



NIAGARA SYSTEMS HELPS HONDA'S ALUMINUM FOUNDRY ELIMINATE PISTON REJECTIONS

Custom washer and dryer removes particulates in piston ring grooves



Niagara's washing and drying system helps CAPT reduce the number of rejected pistons.

Celina Aluminum Precision Technology Inc. (CAPT) is a master aluminum foundry whose manufacturing processes result in high-quality aluminum products. These products become part of Honda automobile engines known for efficient operation, reduced friction, higher output, and enhanced gas mileage. For example, CAPT's advanced piston surface treatments reduce engine friction to improve fuel economy. But CAPT's high standards meant the company had to reject pistons with any kind of contamination in the grooves of their rings.

Looking for a way to eliminate the contamination, CAPT turned to the washing experts at Niagara Systems.

CHALLENGE

CAPT sought to reduce the number of pistons rejected due to contamination in piston ring grooves. It needed a way to remove particulates and therefore sustain the high quality of its product.

SOLUTION

To solve the problem, Niagara custom-engineered a fully automatic, robot-tended, high-pressure washing and drying system to eliminate particulates in piston ring grooves.

RESULTS

Niagara's innovative washing and drying system has allowed CAPT to virtually eliminate the need to reject pistons due to ring groove contamination.

CLIENT NAME

Celina Aluminum Precision
Technology Inc. (CAPT)

LOCATION

Celina, OH

SERVICES

- Consulting Services
- Custom Design & Engineering
- Manufacturing Services
- Delivery & Installation
- Training & Maintenance

SPECIFICATIONS

- 300 Pistons Per Hour
- Temp Range of 120 to 140
Degrees Fahrenheit

RESULTS

Niagara's custom high-pressure washing and drying system removes particulates in piston grooves to virtually eliminate the need for piston rejects.