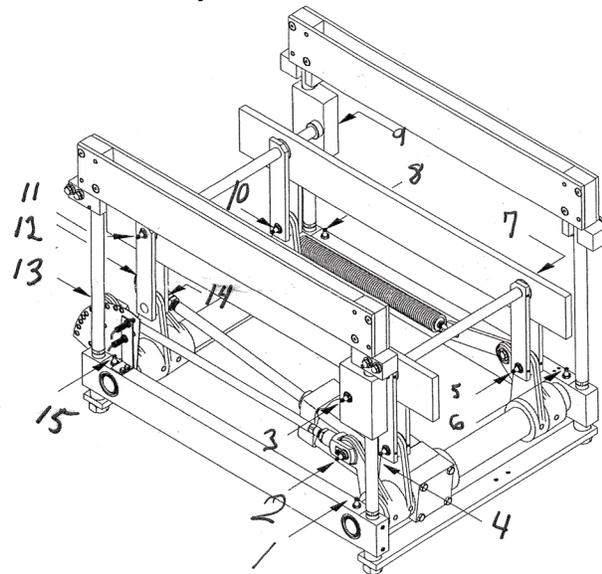# Tiromat Thermoforming Machines

## APPLICATION

A major pitfall of manual lubrication is the frequency at which it occurs. Every good intention is placed on routine lubrication and consistent volumes, yet factors such as production schedules and other maintenance requirements will not allow absolute perfection.

Xact Fluid Solutions has developed a precision automated grease lubrication package specifically for Tiromat Thermoforming machines. This package addresses each lubrication point with a dedicated positive displacement micro pump. Each pump is independently adjustable for grease volume, yet share the same grease supply inlet and may draw lubricant from a single centralized reservoir. The entire pump manifold is frequency controlled by a solid state timer which ties into the machine controls to lubricate only when the machine is running.

The bulk of the grease lubrication points reside on the two outboard cradle assemblies. Each cradle requires lubrication at 15 points. Points 7,8,9,10 are often overlooked due to limited access and point 9 specifically can only be reached during machine assembly or HACCP teardowns.



Outside of these two cradles (30pts), there are three addition grease lubrication points. Xact supplies the package with 34 pumps (one spare pump), timing device, reservoir, bulkhead fittings, Zerk replacement fittings, and all associated tubing. The base package is designed to install in the existing controls cabinet in the lower left hand corner. Other package options available upon request.

## Performance Features:
- Concise interval automated lubrication
- Centralized lubricant reservoir
- Lube volume adjustments for each point
- Pump NLGI 2 grease at 35°F (1°C)
- Quick install one way push-in fittings
- High pressure Poly Tubing
- 100 Million cycle component life

## Performance Benefits:
- Extended bearing life
- Reduction in machine downtime
- Predictive maintenance scheduling
- Reduction in annual lubricant use
- Return on investment is < 1 year
- Frees personnel for other tasks

**XACT**
**When you only get one shot**