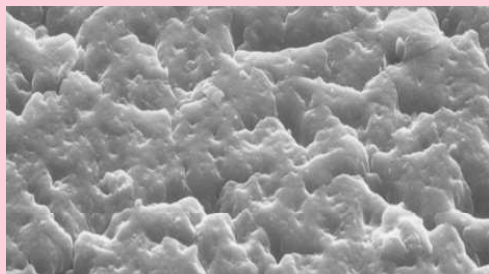




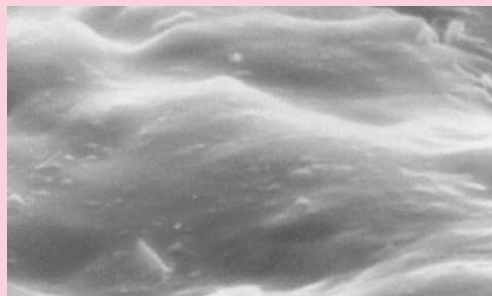
ROLLER CONTAMINATION ELIMINATION SYSTEM

A MICROSCOPIC VIEW

A look at the surface of a roller under a microscope makes the issue very clear.



An uncontaminated roller has a nap that allows ink to split and properly transfer to the plate promoting quality print production.



Roller contaminants build up over time creating a glaze that hinders proper ink transfer. This reduces the ability to achieve and maintain a proper ink water balance.

SYSTEM BENEFITS:

- **High print quality**
- **Reduced plate blinding**
- **Extended roller life**
- **Long-term cost savings**
- **Reduced downtime**

A COMPOUNDING PROBLEM

In today's pressroom, printers must contend with multiple sources of contamination on the ink rollers. These can include:

1. Much **higher pigment loads** characteristic of modern ink design
2. **Alternative surfactants** used in UV washes and fountain solutions
3. **Rising calcium** in papers and other substrates

All of these by-products are contaminants in the ink rollers and none can be completely removed by presswash alone. Further, contaminants have different solubility characteristics: some are solvent soluble, others water soluble and still others are insoluble. Multiple cleaning mechanisms are needed for a full clean

In addition to all of these issues, calcium, soap compounds and clays can easily ride this roller surface down to the printing plate causing plate blinding.

Clearly, the goal of any roller cleaning system should be to get the roller surface clean so that the proper transfer of ink can occur.

TO USE THE SYSTEM, FOLLOW THESE STEPS:

- 1 Wash up ink rollers using your usual UV presswash: **Tower IP Wash** or **Tower Colorkleen**
- 2 Apply **Tower Super Roller Cleaner** to ink rollers and allow it to evenly coat rollers. Allow 5 minutes for product to work into rollers.
- 3 Flush **Tower Super Roller Cleaner** with a UV press wash, followed by a water rinse.
- 4 Apply **Tower Deluxe Calcium Rinse** to the rollers. Make sure the rollers are evenly coated and wet. Allow 5 minutes for product to work into rollers.
- 5 Flush **Tower Deluxe Calcium Rinse** out with hot water.