

MACHINE GUARDING

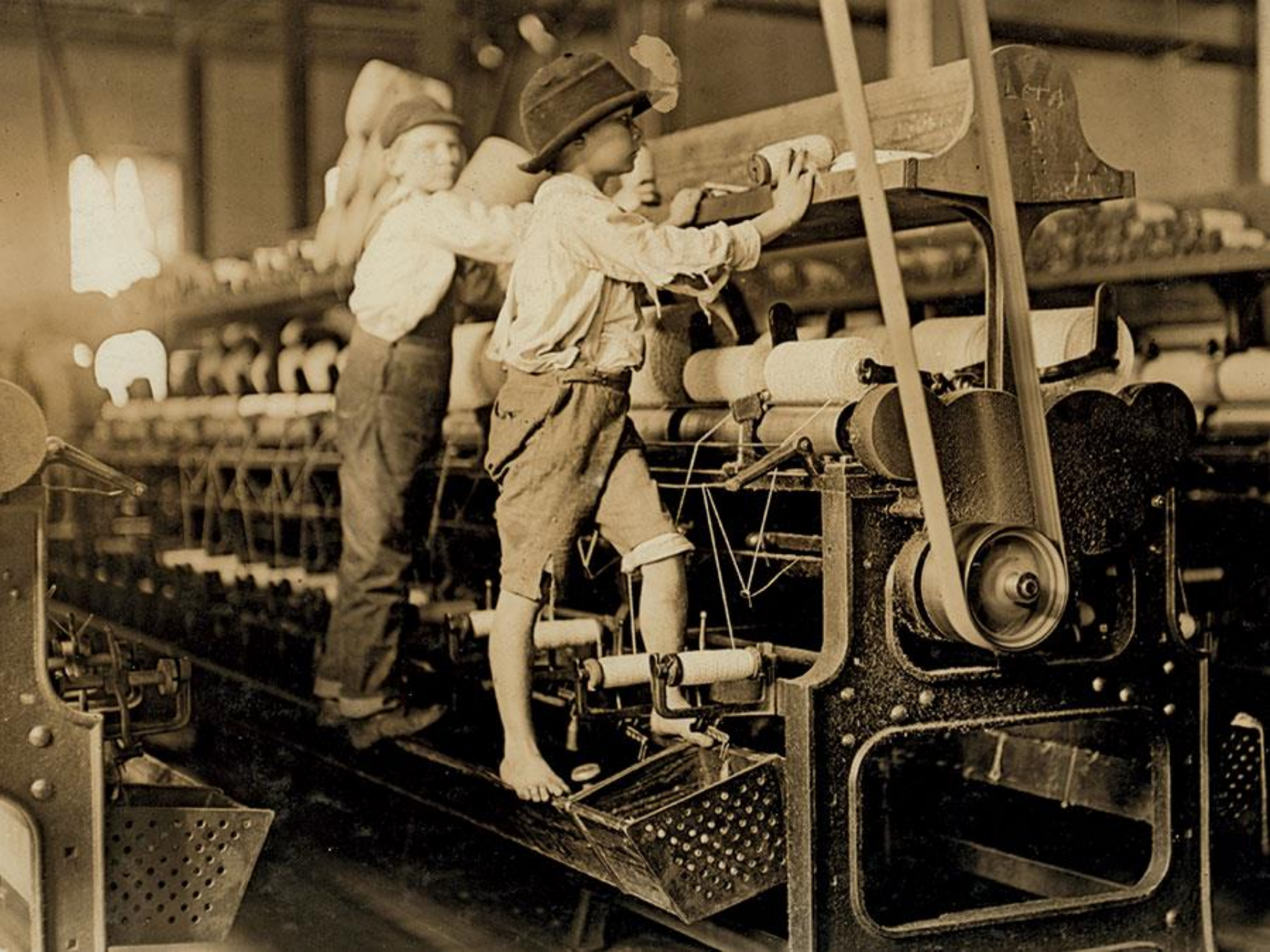
An overview by

Renée Onesti

Sr. Director of Engineering & Maintenance

Kent Elastomer Products, Inc.





