

# AUTOLIV NISSIN BREAK SYSTEMS

FINDLAY, OH

*Steel Plate Retrofitted Over Diamond Plate to Increase Slip Resistance and Worker Safety*



**BEFORE**



**AFTER**

## THE SITUATION

Autoliv Nissin Brake Systems, a joint venture between Autoliv and Nissin Kogyo, started operations on April 1, 2016. With Autoliv being the world's largest automotive safety supplier and Nissin Kogyo being a leading supplier of high-performance brake systems, it is only natural that the two would join together to develop and produce brake control and brake actuation systems for the worldwide vehicle market. Determined to be a market leader, the company currently provides brake control and actuation systems for Ford, General Motors, Honda, Mitsubishi, Toyota, and more.

Autoliv Nissin is headquartered in Yokohama, Japan and has over 1,600 employees spread over 7 locations in Japan, China, Germany, and the United States. The company is in the process of constructing a new facility in Findlay, OH. Until it is completed, employees are sharing manufacturing space with Nissin Brake Ohio. In that facility, a coolant line runs between two machines and under diamond plate. A mat used to sit over the diamond plate, but conditions always became slippery when coolant dripped onto the floor. A program change was made to remove the excess coolant, but the company still wanted to install something to provide more slip resistance.

## THE SOLUTION

Autoliv Nissin explored several options to provide improved safety around the coolant line. One option was to have an epoxy and aluminum oxide grit coating applied to the existing diamond plate. While this solution is in other areas of the facility, it would require production in the area to be shut down for 8 hours, forcing overtime. SlipNOT® was able to offer another option that was comparable in price but with less downtime. Taking this into consideration, Autoliv Nissin chose to retrofit (2) 30 1/16" x 39 13/16" x 1/2" thick steel plates with SlipNOT® Grade 2 steel for slip resistance. The plates were also painted black to match the surrounding floor. Each plate also had two cutouts, allowing access to the coolant line below.

## THE IMPACT

Autoliv Nissin was able to install a SlipNOT® steel plates over often slippery diamond plate with minimal down time. The process engineer for the company had this to say about SlipNOT®: "The material is heavy duty and feels solid when walking on it, plus the friction it provides is exceptional. The plates installed relatively easy, the cutouts to lift them helped tremendously. I have had a few other engineers and management personnel interested in the SlipNOT® application for future improvements."