

# **Application Review**

### **COLLISION SENSOR FOR PLASMA CUTTING**

#### Situation.

A plasma cutting torch is attached to a height sensor or an arm via a collision protection device.

## Problem defined.

Collision sensors are used in plasma cutting to protect the costly torch head. Before the QuickSTOP collision sensor, collision sensors prevented damage to the torch head but vibrations generated by the plasma cutting process caused the torch head to oscillate, resulting in poor quality or 'wavy' cuts.

## Solution in reach.

Applied Robotics' QuickSTOP (AW Model) is a pneumatic collision sensor designed specifically for arc welding, laser and plasma cutting. The QuickSTOP design incorporates a non-compressive metal-to-metal seal that holds the unit rigid during the laser and plasma cutting process. Air pressure is adjustable to ensure correct breakaway resistance for each application. Spring collision sensors will eventually become loose, while the air regulated QuickSTOP will never weaken in strength.

Applied Robotics offers a family of Collision Sensors to accommodate different needs and applications. See your representative for further details. For more information on how our products can maximize your uptime, please call Applied Robotics at (800) 309-3475 or email us at info@arobotics.com visit us at www.appliedrobotics.com



