

# APPLICATION STORIES

**Customer:** A manufacturer of robotics for the auto industry

**Industry:** Automated Machinery

**SIC Code:** 3599

**Location:** Michigan

**Department:**

**Retrofit or OEM:** OEM

**Machinery Involved:** Robotic End Effectors

**Description of Environment:** Major auto maker needed a slide system that would tolerate tough foundry conditions. Heat, sand, and dirt were common.

**Description of Problem:** Not only was a linear bearing needed to withstand these tough environmental conditions but weight reduction in the slide design was also critical consideration.

**Solution:** Simplicity bearings and pillow blocks were specified for the new slide design. The lightweight aluminum shell reduced overall weight and the bearing also outperformed the linear ball bearing competitors. Shock loads were tolerated. High temperatures did not affect performance. The sand is kept out of the bearing by tough molythane seals. Smooth, quiet operation has resulted.

**Customer Reaction to Solution:** Customer is pleased with the performance and weight reduction gained by using Simplicity bearings. Shock loading, temperature extremes and tremendous contamination do not prevent Simplicity from providing long trouble free bearing life.

**Documented Cost Savings:**

**Simplicity Part Used:** FL16, FL24, FL32

**Qty of Bearings Used:**

**Date of Installation:** 1994

**Photos Available:** No

**Illustrations Available:** Yes

**Application Write Up Available:** Yes

