

# Steam Profiling Controls Upgrade

## Case Study

**Challenge** A specialty paper manufacturer in the U.S. had a four-foil, 60-zone, remote operated Kadant Steam Profiling System that is used to add moisture to the paper and control sheet curl. Repeated failures with the old remote manual controls system caused excessive downtime and off-spec production, creating issues with spare parts availability.

**Solution** Kadant provided the mill a new back-plate assembly for the electronics panel with a complete upgrade package pre-installed and tested, ready for mounting. During a one day shutdown the old electronics were removed from the panel, the upgrade package was installed, and a new HMI touch screen was installed in the operator's control panel. Operator training was held the following morning and the system was then turned over to operations.

**Results** The steam profiling controls upgrade improved the reliability and performance of the steam profiling system. The upgrade, which included a PC based diagnostics program, enhanced the ease of troubleshooting. The specialty papermaker was very pleased with the installation, training provided, and end result of the upgrade project.

### Highlights

- Controls upgrade improves steam profiling system uptime.
- Improve accuracy of profile management with the latest controls.
- Operating system and electronic components have 20 year projected lifecycle.
- Transparent system operation reduces operator training time.



Old Control Panel



Upgraded Control Panel