

Identifying the Specific Causes of Forming Fabric Wear on a Paper Machine

Section 1 – Headbox/Slice

Is there dirt buildup on slice lips?
Are slice lips deformed?
Are the lips adjusted?
Is there proper slice-to-fabric clearance?

Section 3 – Forming Board, Hydrofoils, Single Blade Foils

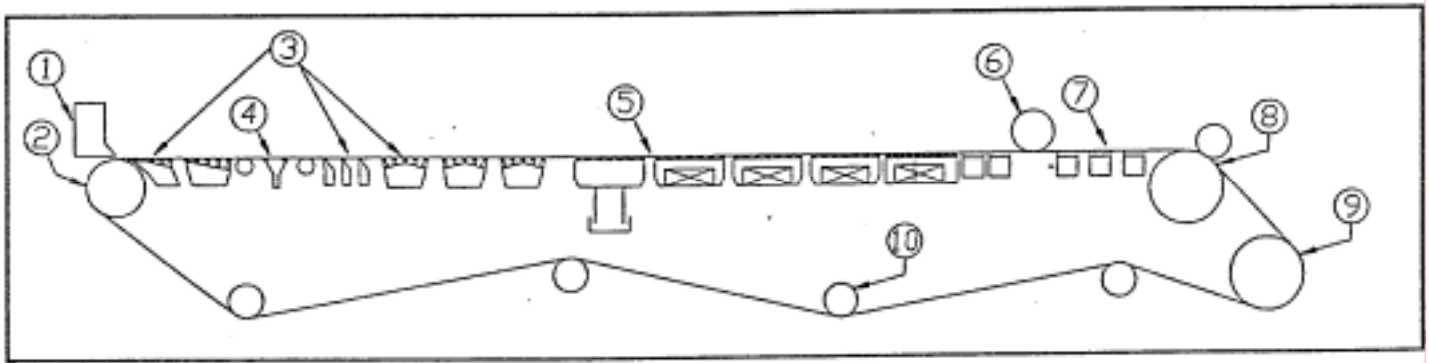
What is blade material?
Check for proper angles/surface condition/pitch.
Check for proper blade width, wider blades induce more drag.
Check for sharp edges, if blades are ceramic.
Are blades leveled with each other, as well as with other units?

Section 2 – Breast Roll, Shower, Doctor

Identify material, compare to approved list.
Surface condition, when last reground?
Is roll deflected or cambered, how much?
Bearings, are they included in maintenance schedule?
Showers, check PSI/nozzle distribution/plugging.
Doctors, check for pressure/material/worn areas/ringing of water around BR.
Leaking seals, tray-to-doctor seal leaks can cause water to fall on fabric.

Section 4 – Table Rolls, Deflectors

What is table roll material?
Check for proper roll-to-fabric position.
Check for proper surface condition.
What is deflector material?
Check condition of deflector surface.



Section 5 – Vacufoil Units

What is blade material?
Check for proper angles/surface condition/pitch.
Check for proper blade width, wider blades induce more drag.
Check for sharp edges, if blades are ceramic.
Are blades leveled with each other, as well as with other units?
Check vacuum levels, are they graduated towards dry-end?
Check water outlet size; is it large enough to evacuate the water?
Check deckle seals for proper fit and height.

Section 8 – Couch Roll

What is surface condition, material, hole configuration?
Check for hard water deposits, plugged holes.
Check for roll diameter variations/cambering/deflection.
Check bearing condition.
Check power transmission – vacuum versus wrap.
Check power ratio between couch and forward drive roll.

Section 6 – Dandy Roll

Check for proper bearing conditions, if non-driven.
Check for speed variations between fabric and roll, if driven.
Check for pressure and deflection magnitude of fabric.
Check surface condition of roll itself.

Section 9 – Forward Drive (wire turning) Roll

What is surface condition, material?
Check for roll diameter variations/cambering/deflection.
Check bearing condition.
Check power ratio between couch and forward drive roll.

Section 7 – Suction Boxes

What is material/condition of surface?
Check for proper hole or slot size and pattern.
Check for vacuum levels, are they graduated?
Check dry line location, can any boxes be eliminated?
Check levelness of all boxes.

Section 10 – Return Rolls and Doctors

What is surface condition, material?
Check for roll diameter variations/cambering/deflection/roll alignment.
Check bearing condition/hard water deposits.
Check doctor condition/materials/pressure/roll alignment.
Check shower condition/plugged nozzles.