

← CASE STUDY ARCHIVE

Sonic's Air Nozzle Manifold Blow-Off System Transforms Factory Automation







Overview

A Japanese leader in factory automation and a certified integrator of the largest maker of industrial robots in the world required a solution to remove excess machining coolant from the inverted cavity of clutch drum parts before the next machining center process. The excess coolant carryover from one machining center to the next created maintenance issues for the customer. The main objective was to reduce or eliminate coolant carryover, and equally important was to integrate the Sonic System into the available confined space.

Solution

Sonic's Air Nozzle Manifold Blow-Off system was timed to the "flip" sequence, producing 26,000+ FPM (7,924 MPM) of impact velocity to blow off the inverted cavity while the machined part was stationary for 10 seconds.

Result

Since the installation of the Sonic's air blow-off system, carry-over has been reduced by 90%, resulting in less maintenance of the robotic arm and components while maintaining the small footprint required for the limited installation space.

KEY TAKEAWAYS

A Japanese leader in factory automation and a certified integrator of the largest maker of industrial robots in the world required a solution to remove excess machining coolant fr...

Sonic's Air Nozzle Manifold Blow-Off system was timed to the "flip" sequence, producing 26,000+ FPM (7,924 MPM) of impact velocity to blow off the inverted cavity while the machin...

Since the installation of the Sonic's air blow-off system, carry-over has been reduced by 90%, resulting in less maintenance of the robotic arm and components while maintaining th...

Your one-stop shop for high velocity industrial air delivery equipment. Saving Energy Worldwide...ONE PSI AT A TIME™

PRODUCTS

- Air Knife
- Air Nozzles
- Air Knife Systems
- Air Knife Systems Accessories
- Industrial Air Blower System
- Air Blower Accessories
- Custom Solutions

COMPANY

- About Us
- Eco-Stewardship
- Case Studies
- Blog
- Videos

DISTRIBUTORS

- Africa
- Canada
- South America
- Asia
- Europe
- United States
- Australia
- Mexico

View All Distributor Locations

CONTACT US

1050 Beacon Street
Brea, CA 92821, USA

800-82-SONIC
714-255-0124

asksonic@sonicairsystems.com

Mon to Fri, 7:30 AM to 4:00 PM PST

YouTube Channel

© Copyright 2026 Sonic Air Systems. All Rights Reserved.