

## C A S E S T U D Y



### FS Karton GmbH (MM Karton group) Neuss Rheinland Germany



#### OVERVIEW

**MM Karton Group / FS Karton** is no. 2 in Europe in the package processing industry. The factory uses river water for their paper mill processes including vacuum pump cooling, paper rolls cooling systems and the high pressure water nozzles.

#### WATER SYSTEM CHALLENGES

The plant had suffered general scale problem at all technical facilities because of the high water hardness. The management's main concerns were the large vacuum pumps and the high pressure water nozzles.

#### SOLUTION

**ScaleBuster®** conditioners were installed in all water supply/recirculation pipe work (before or after pumps) to protect 11 high speed vacuum pumps, paper rolls cooling systems and the high pressure water nozzles.

#### RESULTS

The plant maintenance manager reported prolonged maintenance intervals (factor 4+) and effective scale protection (including the high pressure water nozzles). The production is more reliable (breakdown downtime cost is €50.000 per day!) with less maintenance and labour costs.

#### ABOUT THE TECHNOLOGY

The patented **ScaleBuster®** technology completely replaces traditional chemical treatment; providing control of scale and corrosion in various water process systems to create an exceptionally clean system. This dramatically reduces energy and water consumption, while reducing or, in certain cases, eliminating toxic water discharge to the environment.