

Machine Safeguarding Equipment-specific Requirements

Department: Chemical and General Safety

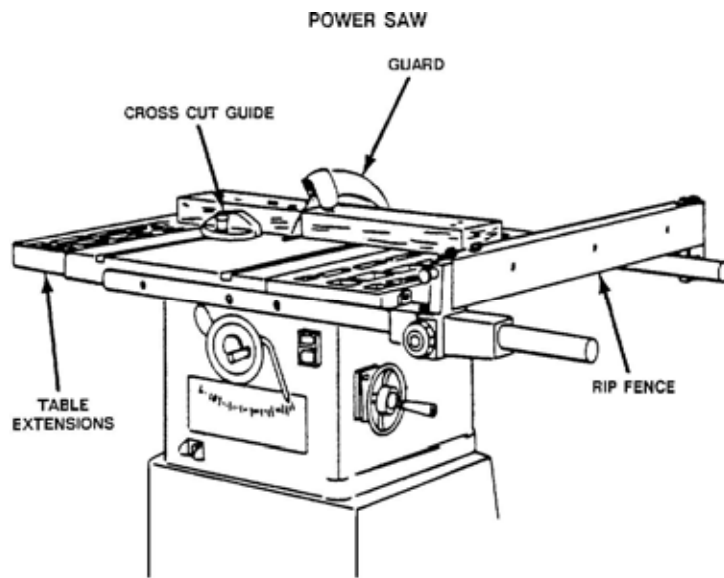
Program: Machine Safeguarding

Owner: Program Manager, Linda Knudsen

Authority: ES&H Manual, Chapter 39, Machine Safeguarding

The following information is provided to assist with safeguarding activities on common machine tools. It is not a replacement for a thorough equipment-specific safeguarding evaluation.¹

Power Saw

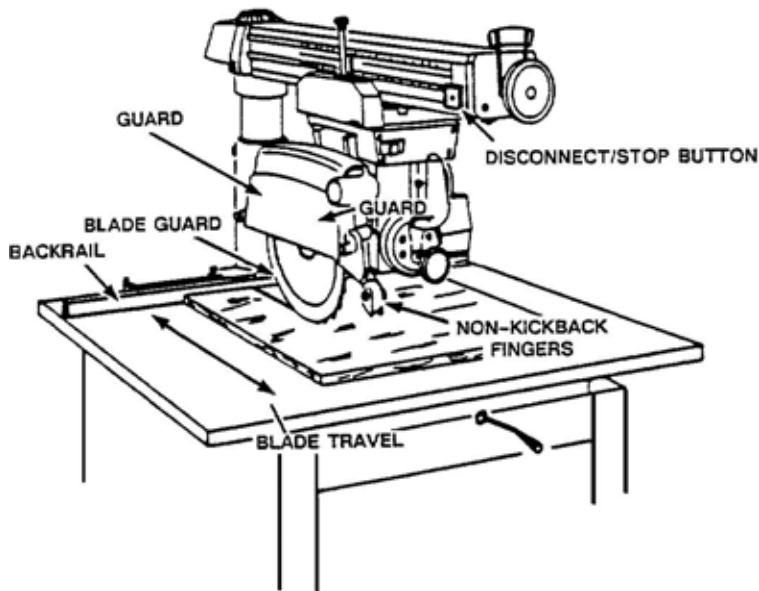


- Hood guard over blade
- Spreader fingers for rip sawing
- Electrical disconnect switch readily available and lockable
- Electrical disconnect properly identified and located on or near machine

¹ Content based on Federal OSHA machine guarding requirements and AMES Research ESH&A Program Manual Industrial/General Safety Program Section 5.7

