

GUARDING EQUIPMENT IN SELECTED INDUSTRIES



Fig. 26-32 Electrically interlocked screen guards prevent access to the portable let-off unit of a cutter while power is on. Note the interlock shown in the lower left.

Courtesy United States Rubber Company

is effective where variation in size or diameter of the fabric roll, as it is wound up on the reel, does not interfere with application of the photoelectric means of light

- 3 A pressure bar across the bite of the roll, but not effective where the increasing size of the fabric roll will interfere.
4. Elimination of center windups
5. Edge control, wrinkle-removing devices help to eliminate the need for adjustment while the rolls are in operation
6. Rolls installed as high as possible in new installations. Major changes should be made to raise the height of rolls in existing equipment
- 7 A pressure bar (instead of a safety cord) that will operate when struck with the leg or body should be encouraged
- 8 Separation of the rolls to avoid pinch

points, in the original design

- 9 Proper placement of foot switches. Such switches should be of the constant pressure type, permanently fastened down, and located at a point from which the operator cannot reach the danger point of the windup

Many of the hazards in connection with windups and letoffs are difficult to eliminate by engineering revision. However, many accidents can be prevented if operators are given complete information concerning those hazards. It is especially important to emphasize the danger of making safety controls inoperative. Other important points to stress in training operators are

- 1 Make certain that all safeguards are provided on the equipment and are in effective operating condition at all times. Test safety controls before operation
- 2 Start the fabric on the shell or drum by winding it on by hand before the power is turned on. Never permit anyone else to set this equipment in motion. Make certain that the equipment cannot be set in motion while the fabric is being threaded, spliced, or wrapped on the roll or shell
- 3 No matter what happens, never reach between the roll and the stock or fabric or drums while the equipment is in motion
- 4 Make certain that bars and shells are securely locked in position before the equipment is started and while the rolls are turning
- 5 If wrinkle-removing devices are not provided, stand away from the pinch point and use the palms of the hands flat on the fabric surface

In the reclaim-rubber industry, handling of refiner knives presents a hazard to employees. Use of holders in installing, removing, and grinding these knives will help prevent cuts (Fig. 26-33, on next page).

Tanning and Leather

Brushing machines The slot of the box-type brushing machine should be only wide enough to permit feeding of leather to the brushes. A trip bar or a motor switch mounted above the machine to permit quick stopping will decrease the possibility of injury if hands are drawn between brushes.

An emergency stop bar should extend