

# GRAPHOIDAL

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## Multi-Cycle Lubrication Control Centre

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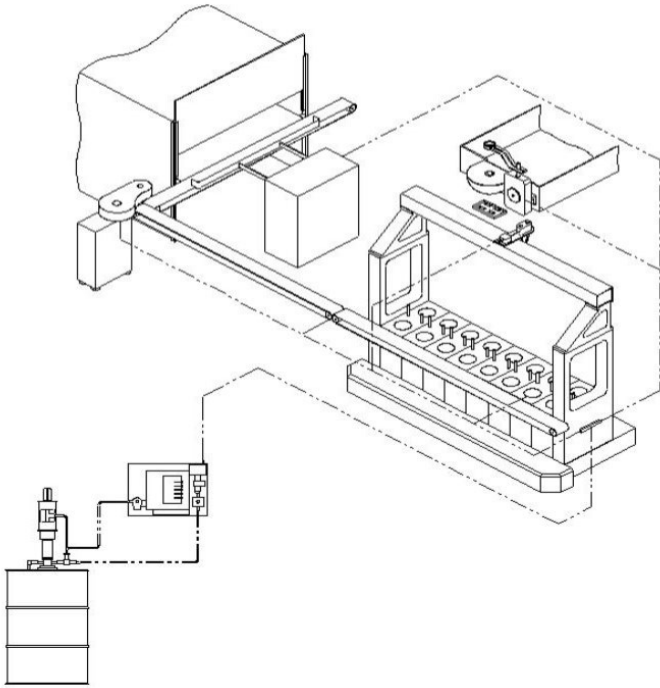
*A forming machine lubrication control centre which offers up to 18 separately timed lubrication outputs to optimise mechanism lubrication and oil consumption by zoning the IS Machine and lubricating each zone on a different time period from only one oil tank and pump.*

*From a single point, the system provides multiple lubricant outputs/zones, supplying oil to different groups of mechanisms, with independent cycle times for each output.*

*This enables differing cycle time settings for different mechanisms such as section mounted , plunger , the feeder, the shear, the machine conveyor and ware handling elements of the forming area.*

- *Independent digital timer control per zone/output.*
- *Reduced oil consumption.*
- *Alarm monitoring of each zone/output.*
- *Online display of zone/output lubrication cycles.*
- *Digital flow metering for oil consumption analysis (Optional)*



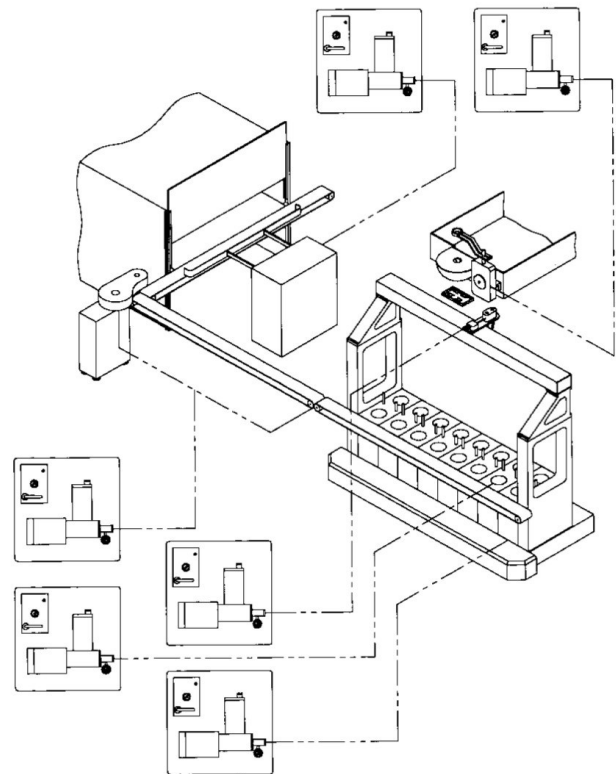


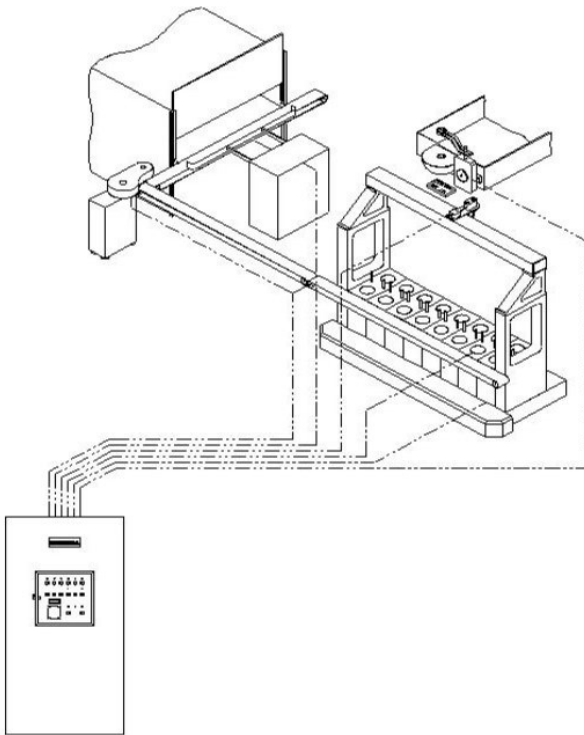
## **Single Pump Configuration**

- *Lubricates all areas of the machine on the same time cycle regardless of requirements.*
- *High Oil Consumption.*
- *High operating costs.*

