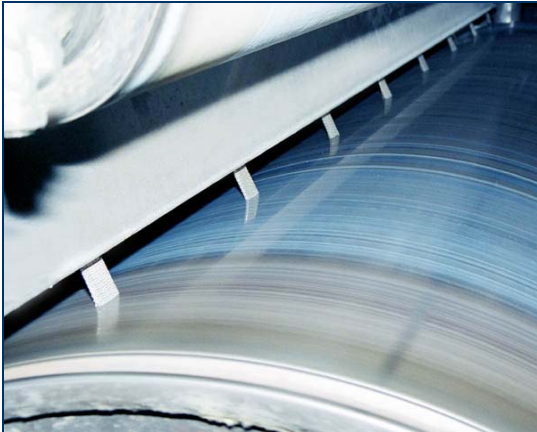


EV ReDoc® - improving PM process efficiency



EVG has a new, highly efficient solution for cleaning contaminated PM cylinder- and roll surfaces: **EV ReDoc®**.

EV ReDoc is a continuous online reconditioning system that eliminates dirt like stickies, fibers and coating color from cylinder surfaces. Even old and worn out cylinders can be cleaned effectively with the help of EV ReDoc – system. Conventional doctor is not able to keep cylinders clean.

EV ReDoc -system was the right solution in Metsä Tissue, Mänttä Finland.

Metsä Tissue has **6 EV ReDoc units in PM 7 and 4 units in PM 5**. The both machines produce special baking paper and problem maker is silicone that is used in the coating process. Before EV ReDoc units, silicone got stuck onto cylinder surfaces causing paper defects and heat transfer problems. Mechanical plastic- and steel doctors were used to clean the surfaces, but they left stripes onto cylinders.

Mr. Kari Karttunen, Line Director in Metsä Tissue Mänttä tells that after using EV ReDoc system production has increased 24 000 to 30 000 tons/year and problems with contaminated cylinders have disappeared. Metsä Tissue has received great feedback from end-customers about better paper quality. Silicone does not leave any stains to paper after using EV ReDoc, says Karttunen.

The mill is satisfied with the operation principle of EV ReDoc. Karttunen says that the idea of EV ReDoc is functional and the system is very reliable.

Dirty cylinders are the reason for many bottlenecks

- Heat transfer decreases leading to poor drying capacity
- Uneven moisture profiles
- Paper quality problems
- Reduced production efficiency
- Increasing manual cleaning of cylinders



Fibers, starch and chemicals have created an isolating layer onto cylinder surface.



Operating principle of EV ReDoc®

The steel brush collects the dirt in the bristles and stores it until the end of the cylinder surface. The dust/dirt will be removed from the brush when the brush reaches the end of cylinder surface. The tension of the brush is being released and the brush throws the dirt away from the cylinder.

EV ReDoc -system includes EV ReDoc beam with selected cleaning elements and supporting brackets, drive unit, fine adjustment unit and local control box.

Other EV ReDoc® references:

Stora Enso: coated fine paper, printing paper and liquid packaging, Finland

M-Real: LWC base paper, folding box board, coated fine paper, Finland

Ahlstrom: label paper, Finland and filter paper, UK

Gold Hua Sheng: fine paper, China



Please send me further information on EV technology and know-how:

- EV MRST™ for mist removal and forming fabric cleaning
- EV Web Stabilizers™
- EVpv™ pocket ventilation
- EV Survey™ for production optimization
- EV Cleaner™ for dryer fabric cleaning
- EV Web Scanner™ on-line CD moisture profile measuring technology
- EV Web Eye™ on-line MD moisture profile measuring technology
- EV Heat Recovery™
- EV ReDoc® - continuous reconditioning of rotating surfaces

Name: _____

Mill: _____

Address: _____

Email: _____

Please, fax on +358 5 218 4828. Thank you!