

APPLICATION STORIES

Customer:	A major manufacturer of automated welding systems for the auto industry
Industry:	Welding
SIC Code:	3548, 3544, 3549, 3559, 3699
Location:	Michigan and Europe
Department:	
Retrofit or OEM:	OEM
Machinery Involved:	Welding & Assembly
Description of Environment:	Auto assembly plant complete with welding spatter, dust, and water
Description of Problem:	Auto makers require a welding system that requires little or no maintenance. They need to design standard systems with no-maintenance linear slides (guide bar slides) that are both cost effective and reliable.
Solution:	Simplicity pillow blocks, bearings and non-hardened shafting 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 welding spatter is kept out of the bearing by tough molythane seals. Smooth, quiet, reliable operation has resulted.
Customer Reaction to Solution:	Customer is pleased with performance and weight reduction gained by using Simplicity bearings. Cost savings and long reliable bearing life are also attractive. Shock loading, temperature extremes and the tremendous contamination do not prevent Simplicity from providing long trouble free bearing life.
Documented Cost Savings:	
Simplicity Part Used:	P12, P16, P20, FL16, FL20
Qty of Bearings Used:	Thousands
Date of Installation:	1994
Photos Available:	No
Illustrations Available:	Yes
Application Write Up Available:	Yes