## **Multiple Pump Configuration**

- *Feeds one mechanism per lubrication system.*
- *Multiple pumps needed.*
- *High risk attached, potentially resulting in lost production.*
- *High maintenance cost.*
- *Loss of floor space.*





- By splitting up the IS Machine into individual zones, it meets the true lubrication requirements of mechanisms.
- Each zone is lubricated to its optimum cycle.
- Reductions in lubricant consumption of over 50% have been achieved.
- Extensive alarm functions.

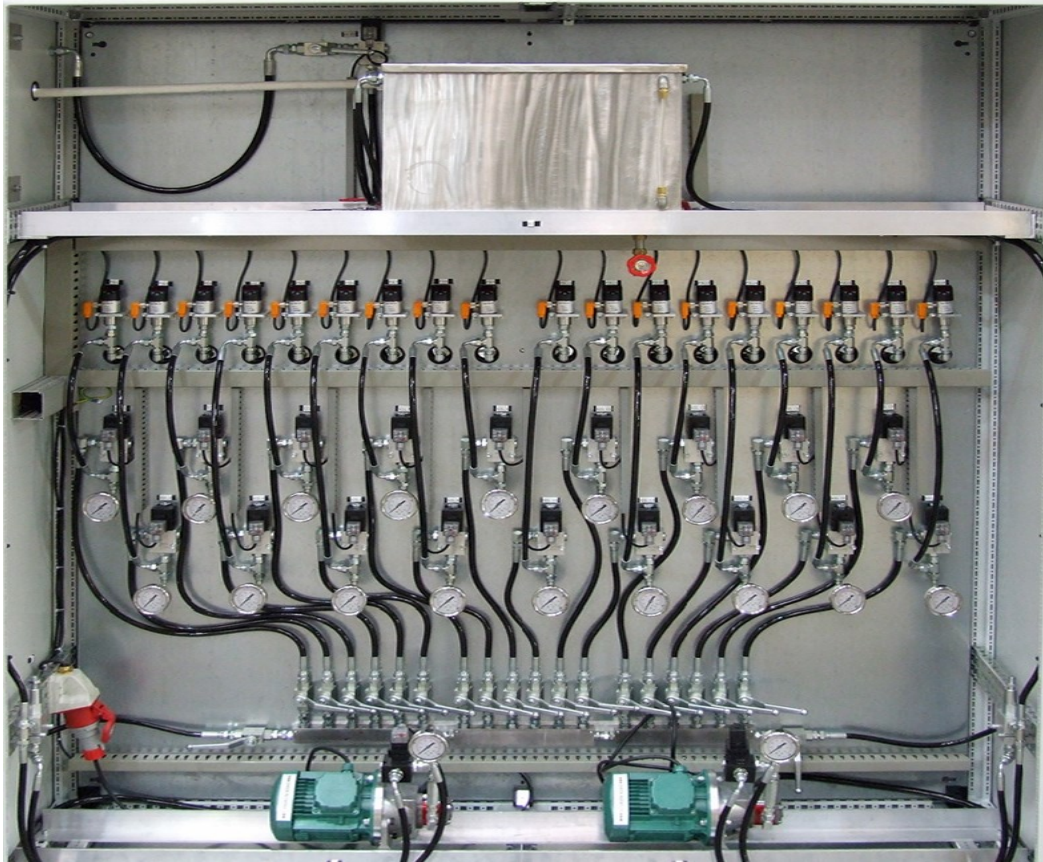
## Typical Oil Consumption of Graphoidal Multi Zone Lubrication System vs a Single Pump Traditional System

	Standard Single Pump System	Graphoidal System
Total number of injectors	775	775
Volume of oil per operation/injector	0.131 cc's	0.131 cc's
Minutes between lubrication cycles	12	Variable by zone
Total litres of oil used per hour	0.51	0.22
Total litres per 24 hours	12.18	5.33
Total litres per week	85.28	37.32
Total litres per year	4,446.80	1,946.09

***Oil Consumption is Reduced by:***  
***2,500 Litres per Year***

# Independently Alarmed Lubrication Zones

**GRAPHOIDAL**  
www.graphoidal.com



## *Multi Lubrication Centre Options*



*Additional oil tank for a second oil type.*



*Auto fill feature for  
automatic oil top  
up.*

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