

Application Profile

Subject: Improved Lift Cylinder Lubrication Application: Crown Filler

Manual Method: Crown (Cemco) and other fillers require external lubrication to prevent sticking lift cylinders caused by product spillage and caustic sanitation. In the past the lift cylinders were lubricated by means of a continuously running pump delivering oil through a spray nozzle that applied a heavy stream of oil during the run mode of the filler. This method resulted in considerable over lubrication of the cylinders and excess oil on the floor, which contributed to a very slippery condition. The reservoir was filled **during every shift!** Operation of the filler was 20 hours/day 6 days/week.

Automated Method: A leading soft drink bottler installed the Lincoln Orsco Model 170 system in early 2002. The Orsco system applies a very controlled spray to the front and rear of the lift cylinders and the pull down cams. An immediate reduction of oil usage and no excess oil on the floor was recognized. The filler has operated without lost production due to sticking lift cylinders.

Return on Investment

Annual oil cost 10 gallons/day @ \$3.50/Gallon		
\$3.50 X 10 X 300 days	=	\$10,500
Annual labor to fill reservoir @ 15 min/shift		
.5 hr/day X \$30/hr X 300 days	=	4,500
Annual labor to clean up excess oil		
2 hrs/week X \$30/hr X 50 weeks	=	3,000
TOTAL COST		\$17,500

Annual savings- oil cost (\$10,500 X 80%)	=	\$8,400
Annual savings- labor to fill (\$4,500 X 50%)	=	2,250
Annual savings- clean up (\$3,000 X 80%)	=	2,400
TOTAL SAVINGS		\$13,050

Investment (Orsco Model 170 w/3 nozzles) Installed \$6,000

INVESTMENT RETURNED IN 6 MONTHS



Crown Fillers require external oil lubrication for lift cylinders. Over lubrication results in high cost issues.



The Orsco Model 170 control unit provides precise metered lubrication to the area of need.



The Orsco nozzle directs the low pressure (5 psi) spray to the lift cylinders.