

CUSTOM EASY-TO-CLEAN SPRAY HEADER FOR QUICK & SAFE NOZZLE CHANGE-OUT

THE CHALLENGE

A paper mill was facing a production and safety challenge with an inefficient spray header that was used to spray chemical onto paper during production. When the nozzles would plug, production would shut down for cleaning for long periods of time and rather than shut down production, the operators could potentially try to clean the nozzles while the machine was running. The customer wanted to eliminate excess production disruption as well as the potential risk involved with nozzle cleaning and change-outs.

THE SOLUTION

Our application expert, Clement Cheung, worked with the customer and recommended a pipe-in-pipe spray header. The spray header is designed to slide out of the machine while the machine is still running and after the fluid supply is turned off. The spray header would then be moved to a safe location for the operator to clean and change-out the nozzles. The spray header is fitted with quick-connect nozzles that can be changed in seconds without tools. These quick-connect nozzles align themselves automatically with the spray header every time a nozzle is changed. This feature reduces replacement time by 80% and prevents machine shutdown.

THE RESULTS

- ▶ Improved Operational Efficiency and Productivity
- ▶ Elimination of Potential Safety Risks
- ▶ Improved Product Quality

For more information on this solution or if you have a fluid handling challenge of your own - Contact a John Brooks Company Application Expert today!

ANOTHER PROBLEM SOLVED!



PAPER PRODUCTION | CHEMICAL APPLICATION

CUSTOM EASY-TO-CLEAN SPRAY HEADER

TECHNOLOGY UTILIZED

- John Brooks Custom Built Pipe-In-Pipe Spray Header
1" SCH 160 Inner Pipe | 2.5 SCH 40 Outer Pipe
- Quick-Connect Spray Nozzles | 110° Flat Spray

HOW IT WORKS

- Turn off the Fluid Supply to the Spray Header
- Slide out the Inner Spray Header from the Outer Pipe
- Change the Nozzle Tip by twisting the Tip Counter-Clockwise 90°
- Insert a New Nozzle Tip into the Quick-Connect Nozzle Body by twisting the Tip Clockwise 90°
- Slide the Inner Spray Header back into the Outer Pipe
- Turn on the Fluid Supply to the Spray Header