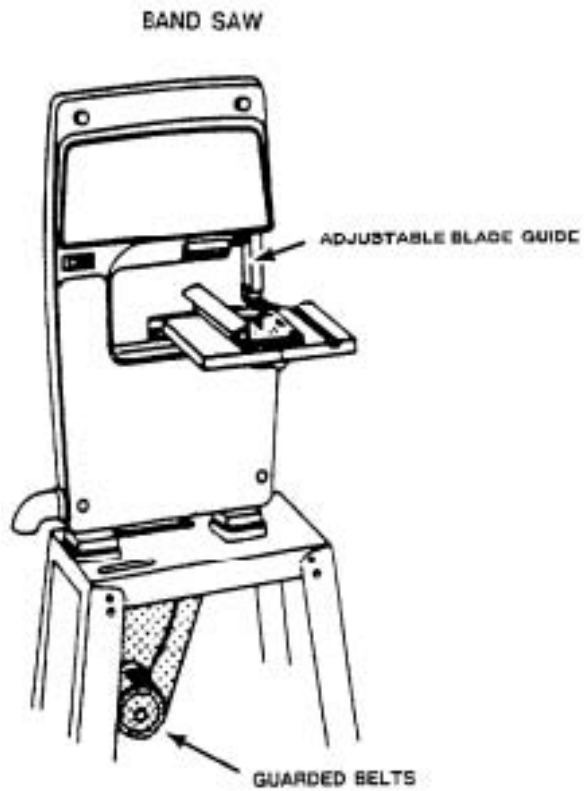
Radial Arm Saw

RADIAL ARM SAW



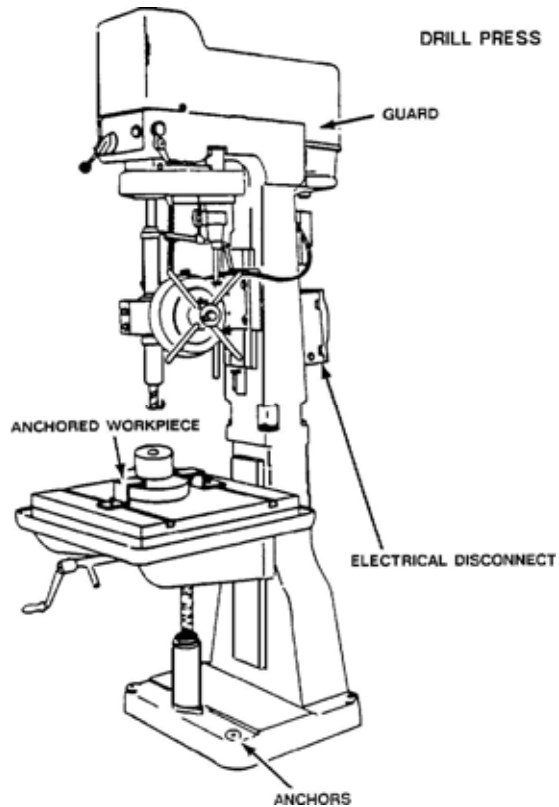
- Backrail in place to hold wood
- Hooded guard to cover top of blade
- Retractable guard on each side of saw blade
- Non-kickback fingers for use when ripping
- Stop to prevent forward travel past table edge
- Head returns automatically to rear when released by operator
- Electrical disconnect switch readily available and lockable
- Electrical disconnect properly identified and located on or near machine

Band Saw



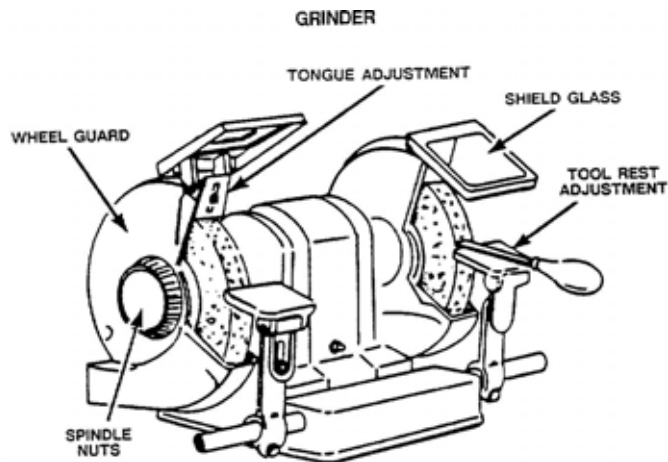
- All belts must be guarded
- Electrical disconnect properly identified and located on or near machine
- Disconnect switch must be lockable and properly identified
- Adjustable blade guard to enclose entire blade except for material being cut

