Application Case Study

Application: Cleaning Truck Transmission components		**Date:** 10/7/2024
Serial number: 1118-0825	**Machine model:** CI-2808F	
Machine type: Conveyorized Indexing	**Industry:** Automotive	

Customer summary:	Precision machining of truck transmission components.
Item to clean:	Transmission Components
Contamination:	Light soils. Parts will have been pre-cleaned, coming from leak test.
Cleanliness requirement:	Part cleanliness is check in combined groups of three (3) parts. Maximum particle size to be less than 800 micron. Total mass not to exceed 70 mg.
Dryness requirement:	As dry as possible using a heated blowoff.
Production rate:	1.75 to 2 minutes per part.
Process parameters:	Wash (heated) and heated blowoff.

Customer background: Customer is a precision CNC machining company serving automotive, heavy equipment, and off-highway industries, specializing in complex, high-volume components. For transmission manufacturers, it delivers parts with tight tolerances and cleanliness standards where even small residue can impact performance.

Challenge: Transmission components have complex geometries and tight tolerances, making thorough cleaning of oils, chips, and contaminants challenging. The customer needed a conveyorized index cleaning system that ensured consistent cleanliness while meeting production and automotive standards.

Solution: A conveyorized indexing cleaning system was built to deliver precise, repeatable cleaning to all surfaces, including internal passages, while maintaining production throughput and strict cleanliness standards.

Cleaning Method: High-pressure aqueous sprays with targeted agitation were ideal for this application because they clean all external and internal surfaces, followed by a heated blowoff to ensure thorough, residue-free drying.

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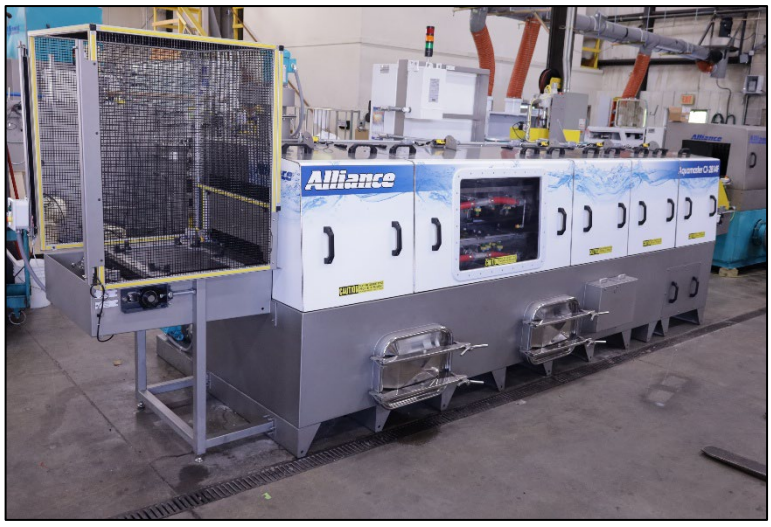
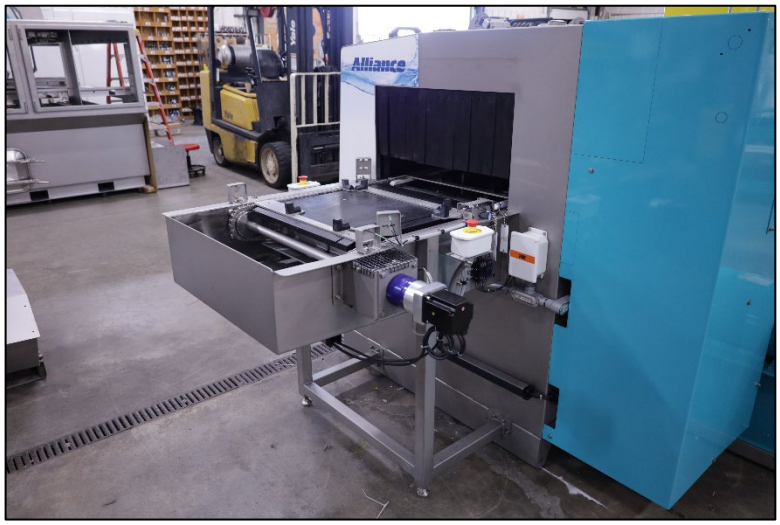
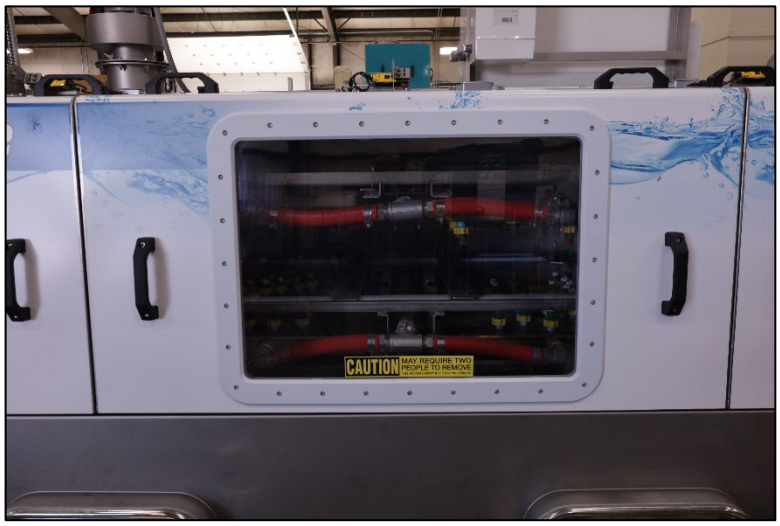


Caption A



Caption B



Caption C