



Lubrication

- **MACHINE SLIDES**-Use a light oil such as sewing machine oil on all points where there is sliding contact. This should be done immediately after each cleanup. (We grease the slides at the factory to ensure the lubrication stays in place during shipping, but light oil will work fine once you begin using the machine.)
- **LEAD SCREW, TAILSTOCK SCREW, CROSSLIDE SCREW**-Sewing machine oil should be placed along all threads regularly. At the same time, check that the threads are free from any metal chips. Use an air hose or paint brush to keep them clean.
- **TAILSTOCK SPINDLE**-Wind out the spindle as far as it will go and lightly oil it with sewing machine oil.
- **HANDWHEEL**-A few drops of light oil behind the handwheel will reduce friction between the surfaces and make operation easier and smoother.
- **HEADSTOCK BEARINGS**-These bearings are lubricated at the factory for the lifetime of the machine and should not need further lubrication. DO NOT break the seals.
- **MOTOR**-Sealed ball bearings require no maintenance.

When NOT to lubricate certain surfaces

The mating surfaces of the arm, the column and the column cap on the Model 2000 mill are to be kept free from lubrication. Tightening the column bolt causes friction between these surfaces to resist movement of the arm during the forces and vibration of machining. If these smooth surfaces are lubricated, the arm or the column could move during machining even if the bolt is securely tightened. Clean these surfaces periodically with mild detergent or bathroom spray cleaner to keep a good "bite" between surfaces. The same goes for the surfaces between the "knuckle" and the ends of the swing arm. These surfaces are smooth enough that adjustment is easily accomplished with the nut loosened even without lubrication. They should be free of dirt and chips, but please resist your natural inclination to lubricate them, as they do their intended job better when dry.