CASE STUDY 20051231R

2,020 Gallons Less Stamping Fluid to Handle, What Would You Do?

How about less cleaning, less maintenance, less absorbent materials? How about more productivity….or cash! It is no secret that a myriad of expenses and effort are associated with the necessary application of stamping fluids. One company in California has learned the joy of reduction in those factors by integrating the uni-Roller® and the SPR 2000 Programmable Controller into their stamping and drawing operations for lubrication of their coil stock. They have achieved measurable results and happily share a few of them with us.

Application:	Drawing and deep drawing of steel (both galvanized and stainless), aluminum and zinc aluminum.
Previous Solution:	Drip system onto rags used to spread oil onto the coil stock.
Problem:	Using too much fluid. Fluid ending up on floors, all over machines and pooling on the parts. More fluid on the floors when parts placed into storage racks
Unist Solution:	uni-Roller Systems with SPR 2000 controllers 5 RL 34's 1 RL 23 1 RL 12
Cost of Equipment:	Total Cost: 55K Equipment cost – no installation cost. Company Installed their own equipment.

Results: Fluid Savings, Increased Production Rate, Decreased Production Cost

Fluid Savings – 3 fluid types of Fluid

Fluid #1 went from:	$8470.00 in 2004 to $2541.00 in 2005 10 drums to 3 drums 550 gallons to 165 gallons **$5929.00 in savings**
Fluid #2 went from:	$15,523.00 in 2004 to $9,935.00 in 2005 25 drums to 16 drums 1375 gallons to 400 gallons **$5,558.00 in savings** (This number should actually be less. Fluid #2 was also used in additional departments in 2005 vs. 2004, but there is no data available which calculates the extra usage. Fluid reduction and savings in this department were actually greater.)
Fluid #3 went from:	$15,394.00 in 2005 to $3078.00 in 2005 15 drums to 3 drums 825 gallons to 165 gallons **$12,316.00 in savings**

Totals:		
Previous Gallons	2,750	
Current Gallons	730	
Total Gallon Savings	**2,020**	**ANNUALLY!**
Previous Dollars	39,387.00	
Current Dollars	15,554.00	
Total Dollar Savings	**23,883.00**	**ANNUALLY!**

Other Non Measurable Savings Related to Fluid Reduction
No oil on the parts
No oil in the aisles
Less clean up on the presses
No more hand cleaning of parts
Less absorbent materials
Hidden costs of clean-up in other areas

Production Cost Reductions – 2 Parts Profiled

Part #1
Reduced Production Cost
From 3/1/05 to 10/20/05 = 520,000 pcs.
Cost Savings per part – $0.04 per part x 520,000 = $20,800.00

Increased Production Rate 54%
Previous Rate 250 pcs/hr
New Rate 385 pcs/hr

Part #2
Reduced Production Cost
650,000 parts run annually
Cost savings per part = $0.03 per part X 650,000 = 19,500.00

This saving is on two parts.

The total # of parts SKU's in the plant = about 12, 000 (not all are run in this department)

Total # of finished goods run in the plant annually - about 20 million.

If one penny per part were saved on ½ of the rest of the parts – the savings would be 100K, if 2 pennies, 200K, etc.

Only 1 penny savings on 25% of the parts pays for the entire project = the rest is extra profit!