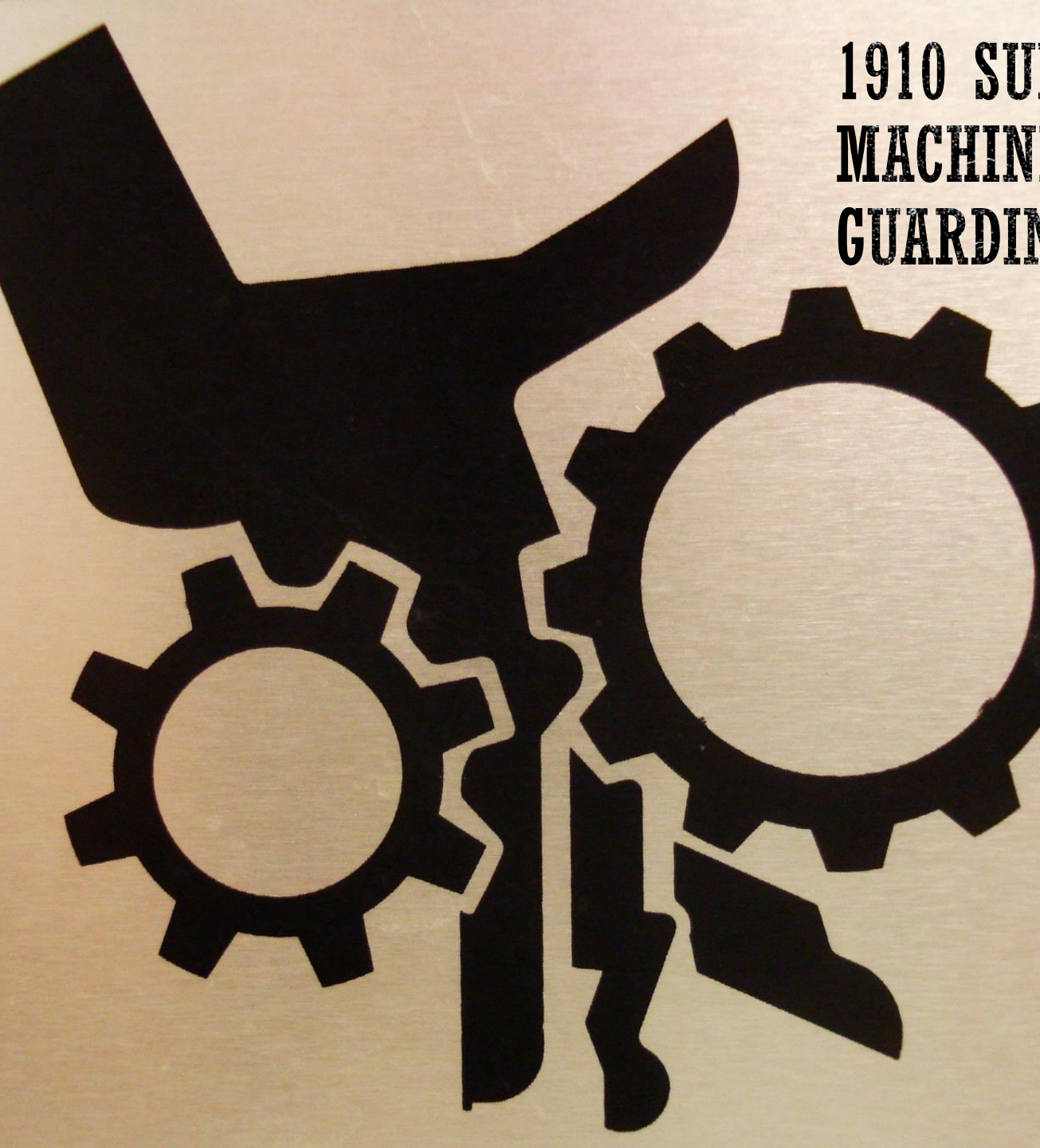


shutterstock.com • 1202737615

AGENDA

- What to guard
- OUAT
- Existing guards





1910 SUBPART 0 MACHINERY & MACHINE GUARDING

1910.211 - Definitions.

1910.212 - General
requirements for all
machines.

1910.213 - Woodworking
machinery requirements.

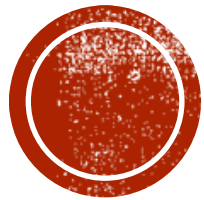
1910.214 - Cooperage
machinery. Reserved

1910.215 - Abrasive wheel
machinery.

1910.216 - Mills and
calenders in the rubber and
plastics industries.

