

- loose-fitting shirts might possibly become entangled in rotating spindles or other kinds of moving machinery
- Jewelry, such as bracelets and rings, can catch on machine parts or stock and lead to serious injury by pulling a hand into the danger area.



Prevent contact:

- Firmly secured to the machine.
- Protect from falling objects: A small tool could easily become a projectile that could strike and injure someone.
- Create no new hazards: no shear points or jagged edges, or an unfinished surface which can cause a laceration
- Allow safe lubrication:



AR-G2 Couette Fixture

$$\Omega_{max} = 250 \text{ to } 300 \text{ rad/s}$$

Additional Concerns working with heated rotors specific to our lab experiments

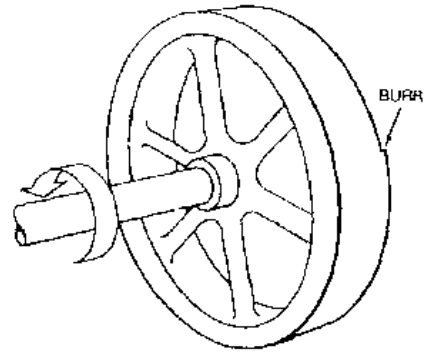
Heating inner rotor to 100 °C-150 °C: (Jai – creation of a SOP)

Prevent and Avoid:

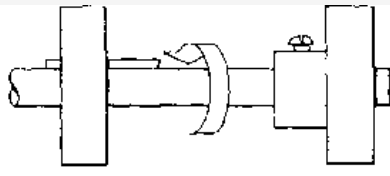
burns while attaching geometry, splashing of liquid while operation, accidental exposure



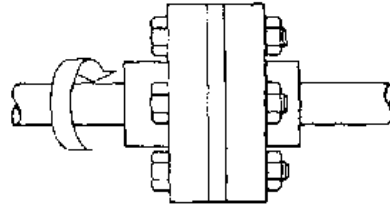
Safety Slides – Rotating Shafts



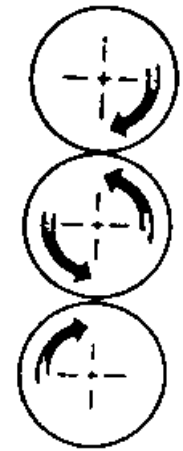
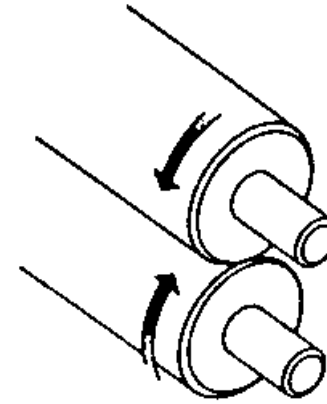
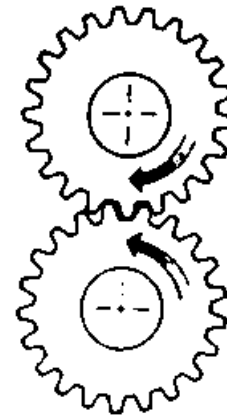
ROTATING PULLEY WITH SPOKES AND PROJECTING BURR ON FACE OF PULLEY



ROTATING SHAFT AND PULLEYS WITH PROJECTING KEY AND SET SCREW



ROTATING COUPLING WITH PROJECTING BOLT HEADS



Pinch Points in Rotating Equipment

Sharp Edges/Hazardous Projections

A Rotating motion can be dangerous:

- Even smooth, slowly rotating shafts can grip clothing, and through mere skin contact, force an arm or hand into a dangerous position.
- Collars, couplings, cams, clutches, flywheels, shaft ends, spindles, and horizontal or vertical shafting are examples of common hazardous rotating mechanisms. T
- Danger increases when bolts, nicks, abrasions and projecting keys or setscrews are exposed on rotating parts.