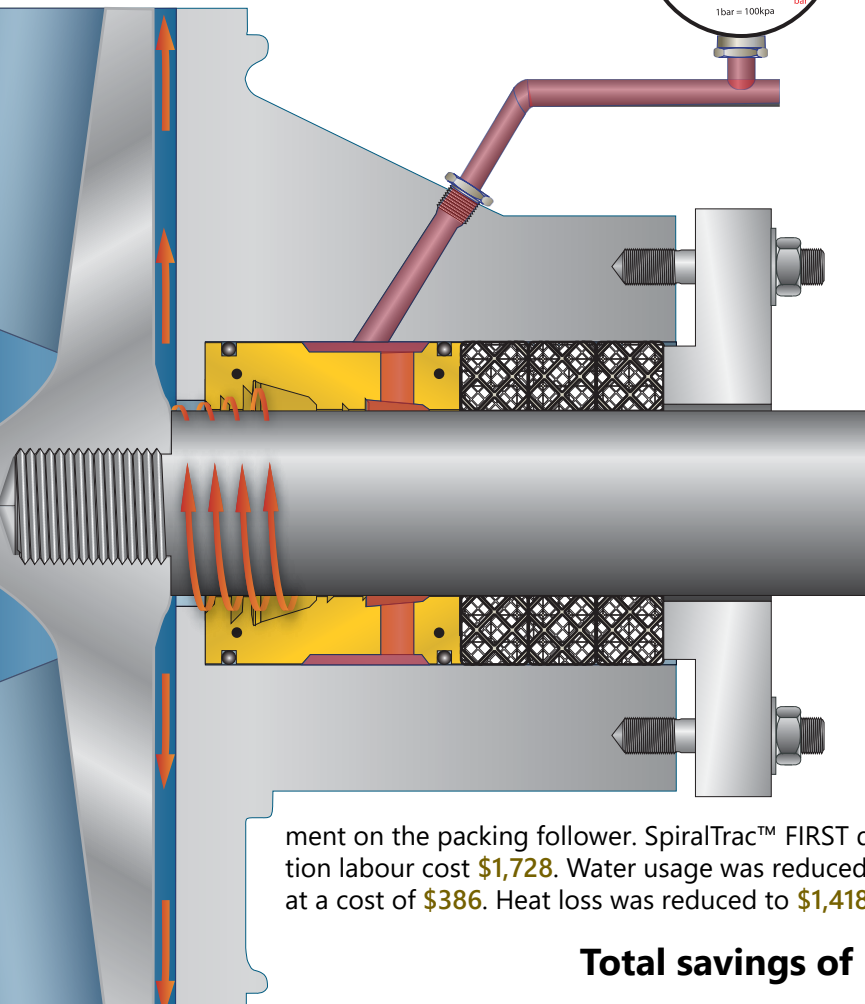
In this featured story we have a Wemco 3112 Tank Pump, pumping Paper Stock under 3.8 bar (55 psi) pressure. Shaft size is 3.935" (100 mm). This pump was repacked 25 times per year at a cost \$300 per repack with a total of \$7,500 annually, not to mention the downtime and the labour cost affiliated with the repackin procedure. The flush water was not controlled and had an estimated flow of 5 GPM,



a staggering 2,500,000 gallons per year at a cost of \$1,928 annually. Heat loss calculated from a recent Chesterton Water Survey came to \$4,990 annually.



Wemco 3112 Pump with SpiralTrac™ FIRST device installed



As of Feb 2014 this upgrade has been running successfully since May of 2012 without repacking the pump and with roughly a 1/2" of adjustment on the packing follower. SpiralTrac™ FIRST device, packing and installation labour cost \$1,728. Water usage was reduced to 500,000 gallons per year at a cost of \$386. Heat loss was reduced to \$1,418 annually.

— Solution

To improve packing life and reduce flush water usage a SpiralTrac™ Version P FIRST device was installed with three rings of Chesterton 477-1 packing. The FIRST device has flush restriction built into the bushing and still maintains the SpiralTrac™ technology to remove solids from the stuffing box. This built in flush restriction does not require a flow meter.

— Result

As of Feb 2014 this upgrade has been running successfully since May of 2012 without repacking the pump and with roughly a 1/2" of adjustment on the packing follower.



Total savings of \$11,306 per year!



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