

# CASE STUDY

## Global Paper Manufacturer Improves Control and Troubleshooting

### CHALLENGE

A global OEM in the paper industry was challenged by a customer to update an old control system. The existing hydraulic racking system lacked in diagnostics and over time became unreliable. The customer requested the integration of new technology that could provide better control, improved troubleshooting, and increased reliability by eliminating leaks.

The integration of proportional controls for the nip pressure needed to communicate to an existing control system containing transmitters. In addition, a physical match with the existing system down to the location of each port. The precise fit will allow the mill to quickly install the new valve rack.

### SOLUTION

Price Engineering's local Account Executive provided an onsite evaluation of the existing system to our Hartland engineering team. A few customer meetings were conducted with the mill. The detailed data gathered covered all physical and integration challenges. Port location, system functionality and customer required improvements were documented. A number of customer hydraulic manifolds were used to simplify the system and clean up the leak points. This also would reduce troubleshooting time and installation time. The design included valves to isolate each leg of the system.

Eaton Vickers KCBG proportional pressure reducing valves helped with system stability and pressure requirements. A very cleanly laid out design allowed perfect connection to the field.

### BENEFITS

1. All valve rack pressure control was pre-set in Hartland prior to installation.
2. Quick installation within all mill requirements.
3. A simplified system with reliable and easy to maintain components.
4. Reduced downtime.
5. Strong and stable performance of the system promoted a higher quality result by the mill.

