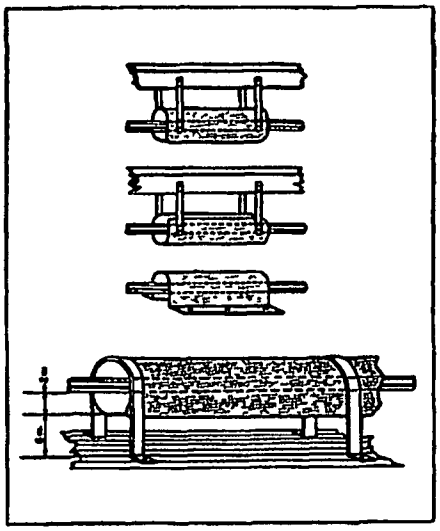


Fig. 22-9. Trough guards for shafting over or under bench machines.

Courtesy American Standards Association "Safety Code for Power Presses" B11 1.

such as those on power presses, on which the point of contact between the belt and the wheel is more than 7 ft above the floor or working platform, should be guarded by an enclosure at least to a point 7 ft above the floor or working platform If the top of such a pulley is 7 ft or less above the floor, the pulley should be enclosed (Fig 22-11) Expanded metal or mesh and 20 gauge sheet metal is usually used.

The distance between one pulley and another pulley or hanger, except in the case of tight and loose pulleys, should be slightly greater than the width of the belt. This provision prevents the belt from becoming wedged between the hanger and the pulley or between two pulleys if the belt should slip off one of the pulleys and further, prevents the belt from pulling down the line shafting

If it is impossible to space pulleys farther apart than the width of the belt, a guard will prevent the belt from becoming wedged if it should slip off the pulley. This guard may be a circular plate or flange 4 in. greater in diameter than the pulley, fastened to the side of the pulley on which there is insufficient clearance

Composition or laminated wood pulleys (unless constructed with waterproof glue) should not be used where the pulleys are continuously subjected to moisture. Pulleys subject to corrosive action should be constructed of corrosion-resistant materials, such as wood.

Pulleys should be inspected frequently for cracks in the arms and rims. If cracks are found or if a piece of the rim is broken off, the pulley should be removed from service immediately. Split pulleys should be inspected to determine that bolts holding the segments together are tight. Pulleys permanently out of service should be removed from the shaft and stored.

Like other power transmission equipment, pulleys should be kept in proper alignment, and those operating at rim speeds in

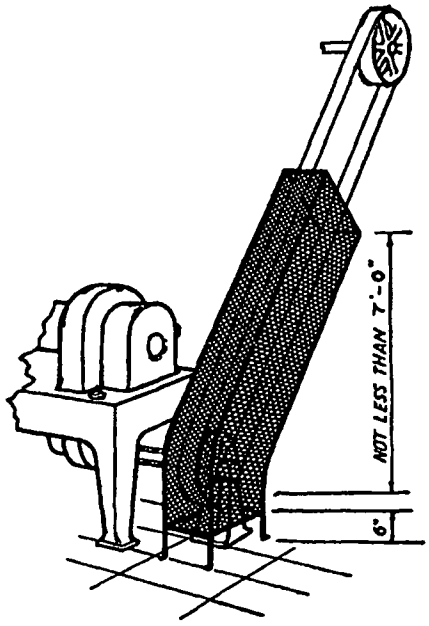


Fig. 22-10. Inclined and vertical belts should be guarded as shown. Where it is necessary to fasten the guard to the floor, 6-in. clearance should be allowed for easy cleaning of the floor. The guard supports should be securely fastened to the floor.