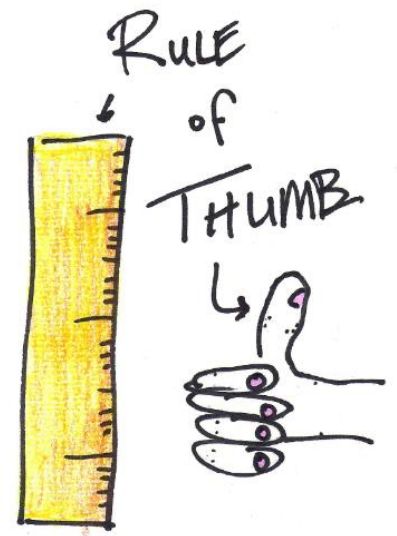
1910.217 - Mechanical
power presses.

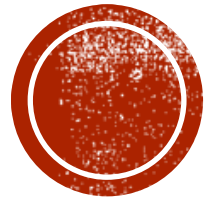




Any machine part, function or process which may cause injury must be safeguarded.

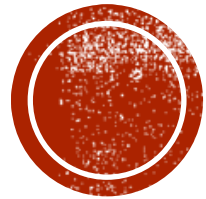
Rule of thumb!





**Fixed
Interlocked
Adjustable
Self-adjustable**

Guards should be in good working order all of the time!

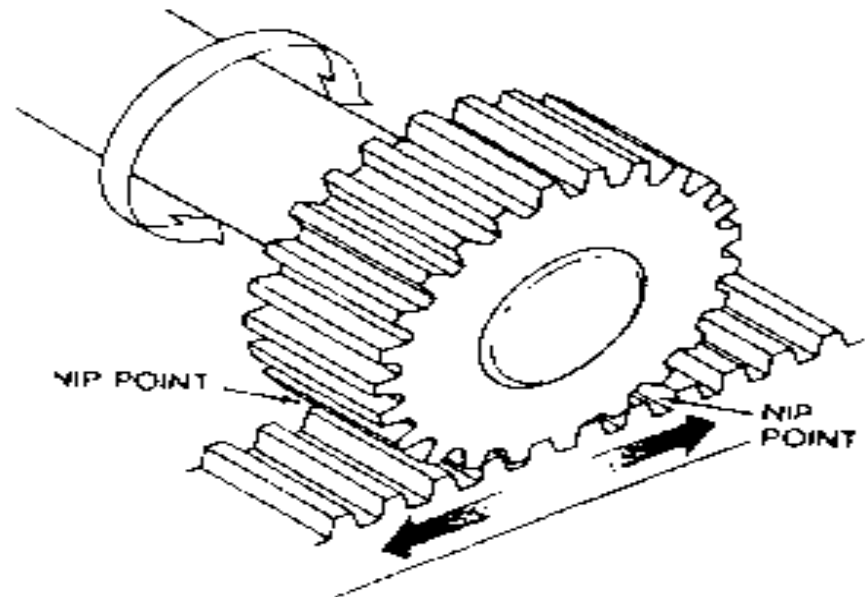
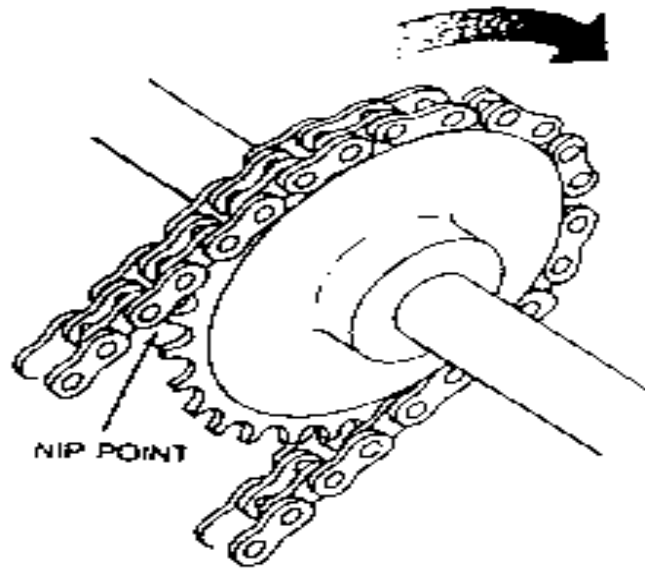
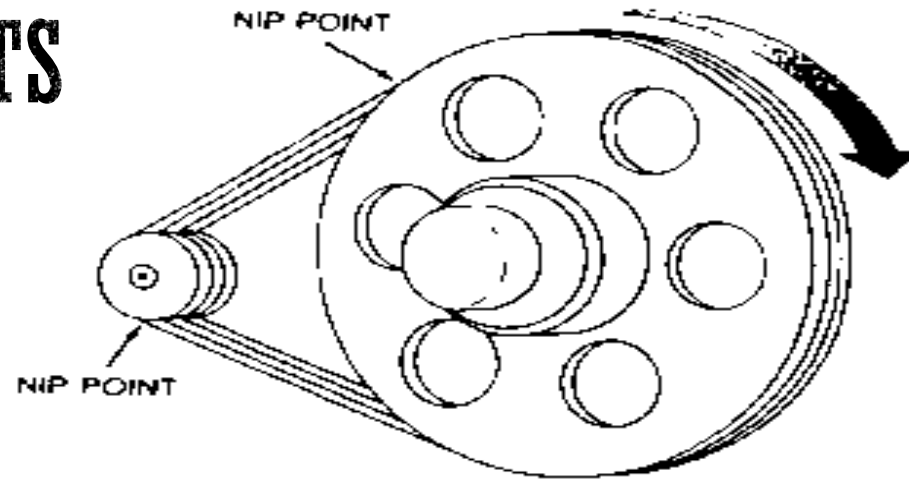


