

Case Studies

 **element™ VR**



Vibration Resistance

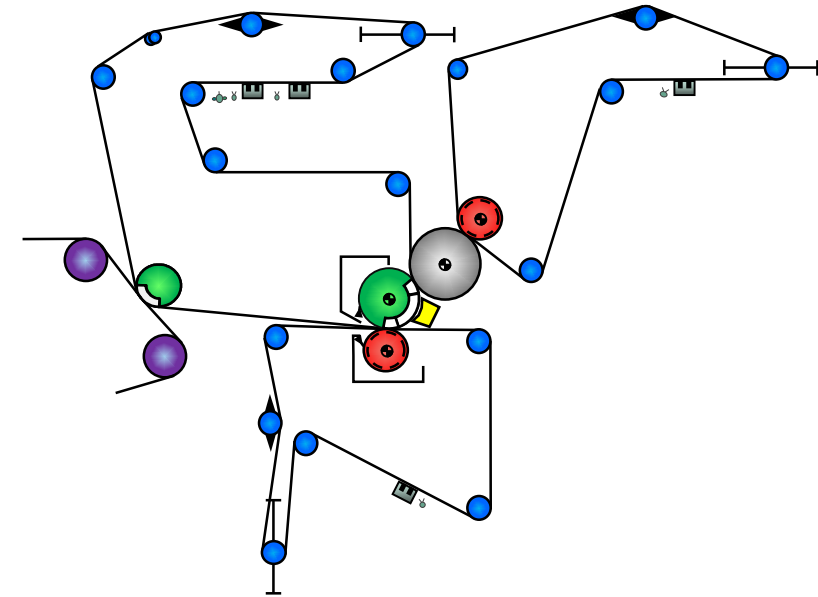
REGION:	Western Canada	
MACHINE:	Trinip	
POSITION:	3 rd Press	
GRADE:	Newsprint	
BASIS WEIGHT:	26.5 - 32# / 3000	43-52 gsm
SPEED:	3900 fpm	1190 mpm
FURNISH:	TMP	

OBJECTIVES:

Reduce 3rd Press vibration levels
 Maintain machine speed and production levels

RESULTS:

- Initial trial felt showed promising results but was damaged off at only 11 days. Customer reordered
- Next trial felt ran 38 days with low vibration levels and scheduled off. Customer reordered 3 more.
- Element VR has now become a standard felt for the position.
- Record life set with recent run – 63 days!

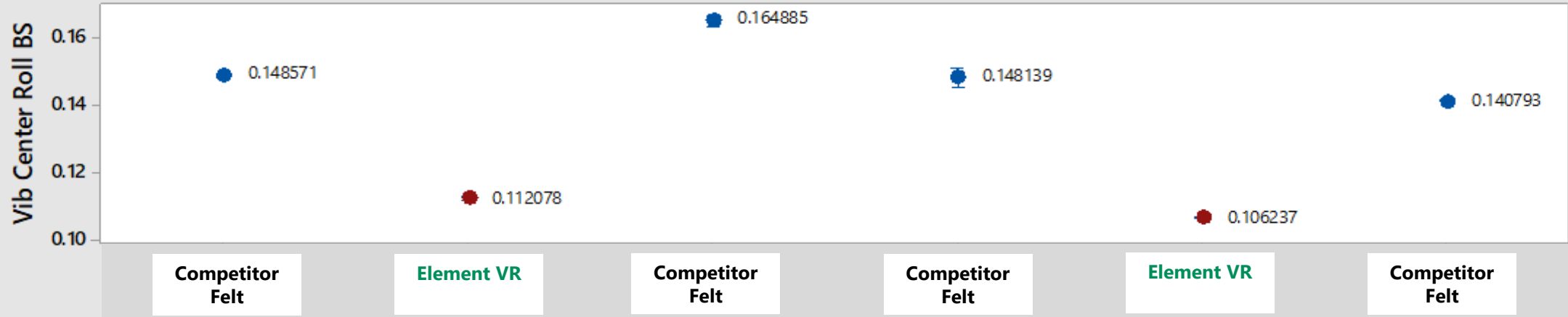


VALUE

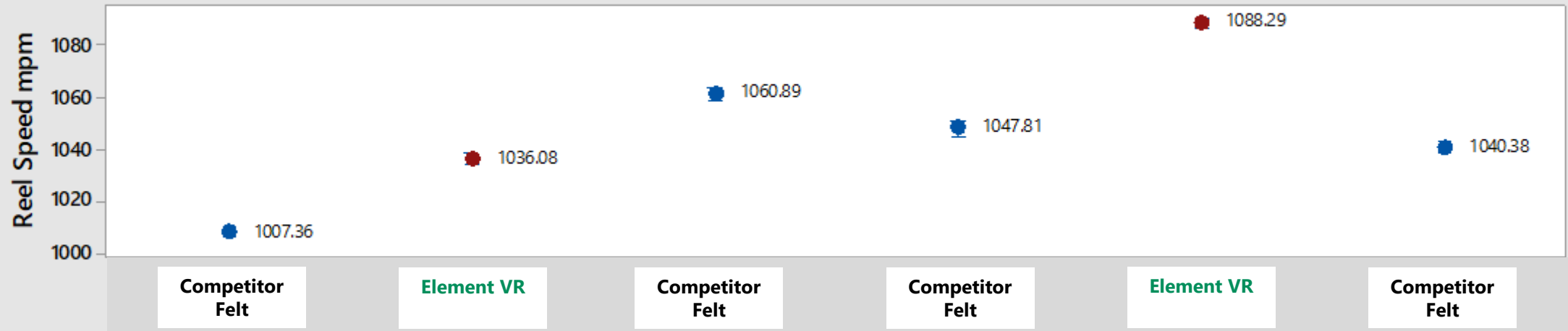
Increased production due to not having to reduce machine speed due to high vibration levels at the 3rd press or stack.

Reduced costs associated to damage as a result of 3rd press vibration.

Interval Plot of Vib Center Roll BS
95% CI for the Mean



Interval Plot of Reel Speed mpm
95% CI for the Mean



- Competitor vibration level: 0.15056 in/s
- element VR vibration level: 0.10916 in/s
- 27.5% reduction in vibration

- Competitor ave. speed: 1039 mpm
- element VR ave. speed: 1062 mpm
- 2.2% increase in ave. speed over life

- Record life – 63 days