Drill Press



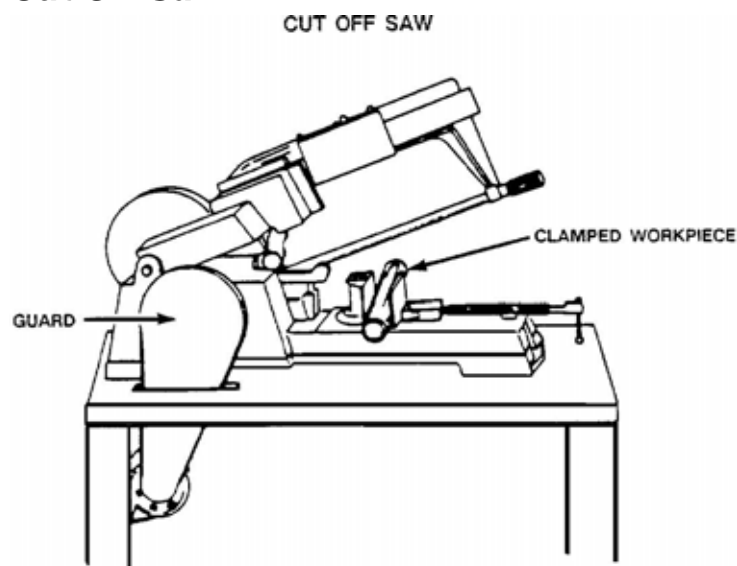
- Power transmission system guarded
- Electrical disconnect switch readily available and lockable
- Electrical disconnect properly identified and located on or near machine
- The work must be restrained or secured to prevent material rotation

Grinder



- Spindle nuts guarded
- Lockable disconnect switch
- Tongue guard not to exceed 1/4 inch gap
- Shield glass to be clean and free of cracks
- Wheel guard to cover 210 degrees of wheel
- Tool rest adjustment not to exceed 1/8 inch gap
- Wheel blotters to be used between wheel and flanges
- Flanges and /or special nut and flange combinations as designed for the grinder will be used
- Ring test required on wheels prior to mounting

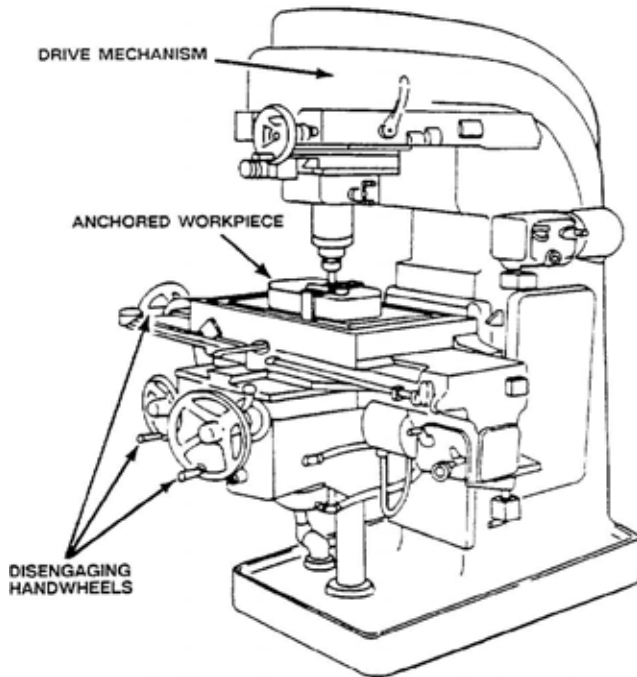
Cut Off Saw



- Stock fastening chuck secure
- Power transmission system guarded
- Unused portion of blade guarded

