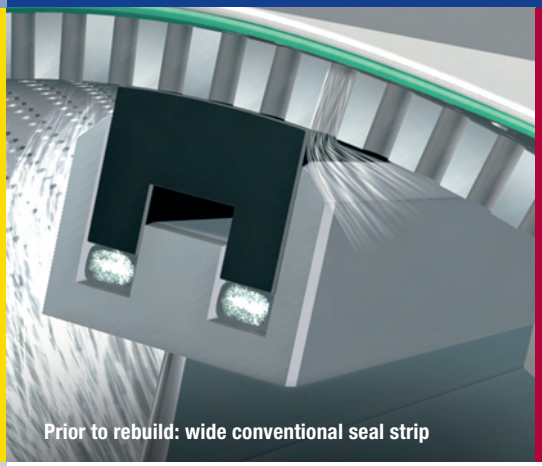
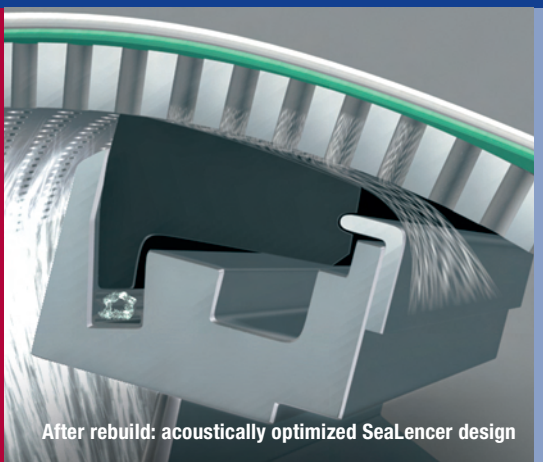
Voith Paper

VOITH

SeaLencer™
The silent suction roll design



Prior to rebuild: wide conventional seal strip



After rebuild: acoustically optimized SeaLencer design

Our solution

- Acoustically optimized seal strip geometry
- The SeaLencer gap (patent pending) enables a smooth air refill of the vacuum after leaving the suction zone
- This eliminates the implosive vacuum release that causes suction roll whistling with conventional seal strips
- Reliable low-maintenance system with excellent emergency running characteristics

Applications

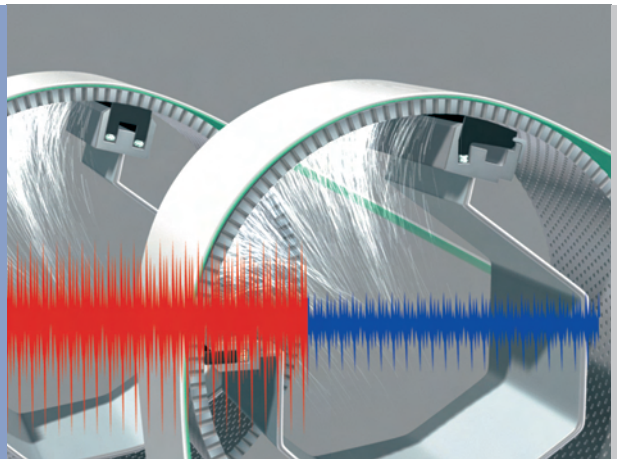
- For all suction rolls in paper machines for every grade (graphic, B&P, tissue, etc.)
- For all operating speeds
- All existing suction rolls, regardless of original supplier, can easily be upgraded to the new SeaLencer seal strip system

Your benefits

- Much quieter suction roll operation than with conventional seal strip systems
- Greatly improves conditions for machine operators in compliance with the EU regulations on workplace noise levels
- Longer service intervals due to its revolutionary geometry which reduces the seal strip wear
- Up to 10 % energy savings thanks to a reduced braking effect by the SeaLencer deriving from the smaller contact area between seal and roll shell as well as a decreased hose pressure

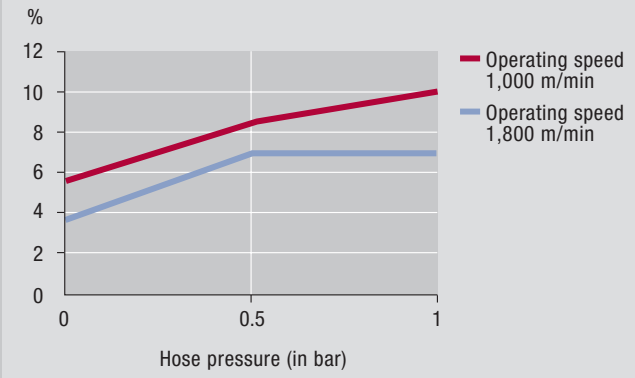
Voith Paper Rolls GmbH & Co. KG
Linzer Straße 55
3100 St. Pölten, Austria
Tel. +43 27 42 806 0
Fax +43 27 42 771 73
info.voithpaper@voith.com
www.perfectfit.voithpaper.com

Graphical representation of noise reduction



Results on the Voith suction roll test facility under identical conditions

Drive power savings with SeaLencer



Results

- More than 3 dB(A) noise reduction, equal to 50 % acoustic energy reduction
- Longer seal strip system life
- Up to 10 % less suction roll power consumption than with conventional seal strips

For example:
About 8.5 % drive power savings at 0.5 bar hose pressure and 1,000 m/min operating speed (cf. graphic)

Economic advantages

- Energy savings thanks to smaller contact area with the roll shell
- Less cost outlay for roll changes and production outages, thanks to longer seal strip system life and extended service intervals
- Payback within 1.5 years

VOITH
Engineered reliability.

p 3402 e 2006-06 2000 MSW/MA Printed in Germany.