

## Paper Machine Roll

Industry: Pulp & Paper

### Challenge

The OEM solution, a simple labyrinth seal, allowed water ingress into the bearing. Due to premature bearing failure from water contamination, the customer could not get life out of the roll cover or bearings. This led to high maintenance costs, interruption in production due to equipment downtime and safety risks.

### Solution

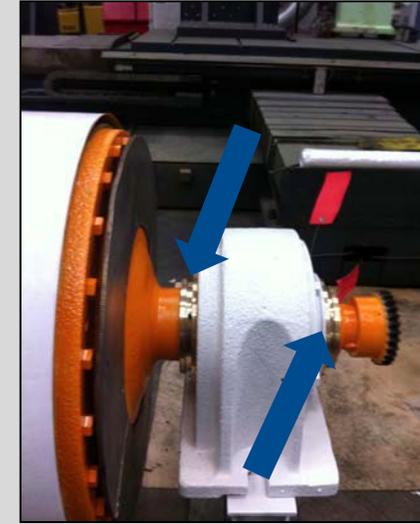
The OEM labyrinth seal was machined off and a flanged Inpro/Seal® PMR (Paper Machine Roll) Bearing Isolator was installed. Inpro/Seal Bearing Isolators are non-contacting compound labyrinth seals that permanently protect against contamination ingress and lubrication loss.

### Result

The first PMR Bearing Isolator was installed on a paper machine roll in 2016 and has exceeded customer expectations. Since then, the mill continually replaces all OEM labyrinth seals with Inpro/Seal PMR Bearing Isolators on every roll rebuild.



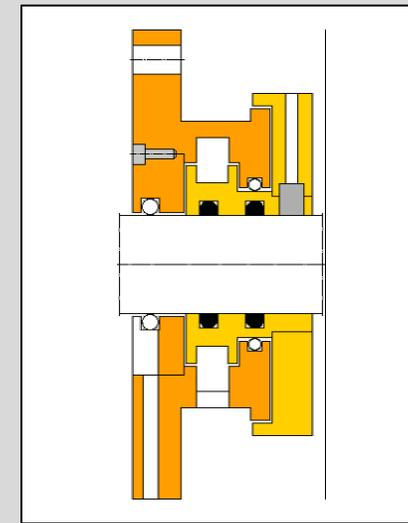
**Before:** Paper machine roll with OEM labyrinth seal



**After:** Paper machine roll with PMR Bearing Isolators installed



Inpro/Seal PMR Bearing Isolator



Cutaway PMR Bearing Isolator