**THINK,
“WHAT MIGHT NEED
GUARDED?”**

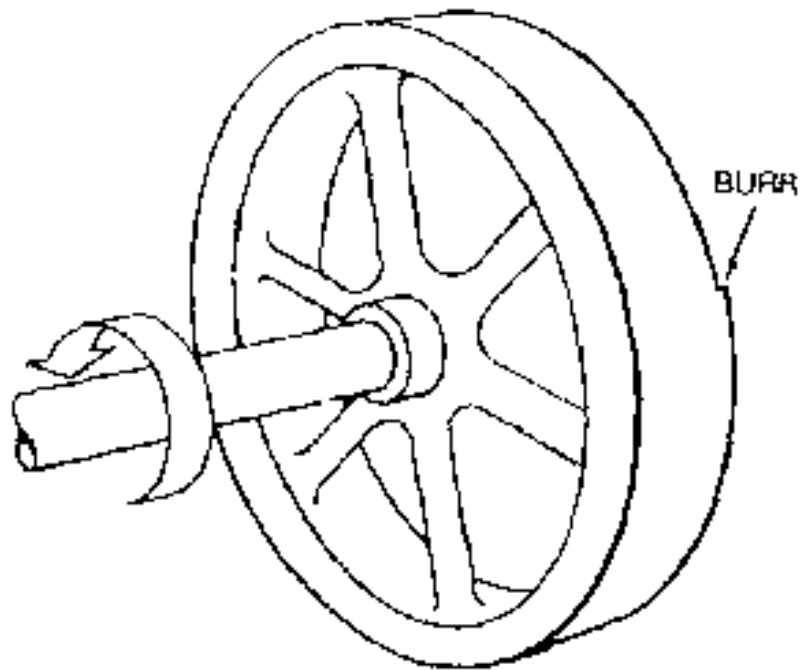
Don't just think...

“We don't have any machines. We don't need machine guarding.”

