

# Lubrication

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## Preventative Maintenance

1. Start out by oiling the entire machine. The machine has been properly greased before leaving the Mereen-Johnson assembly floor. Do not regrease the motor bearings.
2. Set up a lubrication schedule. (See the schedule included in the manual.)
3. See the machine placard for specific location of oil cups and grease fittings.

1. Check and fill all drip type and inline air oilers.
2. Fill all oil cups.

*Every 400 hours of running time grease the machine. Do not overgrease.*

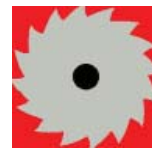
Excessive greasing will cause the bearings to run *hot*.

Each motor bearing requires approximately one (1) ounce of grease by volume, not weight, each greasing interval. Check your grease gun to see what is required for the grease gun to deliver this amount of grease.

Use only a premium grade Hi-Speed Extreme Pressure (EP) ball bearing grease. Refer to the following pages for recommendations.

1. Grease all arbor motor bearings.
2. Grease any arbor slip-off bearings.

## Oil Daily



**Calibrate your grease gun.**

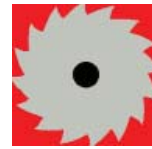
## Lubrication (Continued)

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3. Grease feed shaft and idle sheave bearings.
4. Grease all other grease fittings shown on the placard.

Wipe off all grease fittings before and after greasing.

Refer to the placard that is located on the machine for specification locations of oil cuts and grease fittings.



It is recommended that these greases or their equivalent be used on the Mereen-Johnson Machine Company Equipment.

### General Suggestions

Gopher Oil Company .....Molylub 126-EP, #1 or #2  
Continental Oil Company .....Conoco Superlub NLGI #2  
Shell Oil Company ..... Cyprina #3  
Socony Vacuum Oil Company .....Mobilux #2  
Standard Oil of California.....Calol  
The Texas Company..... Unitemp  
The Texas Company..... Hitetemp  
The Texas Company.....Regal Starfak AFB #2  
Sunoco.....Sunaplex 992 EP

### Greases

Use SAE #10 or #20 Non-Detergent High Quality Automotive oil for the oil cups.

### Oil Mist System

## Lubrication (Continued)

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Air mist lubricators require SAE #10 non-detergent high quality automotive oil. Machines that are operated in a cold climate (below 23°F), or in an unheated building, will require a lower temperature mist oil. Mereen-Johnson Machine Company has available Low Temperature Mist Oil “MJ-100.” “MJ-100” is not recommended for the Bijur Spin Rev<sup>®</sup> lubricators that lubricate the front motor bearings. For Bijur Spin Rev<sup>®</sup> equipped machine we recommend Mobil Mist Lub 24, MJ #616810.

### **Air Mist Lubricators**

The ball screw should be kept coated with a thin film of oil or light grease to provide satisfactory service under normal conditions. Most ball screw applications may use a light oil. Applications that have low or intermittent duty cycles may be greased once for life. Each application should be individually analyzed for lubrication selection. Standard Oil Waytax #95 and Mobil-Vactra #4 are common lubricants that have been used successfully in some applications.

### **Ball Bearing Screws & Preload Assemblies (if so equipped)**

## Lubrication (Continued)

# Varimot® Service Information Oil Suggestions

Ambient Air Temperature +5°F to +77°F. Gulf Oil  
 Company ..... Gulf EP S60  
 Chevron Oil Company .. Non-Leaded Gear Compound 150  
 American Oil Company ..... Spartan EP 150  
 Mobil Oil Company ..... Mobilgear 629  
 Shell Oil Company ..... Omala Oil 100  
 Texaco Oil Company ..... Meropa 150

Ambient Air Temperature +32°F to +104°F.  
 Gulf Oil Company ..... Gulf EP S100  
 Chevron Oil Company .. Non-Leaded Gear Compound 220  
 American Oil Company ..... Spartan EP 220  
 Mobil Oil Company ..... Mobilgear 630  
 Shell Oil Company ..... Omala Oil 220  
 Texaco Oil Company ..... Meropa 220

## Typical Specifications

| Grade Number  | 0                   | 1                   | 2                   |
|---|---------------------|---------------------|---------------------|
| Worked Penetration at 77°F,<br>60 Strokes                                 | 355 - 385           | 310 - 340           | 265 - 295           |
| Penetration after 100,000<br>Strokes, Max.                                | 390                 | 340                 | 295                 |
| Soap Type   | Aluminum<br>Complex | Aluminum<br>Complex | Aluminum<br>Complex |
| Drop Point °F   | 490                 | 500+                | 500+                |
| Water %   | 0                   | 0                   | 0                   |
| <u>Oxidation Stability</u><br>ASTM (D-942-50) Lbs.<br>Pressure Drop, Max. | 2                   | 2                   | 2                   |
| <u>Water Washout Test</u><br>ASTM (D-1264-53T)<br>@ 100°F, % Loss         | -                   | Nil                 | Nil                 |
| Corrosion Test,<br>ASTM D-174-607   | Pass                | Pass                | Pass                |
| Encor Corrosion Test  | Pass                | Pass                | Pass                |
| Timken O.K. Load, lbs., Min.  | 55                  | 55                  | 55                  |
| Color   | Gray                | Gray                | Gray                |

# Lubrication (Continued)

| Daily Schedule   |       | Week of |     |      |     |       |     |     |
|--|-------|---------|-----|------|-----|-------|-----|-----|
|  |       | Sun     | Mon | Tues | Wed | Thurs | Fri | Sat |
| Oil Mist Lubrication Generator<br>Approx. oil usage is 2 oz per 8 hours                                    | Sun   |         |     |      |     |       |     |     |
|  | Mon   |         |     |      |     |       |     |     |
|  | Tues  |         |     |      |     |       |     |     |
|  | Wed   |         |     |      |     |       |     |     |
|  | Thurs |         |     |      |     |       |     |     |
|  | Fri   |         |     |      |     |       |     |     |
|  | Sat   |         |     |      |     |       |     |     |
| Oil Cups   | Sun   |         |     |      |     |       |     |     |
|  | Mon   |         |     |      |     |       |     |     |
|  | Tues  |         |     |      |     |       |     |     |
|  | Wed   |         |     |      |     |       |     |     |
|  | Thurs |         |     |      |     |       |     |     |
|  | Fri   |         |     |      |     |       |     |     |
|  | Sat   |         |     |      |     |       |     |     |
| Arbor Motor Bearings (2)<br>Arbor Slip-off Bearings (2)<br>Feed Bed Bearings<br>Press Roll Adjusting Gears | Sun   |         |     |      |     |       |     |     |
|  | Mon   |         |     |      |     |       |     |     |
|  | Tues  |         |     |      |     |       |     |     |
|  | Wed   |         |     |      |     |       |     |     |
|  | Thurs |         |     |      |     |       |     |     |
|  | Fri   |         |     |      |     |       |     |     |
|  | Sat   |         |     |      |     |       |     |     |

Do not over grease!  
Grease every 400 running hours.

**Note:** Wipe off all grease fittings before and after greasing. 1) Check spray nozzle position weekly to make sure that the nozzles are spraying the oil on the chain vees and pins. 2) Slip-off bearing and motor bearings require approximately 1 ounce of grease (by volume), per greasing interval.