

RETURN ON INVESTMENT Auto Grease Systems

Retrieve lost profits with automated grease lubrication

JAX and XACT supply turn-key solutions to your grease lubrication needs. By precisely applying the proper lubricant with the correct quantity, you will experience minimal downtime, saving both time and money



MODULAR GREASE PACKAGE



Grease lubrication is a monotonous, resource-hungry task without the aid of automated grease systems. There are now many modular approaches to automated grease lubrication that allow solutions to be implemented quite simply.

Once you have established the number of bearing points and the required amount of grease per point, we can assemble a small modular grease lubrication package. These packages involve a pressurized reservoir, some solenoid valves, a timing device, electrical input, air input, some simple spring-return pneumatic piston pumps and your lube lines running out to the bearings. We put these packages together using stocked components and an enclosure of your choice. This makes a tidy, wall-mountable solution that is inexpensive and reliable. The units are adjustable by pump volume and cycle frequency. A simple programmable relay cube can be installed for more in-depth "real-time" controls.

Our experience has been primarily in food-processing and packaging machines which are exposed to the most extreme conditions and run almost continuously. These machines typically include issues such as moving blades, frequent wash-down, running at 110% capacity, and never stopping unless there is a failure. This is where automated grease lubrication pays itself back in no time!

When a bearing fails, the system goes down. The best team of maintenance techs could fix the issue in 1 to 3 hours, if they have the part in stock and have fixed the problem before. Consider the cost of the failed bearing (pending no shaft issues when it died), the two or three techs, the lost production and potential product sales, and weigh that against the cost of an automated grease solution. You will see an ROI of under one year. In the pork processing industry, we have seen a customer go from losing on average three bearings a month to one bearing every three months. It is not the bearing cost that hurts a business, but rather having to come up with excuses as to why product is not being shipped.

Food Packaging Operation - 36 Bearings - Tray Sealing Machine				
		Current Costs	NEW Costs	
Mfg. sugg lube volume (\$6 per lube)	(Six shots of grease once a week)	\$168.48	\$168.48	(0.012 cubic inches every 8 hours
Equipment purchase price	Grease gun	\$15.00	\$8925.00	Xact auto grease lube system
Man hours (\$16/hour)	Manual lubrication of points	\$832.00	\$288.00	Install (6 hrs) - Maintain 1 hr/month
Failure	Bearing cost \$160 @1 every 3 months	\$480.00	\$160.00	Bearing Cost (\$160) @ 1/year
Repair	Two hours to replace each bearing	\$96.00	\$32.00	Two hours to replace each bearing
Downtime	Production loss (100/hr)	\$600.00	\$200.00	Production loss (100/hr)
Annual cost of operation		\$2191.48	\$7773.48	
Return on automatic lube investment	Year one		\$-5582.00	
	Year two and beyond		\$1631.00	