IMI
Precision Engineering

## Case study

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| **Location:** | New York City, NY |
| **Customer:** | New York City Transit |
| **Key benefits:** | Increased equipment uptime |


# New dryer technology extends service life, protects equipment

Engineering GREAT Solutions

## Requirement

Maintenance engineers at New York City Transit had seen conditions where moisture in compressed air caused mechanical problems on subway cars downstream, including preventing the brake trip valve from resetting. The engineers found that the OEM pressure swing dryers on the compressor skids removed damaging moisture when they were first installed on the subway cars, but performance declined, especially during hot, humid New York City summers. To extend dryer life and increase vehicle uptime, New York City Transit asked Norgren for a dryer that would maintain peak performance over time.

## Solution

IMI Precision Engineering designed a test consisting of a multi-stage filtration system to remove particulates, liquid water and oil aerosols and the new IMI Norgren Adsorbent Media Tube (AMT) Dryer. The AMT Dryer uses a polymer tubes impervious to moisture, unlike traditional desiccant beads that fail when saturated. After 12 months of operation in extreme temperatures and humidity, test results showed the air leaving the dryers was as dry as when the system was first installed. The AMT Dryer is projected to last up to 18,000 service hours.

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