



# NORGREN®

## Indirect Gripper Case Study

# New Indirect Gripper Sensor increases precision and accuracy

**Location:** Detroit, MI

**Client:** Automotive Press Stamper

**Growth driver:** Slimmer sensor to fit into tight die spaces, with 2-wire capabilities

## Challenges

Part present sensing and double sheet detection is critical in the automotive metal stamping business. Having a reliable sensor is one challenge and could cost a manufacturer thousands in die damage and repair; adding the requirement of putting the sensor into a compact package to fit in tight die spaces is another.

For some stampers with a two wire press system, sensing double blanks was not possible. Depending on the material type, disc sensors were required - which takes up valuable die space. NAS recognized these problems and developed a new sensor to optimize our customer's presses.

## Solution

After working through the customer's challenges, the Norgren team worked together to refresh the customer's existing Indirect Gripper Sensor, making it more robust with new or upgraded features including:

- » 2- and 3-wire connection capabilities
- » Smaller sensor width (3/8" or 10mm): now able to fit into tighter die spaces without being damaged
- » Options for Regular, Flange, and Chisel jaw gripping styles
- » Provides greater accuracy for part present and or material thickness sensing – compared to other mechanical sensors – saving thousands of dollars in damages