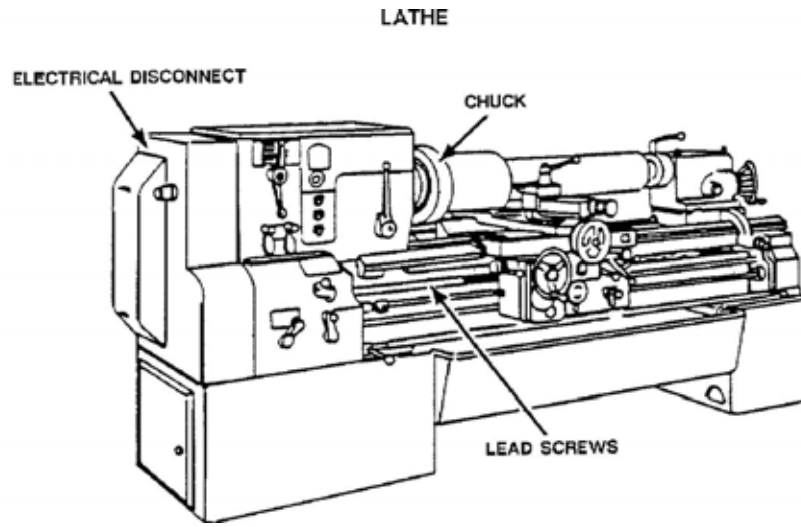
Vertical Milling Machine

VERTICAL MILLING MACHINE



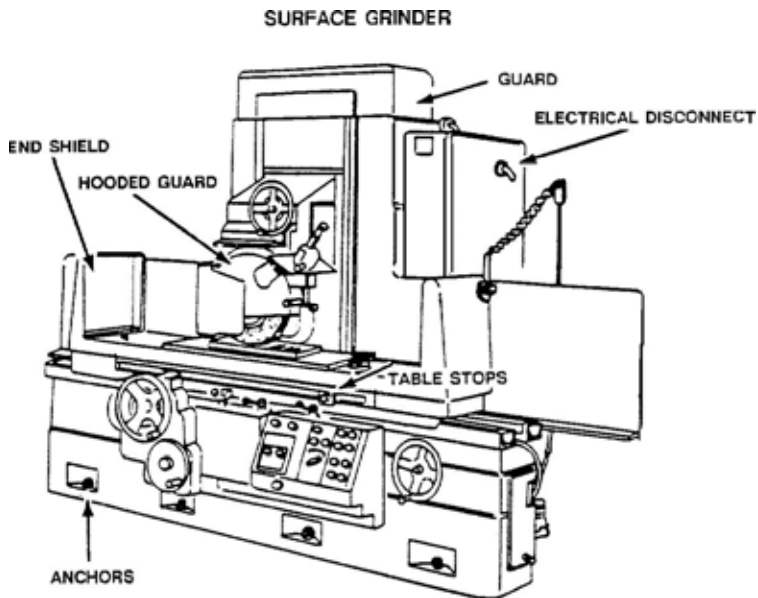
- Power transmission system guarded
- Electrical disconnect switch readily available and lockable
- Electrical disconnect properly identified and located on or near machine
- Feed rods and lead screws within envelope of machine
- No protrusions on chuck or faceplate beyond its periphery unless guarded

Lathe



- Power transmission system must be guarded
- Electrical disconnect switch must be readily available and lockable
- Electrical disconnect properly identified and located on or near machine
- Feed rods and lead screws of lathe must be guarded if they present a hazard
- No protrusions on chuck or faceplate beyond the periphery unless guarded

Surface Grinder



- Table shields in place
- Match spindle and wheel speeds
- Power transmission system guarded
- Wheel guarded covered a minimum of 210 degrees of wheel
- Electrical disconnect switch readily available and lockable
- Electrical disconnect properly identified and located on or near machine