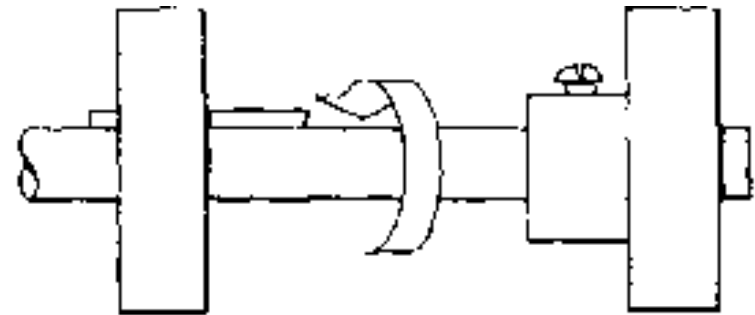
NIP POINTS



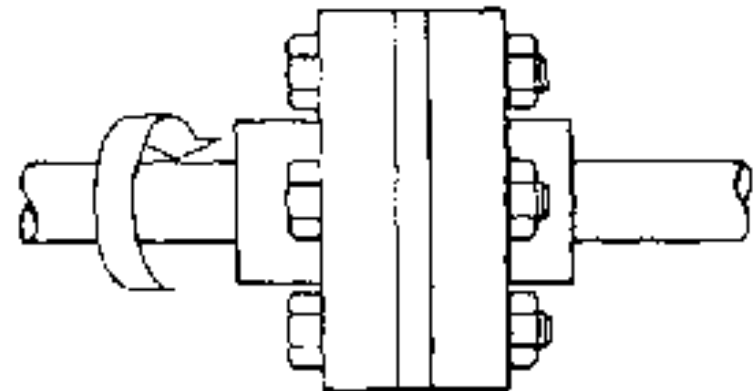
ROTATION



ROTATING PULLEY WITH SPOKES AND
PROJECTING BURR ON FACE OF PULLEY



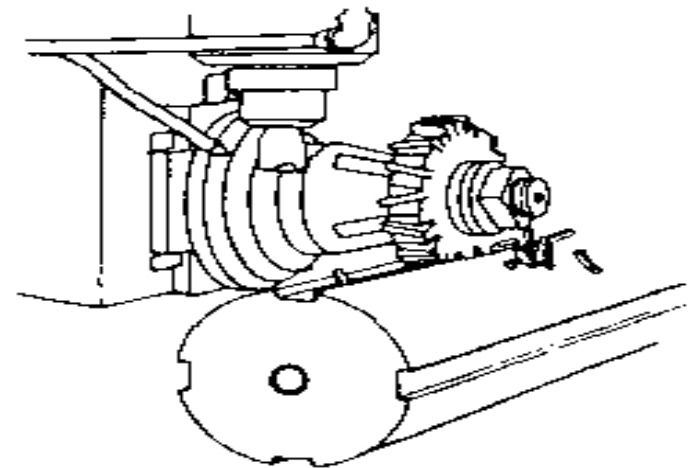
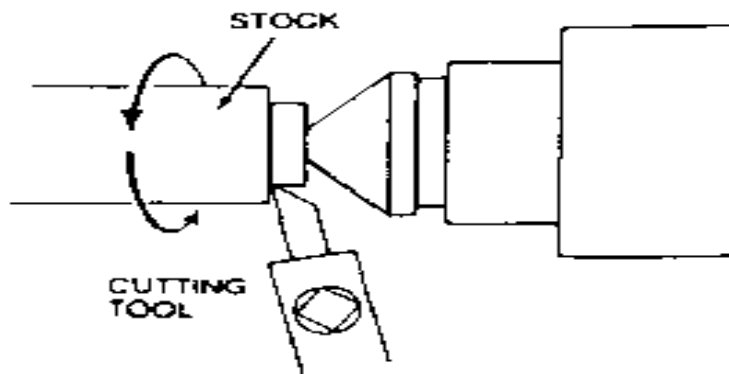
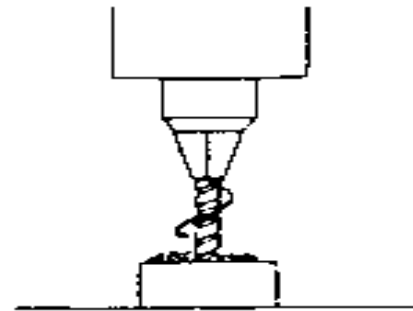
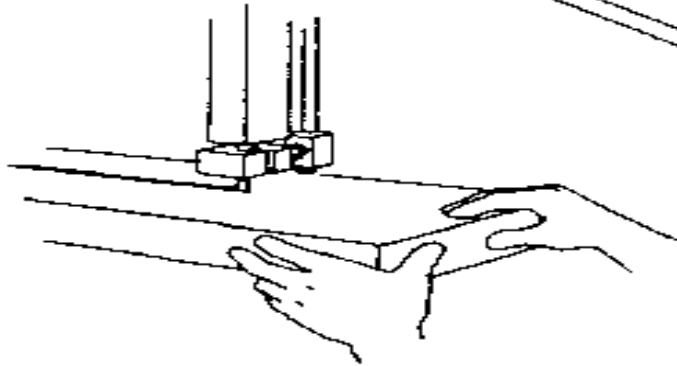
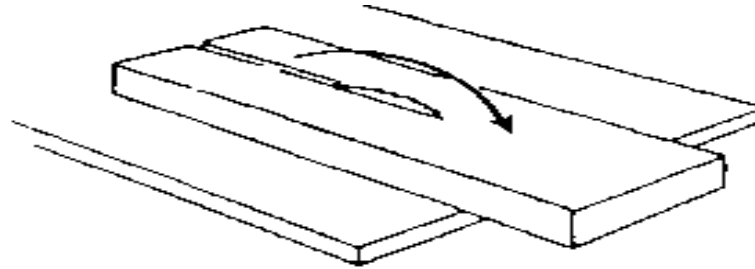
ROTATING SHAFT AND PULLEYS WITH
PROJECTING KEY AND SET SCREW



