

## CASE STUDY: Greasing Applications in Automotive Safety Switch Manufacturing

Moving from manual process to non-contact jet dispensing  
reduces grease waste by 31% per station per day

### Executive Summary

A large automotive OEM needed a solution to limit the substantial amount of grease used in assembling safety switches on vehicle dashboards.

Nordson EFD's PICO® jet valves saved them about \$295,250 per station per year in grease waste and downtime costs, generating an ROI worth 4x the initial investment in 6 months.

### Challenges

Applying grease onto electronic safety switches with the current semi-automated method created a significant amount of material waste in addition to a huge mess, requiring extensive cleanup, on the production floor.

When the OEM tried using contact dispense valves to increase throughput and reduce waste, it found the valves were difficult to set up in hard to reach areas. In addition, the maintenance frequency was too high.

### Solution

Nordson EFD application specialists analyzed the challenges and the material being dispensed.

After testing the application with different solutions, they recommended the PICO non-contact jet valve system.

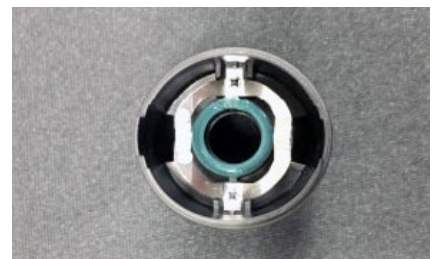
The system provided:

- Easier application in hard-to-reach spaces
- Very precise deposits for better first pass yields with minimal waste/mess
- Higher speed dispensing for greater throughput
- Low maintenance
- Easy integration with tabletop automation



#### Before

*Applying grease by hand leads to messy waste.*



#### After

*Non-contact dispensing delivers fast, accurate deposits.*

*See next page for ROI*



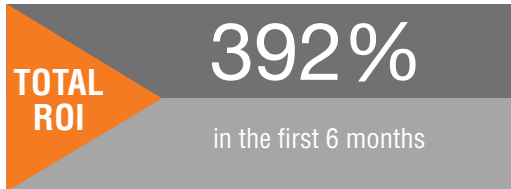
## Results and ROI

Replacing a manual process with non-contact jet valves saved the automotive OEM about 31% in grease waste per station per day.

### Annual Savings per Station

Grease waste reduction	\$277,000
Downtime reduction	\$18,250
<b>Total savings</b>	<b>\$295,250</b>

Cleaner assembly stations were an added bonus, leading to even higher production levels.



## Questions? Contact us.

We're here to help. Talk to an experienced fluid application specialist to learn more about EFD products.

**800.556.3484**

[info@nordsonefd.com](mailto:info@nordsonefd.com)

## Request an Application Test

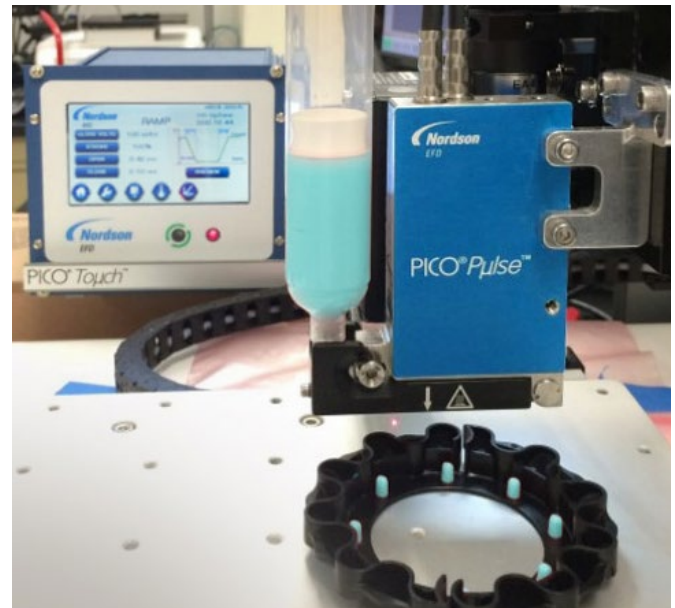
We'll test any part or fluid with our solutions to find the best possible fit for your application.

[Free application test](#)

## Watch Videos

See the PICO non-contact jet valve systems dispense grease in automotive applications.

[Watch video now](#)



EFD's PICO Pulse™ dispensing grease onto a steering wheel component.

## Successful EFD Greasing Applications

- Door lock switches
- Window switches
- Mirror adjustment switches
- Wiper signal switches
- Turn signal switches
- Headlamp switches
- And more...



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