



## Ohio Administrative Code Rule 4123:1-5-09 Woodworking machinery.

Effective: June 30, 2023

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(A) Reserved.

(B) Reserved.

(C) Jointers.

(1) Manual-feed jointers and planers - cutting head.

(a) Guarding - point of operation.

Manual-feed jointers and planers with horizontal head will be equipped with a cylindrical cutting head, the knife projection of which cannot exceed one-eighth inch beyond the cylindrical body of the head.

(b) Table openings.

The opening in the table will be as small as productive operation of the jointer permits. The clearance between the edge of the rear of the table and the cutter head cannot be more than one-eighth inch.

(c) Guards - automatic.

Manual-feed jointers and planers with horizontal cutting heads will have an automatic guard which will:

(i) Cover the section of the head on the working side of the fence.

(ii) Automatically adjust itself to recover the cutting head after the material has passed through.



(d) Guard - cutting head back of fence or gage.

Each manual-feed jointer with horizontal cutting head will have a guard which will cover the section of the head back of the gage or fence.

(2) Vertical head jointers.

Each wood jointer with vertical head will have either an exhaust hood or other guard so arranged as to guard completely the revolving head, except for a slot of such width as may be needed for the application of the material to be jointed.

(D) Planer, molder, sticker, and matcher.

(1) Guarding - cutting heads.

Each planer, molder, sticker, and matcher will have all cutting heads and saws, if used, covered by a metal guard. If such a guard is constructed of:

(a) Sheet metal - the material used will be not less than one-sixteenth inch in thickness.

(b) Cast iron - the material used will be not less than three-sixteenths inch in thickness.

(2) Guarding - where exhaust systems are used.

Where an exhaust system is used, the guards will form part or all of the exhaust hood and will be constructed of metal of a thickness not less than that specified in paragraph (D)(1)(a) or (D)(1)(b) of this rule.

(3) Guarding - feed rolls.

Power-driven feed rolls, when exposed to contact, will be guarded so as to prevent the hands of the operator from coming into contact with in-running rolls at any point.



(a) Sectional in-feed rolls.

Surfaces of planers used in sizing multiple pieces of material simultaneously will be provided with sectional in-feed rolls having sufficient yield in the construction of the sections to provide feeding contact pressure on the stock, over the permissible range of variation in stock thickness for which the machine was designed.

(b) Alternate method.

In lieu of such yielding sectional rolls, suitable section kickback finger devices will be provided at the in-feed end.

(E) Boring and mortising machines.

(1) Guarding.

(a) Mortising machines (except hollow chisel mortisers).

Mortising machines, except hollow chisel mortisers, will be provided with thumb stops at each side of the chisel or equivalent protection.

(b) Bits.

Bits on all automatic boring machines will be guarded at the points of operation.

(c) Chain mortiser.

The top of the cutting chain and driving mechanism will be guarded.

(d) Counterweight.

Counterweights exposed to contact will be guarded, or secured with safety chain or wire rope so the



counterweight will not descend to a level less than eight feet above the floor or working level, where employees perform their assigned duties or where employees pass through in the performance of their assigned duties.

(e) Universal joint.

Universal joints on spindles of boring machines will be completely enclosed in such a way as to prevent accidental contact by the operator.

(2) Chuck design.

Safety bit chucks with no projecting set screws will be used.

(F) Stationary sanding machines.

(1) Drum sanders.

Drum sanders will have a guard so arranged as to enclose the revolving drum, except such portion of the drum above the table (if table is used) as may be needed for the application of the material to be finished. Where an exhaust system is used, the hood of the exhaust system will be construed as comprising all, or part, of the guard.

(2) Disc sanders.

Disc sanders will have a guard so arranged to enclose the periphery and back of the revolving disc, except such portion of the face of the disc above the table (if table is used) as may be needed for the application of the material to be finished. Where an exhaust system is used, the hood of the exhaust system will be construed as comprising all, or part, of the guard.

