



## LARGEST GAS CYLINDER MANUFACTURER LOOKS TO NIAGARA FOR THOROUGH WASHING

Manufacturer requires more even cleaning to reduce scrap metal rate.



*Southern California manufacturer cut its scrap rate in half with a custom Niagara washing system.*

The world's largest manufacturer of high-pressure aluminum and composite gas cylinders was seeking a more effective washing system for its products. The company was losing high rates of

rework and scrap metal due to ineffective washing. Niagara Systems engineered a custom washer to meet the Southern California manufacturer's needs and reduce the rate of scrap.

### CHALLENGE

The manufacturer's cylinders hold all types of gasses, so cleaning specifications are critical to the quality and safety of its product. Its current washer was not able to effectively clean the entire product, leading the company to scrap otherwise reusable material. Niagara Systems was asked to provide a custom washer that would ensure the entire cylinder, inside and out, was effectively washed—regardless of the challenging product shape.

### SOLUTION

Niagara Systems provided a custom washer specific to the manufacturer's needs. The product ensures the wash solution and the rinse water spray pattern cover the entire product. Precise placement of injection nozzles allows insertion inside cylinders to provide an even and thorough internal cleansing, so there is no risk to safety or quality when the product is filled with gasses.

### RESULTS

The custom Niagara solution washes the company's cylinders more thoroughly than the previous washer, allowing it to reuse more of its rework and scrap metal. In a four-month period, the manufacturer has cut its scrap rate in half, from 8.3% to 4.3%. It is confident the washer will allow producing 35,700 more cylinders per million run.

### CLIENT NAME

International Gas Cylinder  
Manufacturer

### LOCATION

Southern California

### SERVICES

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

### SPECIFICATIONS

- 100 Cylinders per hour approx.
- Improved Worker Safety
- More Even, Thorough Washing

### RESULTS

The world's largest manufacturer of high-pressure aluminum and composite gas cylinders is thrilled that a custom Niagara Systems washer has allowed cutting its scrap metal rate in half.

### CLIENT QUOTE

*"Our scrap rate has been reduced from an average of 8.3% to 4.3%, that's massive savings. Thanks again!"*

*—Director of Engineering*