Challenge A specialized paper metalizing company was in the process of upgrading its remote manual moisture control system and had a need to integrate it with their scanning moisture gage package. No software had been developed to provide the integration they required.

Solution Kadant provided an upgraded remote manual moisture control system and developed closed-loop moisture control software that would provide cross-machine and machine-direction set-point control of base sheet moisture content.

Results The software package was successfully installed and after initial tuning and sample testing was conducted to correlate the gage to actual readings, the system was put into operation. The customer has been pleased with performance. The closed-loop moisture control software is able to control the moisture set-point within a couple of tenths of a percent. The primary goal of the software is to have a lay-flat sheet with even moisture across the web so that the film will bond smoothly without wrinkling.

Market Insights
- Automatic closed-loop control of steam profiler actuators.
- Precise control of sheet moisture and curl.
- Improves sheet quality.
- Reduces reject rates and waste.
- Kadant control software is compatible with all types of data transfer packages with minimal programming changes.