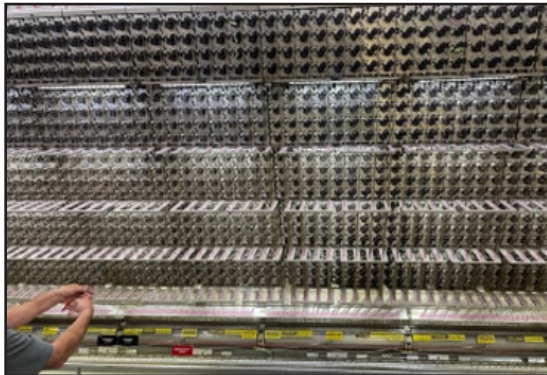


## Challenge

### Background

In a carpet weaving facility, the pneumatic system on the tufting machine could not use any air tool oil due to the concern of staining. As a result, the system was constantly filling up with moisture which resulted in equipment corrosion and poor system performance.

The facility was looking for a lubricant that would not stain the fabric in case of incidental contact, can easily clean with soap and water, has the ability to absorb moisture which would reduce corrosion of the pneumatic components, and has the capability to disperse dirt and debris and remove gums and varnish.



Carpet tufting machine.

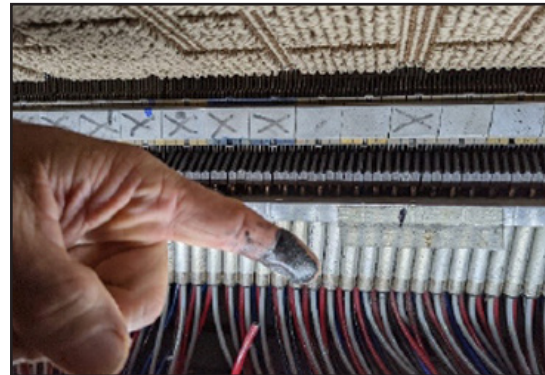
## Solution

### Product

After analyzing the issue, a Chesterton specialist recommended **Chesterton® 650 Advanced Machinery Lubricant**.

**650 AML** is a high performance pneumatic lubricant. It has exceptional water absorbency that helps maintain a lubricating film while preventing corrosion. Unlike petroleum-based lubricants, **650 AML** can be cleaned from fabric with soap and water. This unique, naturally based oil has excellent detergency that helps remove and prevent gummy build up.

**650 AML** was added to the in-line lubricating cups of the pneumatic system.



**650 AML** cleaning build up out of the air system on a tensioning bar.

## Results

### Improved Reliability

Since the addition of the **Chesterton 650 AML**, the tensioning bar has been working more efficiently. It has improved the performance of the tufting machine and reduced unplanned shutdowns.

The water absorbency of the lubricant kept the water in the pneumatic system at bay and thus improved the corrosion performance. The detergency of the lubricant helped clean the tensioning rods and reduce friction and wear.

Due to the success of this application, the customer has added the **650 AML** as a standard stocking item across all plants.



**650 AML** is right choice for improving reliability of pneumatic system.