

Application Profile

Subject: Improved Chain Lubrication

Application: RA Jones Carton Erector

Manual Method: In the past the seven erector chains were manually lubricated weekly. The task was scheduled and performed by Maintenance Technicians but in some cases the task was not performed. Excessive chain wear resulted from this method due to the extended lubrication intervals.

Automated Method: A Lincoln Orsco oil spray system was installed to automatically lubricate the chain on a more frequent (daily) schedule. The Orsco system uses low-pressure air (five psi) to apply the small, metered amounts of oil while the erector is operating. This method resulted in the elimination of labor to lubricate the chains and extended chain life from one to two years.

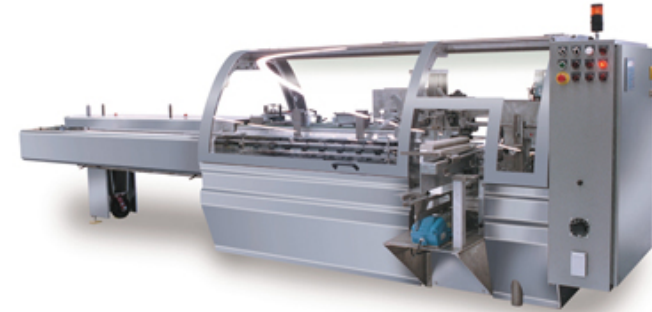
Return on Investment

Annual labor to lubricate chains (one half hr./week)		
(1/2 X \$25.00 X 50 weeks)	=	\$ 625
Annual replacement chain cost (seven chains)	=	\$3,600
Annual labor to replace chains		
(16 hr X \$35/hr)	=	\$ 560
TOTAL COST	=	\$4,785

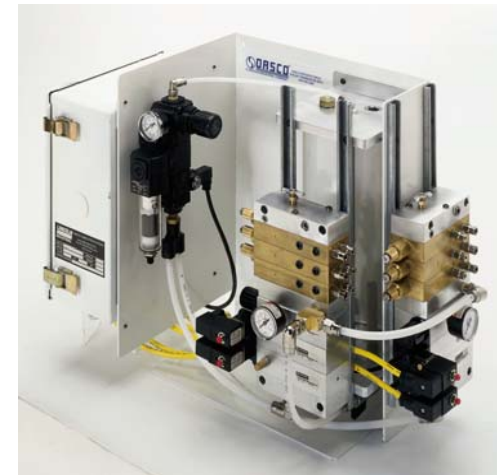
Annual savings - Labor to lubricate		
(\$625 X 90%)	=	\$ 562
Annual savings - Chain replacement		
(\$3,600 X 50%)	=	\$1,800
Annual savings - Chain replacement labor		
(\$560 X 50%)	=	\$ 280
TOTAL SAVINGS	=	\$2,642

Investment - Lincoln Orsco model		
170 system (Installed)	=	\$2,500

INVESTMENT RETURNED IN 12 MONTHS



Jones erectors are used to assemble food-packaging cartons from flat stock, and then feed the carton to a packer that inserts the wrapped food product. Maintenance requirements include weekly chain lubrication. Over lubrication creates housekeeping issues. Reduced chain life results from long intervals between oil applications.



The Orsco model 170 system provides positive lubrication to seven chains. The erector PC unit monitors system operation. Maximum chain life is insured by small-metered amounts of oil lubrication.