ROTATING COUPLING WITH
PROJECTING BOLT HEADS



CUTTING



OTHERS







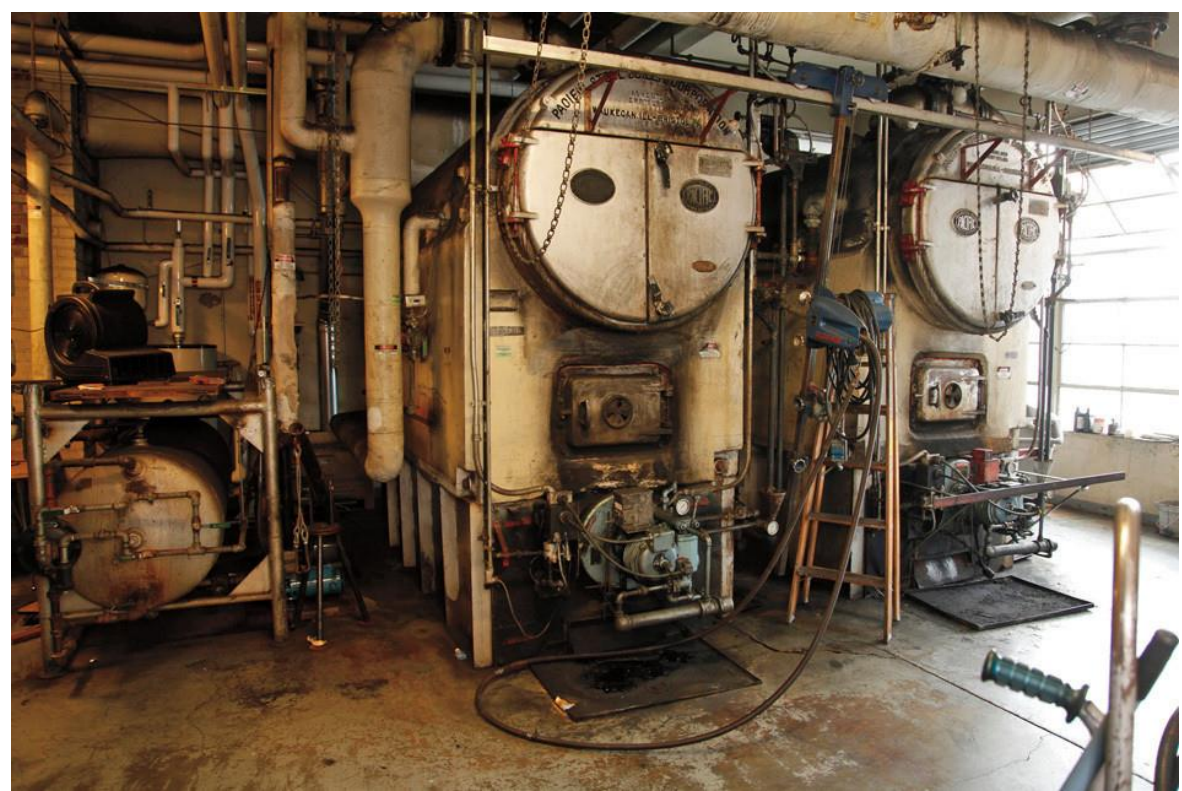
AND HERE'S WHERE
WE SLICE THE
POTATOES BEFORE
FREEZING THEM...

HEY, DON'T GET
TOO CLOSE. THOSE
BLADES ARE
SHARP.

