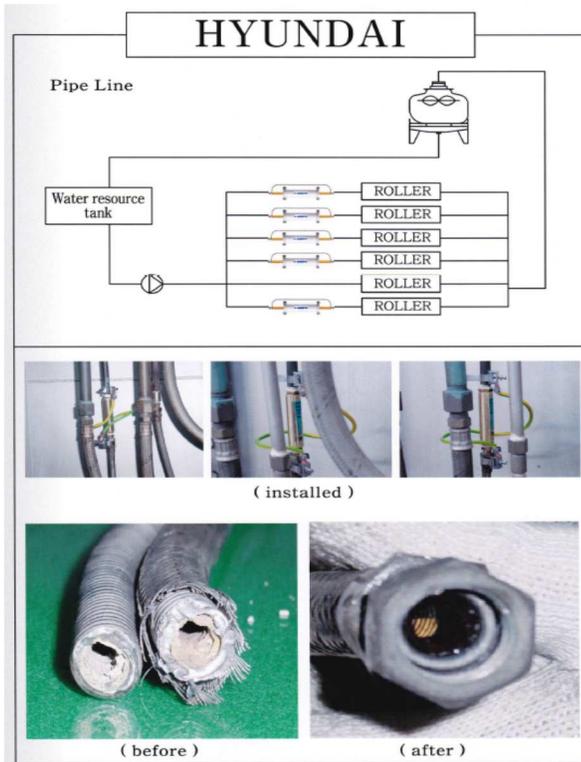


## C A S E S T U D Y

### Hyundai Heavy Industries South Korea



#### OVERVIEW

The factory uses water for cooling furnace rolls coil cooling systems in their manufacturing process. The water is cooled by cooling towers, stored in tanks and pumped to the rollers as required by temperature controllers of the manufacturing process.

#### WATER SYSTEM CHALLENGES

The furnace rolls water coil cooling system got clogged with scale causing downtime and maintenance work. In the past, the company had used chemicals (to prevent as well as remove existing scale). In past years magnetic water treatment solution has been introduced for a test but was not successful in preventing scale buildup.

#### SOLUTION

A number of **ScaleBuster**<sup>®</sup> test units have been installed in SUS Pipes and Spray Lines for testing periods ranging from 3 months to 12 months. Following the good test results, all cooling loops and all coils of all furnace units in the factory were equipped with **ScaleBuster**<sup>®</sup> water conditioners.

#### RESULTS

The **ScaleBuster**<sup>®</sup> water conditioners have removed scale build up in the system (in pipes as well as heat exchanger coils) and prevented new scale build up.

The company had eliminated the cost of chemicals to prevent scale in the water and chemical clean up. More important, the downtime was reduced dramatically.

Following this successful solution, the **ScaleBuster**<sup>®</sup> water conditioning technology was adopted by other Hyundai facilities in South Korea.

#### ABOUT THE TECHNOLOGY

The patented **ScaleBuster**<sup>®</sup> 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.