

Steam Systems for the Corrugating Industry

Kadant Johnson's extensive condensate behavior and heat transfer studies on rotating rolls and hot plates and the integration of systems components with the steam system provide for optimum steam distribution and handling: a steam system that delivers roll temperature uniformity and maximum heat transfer. Three unique steam system configurations allow you to select the best system for the specific needs of your machine and grade combination.

How each System Measures Up	ThermoTrap™ Steam System	ThermoPlus™ Steam System	ThermoMax™ Steam System
Optimal speed range (fpm)	150 – 900	150 – 1200	150 – 2500
Number of hot plate zones	Three	Three	Four
Proven design	✓	✓	✓
High-energy efficiency	✓	✓	✓
Rapid condensate return at start-up	✓	✓	✓
High-speed capability with Turbulator™ Bars		✓	✓
Consistent roll temperatures at higher speeds		✓	✓
Uniform cross direction roll temperature		✓	✓
PLC control with graphic user interface		✓	✓
Unproved visibility of system operation		✓	✓
Increased feedwater pump life		✓	✓
Supervisory control of blow-through steam		✓	✓
Reduction of roll bowing following stop		✓	✓
Maximum heat transfer			✓
Fast response to grade changes			✓
Ability to handle wide range of load variation			✓
Optimum condensate drainage from plain-shell roll			✓
Rapid hot plate temperature response			✓
Reduced feedwater pump horsepower			✓
Minimum maintenance requirements			✓
Reduced troubleshooting time			✓
Rapid air removal at start-up			✓
Remote performance diagnostics			✓