

Black Liquor Nozzles

Optimal boiler performance,
reduced operational costs



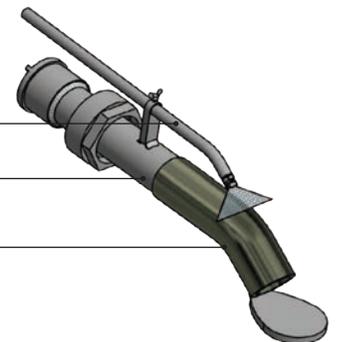
Ensure a smooth and efficient liquor recovery process

WSI Black Liquor Nozzles are specialized components designed for use in liquor recovery boilers within the Pulp and Paper industry. The nozzles are standard parts integrated into the designs of original equipment manufacturers (OEMs), guaranteeing the correct distribution of black liquor within the boiler in a laminar fashion. This controlled and efficient distribution of black liquor plays a crucial role in the boiler's performance and overall operational effectiveness.

Improve operational efficiency and safety

In line with the requirements and specifications set by boiler manufacturers, WSI Black Liquor Nozzles are designed for optimal performance and safety. The nozzles undergo a unique overlay process using our patented Unifuse® 360 automated welding, resulting in a smooth, highly resistant surface that significantly extends their service life.

Additionally, these nozzles come equipped with an air blower device and a quick-connect nipple, which not only reduce replacement time but also operate within a specific pressure range (1.4 to 13.8 bar). This pressure range is compatible with the customer's plant compressed air supply system, ensuring a secure and safe connection.



Air-blower device (AISI 304L)

Nozzle base-metal (AISI 304L)

Unifuse® 360 overlay (Alloy 400)

Smarter Liquor System	
Extended Service Life	The special alloys and design features increase the longevity of the nozzles
No Equipment Replacement	There's no need to replace existing equipment, reducing costs
Reduced Replacement Time	Replacing these nozzles is quicker, leading to increased operational efficiency
Quality and Reliability	
Improved and Stable Nozzle Performance	Nozzles deliver more consistent and reliable performance
Long-Term Performance Verified	Extensive testing confirms their enduring reliability
Safety	
Reduced Incidents	Fewer cases of operators needing to clean or replace damaged nozzles
Improved Working Environment	Less manual cleaning enhances workplace safety

WSI certifications:

ISO 9001: Quality Management
ISO 14001: Environmental Management
ISO 45001: Occupational Health and Safety Management
ASME S: Boilers ASME BPVC Section I
ASME U: Pressure Vessels ASME BPVC Section VIII
NBIC R: NBIC repairs in the field or shop

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