

## Customer Success Stories

# CARPENTER CHEMICALS

## PlafORIZATION™ Solves Problems in Cleaning and Adhesion

**R**ockwell Automation of Gallipolis, OH, makes motor armatures consisting of many thin layered metal disks with a highly polished shaft inserted through them. Also, about 20% of their production uses stainless steel.

Rockwell was experiencing two types of production problems. First, since the armatures were assembled before pre-cleaning, conventional cleaning was not removing process oils from between the disks and along the inserted shaft. Second, their coating did not adhere to the extremely smooth shaft or the stainless steel.

PlafORIZATION™ solved both these problems. It penetrates the small spaces and removes the oils effectively. And the PlafORIZATION™ process not only cleans but deposits a 1-micron seal that tremendously improves topcoat adhesion.

Rockwell conducted impact drop tests to check adhesion. Topcoats over the conventional cleaner showed large chunks of delamination, and the surrounding epoxy powder coating could easily be peeled off. With PlafORIZATION™, no chipping occurred in identical tests, and very little or none at 2 - 3 times the drop distance. Moreover, the surrounding coating simply could not be removed even with a knife.

Rockwell is a strong PlafORIZATION™ supporter and is most helpful in talking to other prospective users.



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