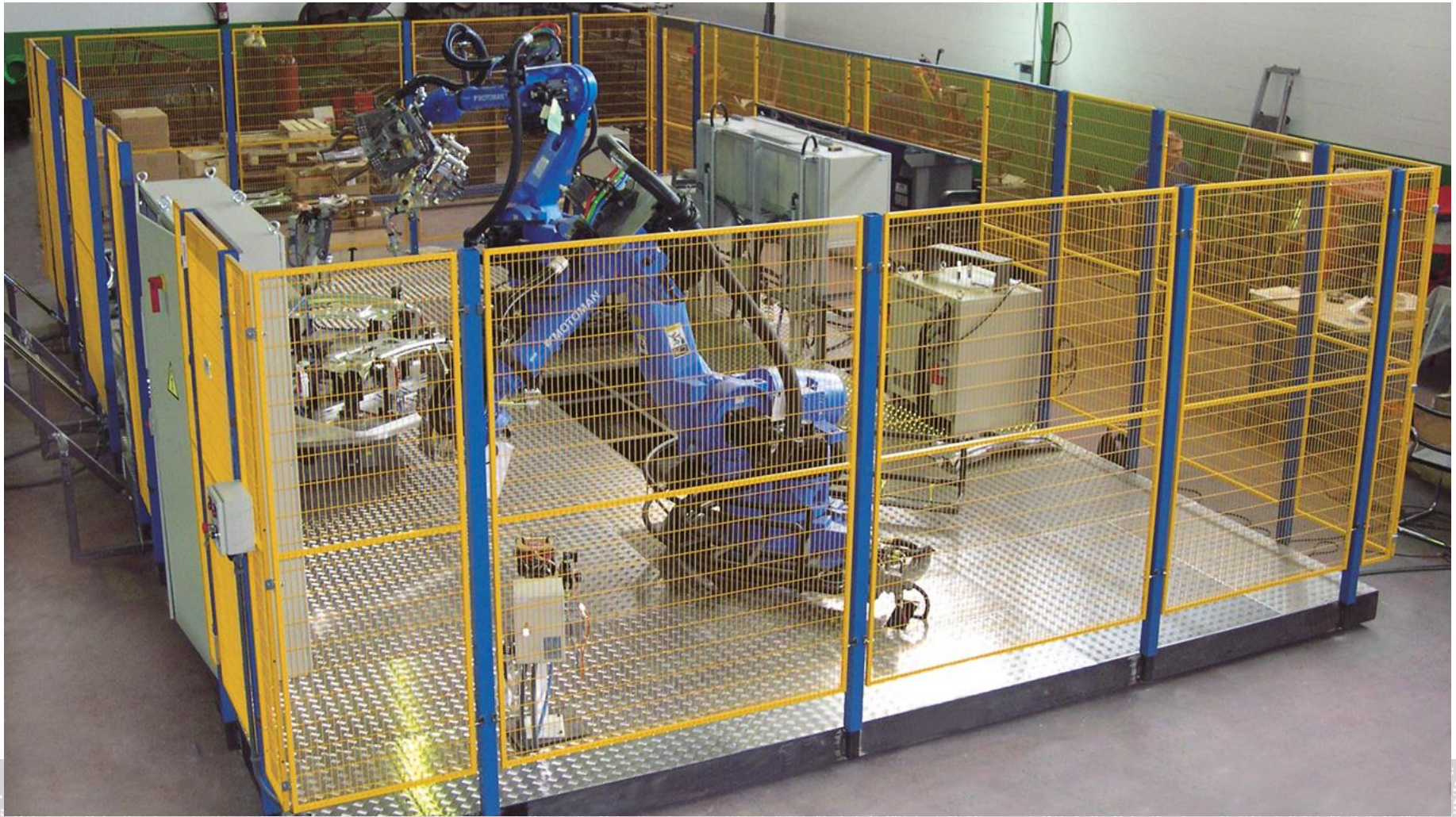


SECONDS LATER, "CURLY FRIES"
WERE INVENTED.

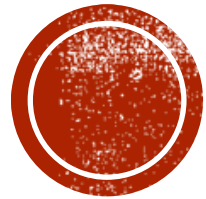








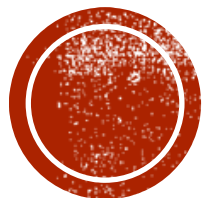
The robots are coming!
The robots are coming!



**OVER
UNDER
AROUND
THROUGH**



Check your machine guarding from all angles!





And they need to be in good condition!



THE BATTLE