(3) Belt sanders.

Belt sanders will have both pulleys guarded in such manner as to guard the points where the belt runs onto the pulleys. The edges of the unused run of the belt will be guarded.



(4) Feed rolls of self-feed sanding machines.

Power-driven feed rolls, when exposed to contact, will be guarded so as to prevent the hands of the operator from coming into contact with in-running rolls at any point.

(G) Wood shapers.

(1) Guarding.

(a) Cutting heads.

(i) The cutting heads of each wood shaper, hand-fed panel raiser or other similar machine, not automatically fed, will be guarded. The diameter of circular shaper guards will be not less than the greatest diameter of the cutter.

(ii) When single cutter knives in shaper heads are used, the shaper heads will be balanced.

(b) Alternate method.

A substantial jig, fixture, or template may be used which is designed to keep the hands of the operator out of the danger zone.

(2) Starting and stopping devices.

All shapers will be provided with a spindle starting and stopping device for each spindle.

(H) Tenoners.

Tenoners will have all cutting heads or saws guarded. An exhaust hood may comprise part or all of the guard. If such a guard is constructed of sheet metal, the material used will be not less than one-sixteenth inch in thickness, and if cast iron is used, it will be not less than three-sixteenths inch in thickness.



(I) Lathes.

Each profile and swing-head lathe will have the cutting head guarded. An exhaust hood may comprise all, or part, of the guard.

(J) Veneer machinery and equipment.

(1) Vats and soaking pits.

(a) Guarding.

Sides of vats and soaking pits will extend to a height of not less than thirty-six inches above the working floor level. When loading or unloading operations are performed from the sides and/or ends of vats and soaking pits, standard guard railing and toeboards will be installed.

(b) Walkways between sections.

Large vats and soaking pits divided into sections will be provided with substantial walkways between sections. Each walkway will be provided with a standard guard railing.

(2) Drag saws.

Drag saws will be so located as to give at least four feet clearance for passage when the saw is at extreme end of stroke or if such clearance is not obtainable, the saw and its driving mechanism will be guarded.

(3) Clippers and wringers.

(a) Clippers.

Veneer clippers will have automatic feed or will be provided with a guard when stock is manually fed or removed.



(b) Wringers.

In-running sides of veneer wringers will be guarded leaving only sufficient space to insert stock.

(K) Cooperage machinery.

(1) Bolt, stave and heading equalizers.

Each bolt, stave and heading equalizer will have the saws guarded except that portion immediately adjacent to the feeding device.

(2) Barrel stave saws.

Each machine of this type will have the saw and the revolving part to which the saw blade is bolted, guarded, except that part of the saw immediately adjacent to the feeding device.

(3) Heading, rip, flat-stave and head-rounders.

All machines coming under this heading will have the saws guarded.

(4) Stave and heading planers.

All cutting heads and knives of single and double planers will be guarded. An exhaust hood may comprise all or part of the guard.

(5) Stave jointing machines (wheel).

Machines for jointing staves will be guarded.

(6) Stave croziers.

The cutting heads will be guarded except that part which actually imbeds itself in the stock.



(7) Pail and barrel lathes.

The specifications of paragraph (I) of rule 4123:1-5-09 of the Administrative Code, Lathes, where applicable, govern the guarding of pail and barrel lathes.

(L) Miscellaneous woodworking machines.

(1) Combination or universal woodworking machines.

(a) Guarding.

Each point of operation will be guarded as required for such a tool in a separate machine.

(b) Stopping and starting devices.

Such machines will be provided with a separate stopping and starting device for each separate operation.

(2) Routers.

The pulleys, spindles, and cutting tools will be guarded. Turnplates, jigs, and fixtures which keep the operator's hands out of the danger zone may be provided as an alternative.

(3) Glue spreaders (roll type).

The feed rolls will be guarded. The bottom of the guard will be not more than three-eighths inch above a plane formed by the contact face of the feed roll where it contacts the stock.