

FACT SHEET

TENONERS

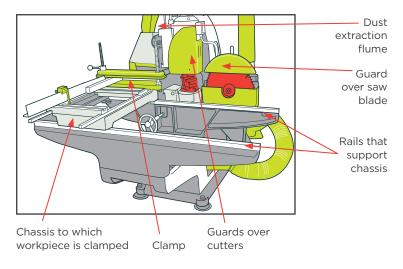
A tenon is the end of timber shaped to fit in a mortise and make a joint.

A traditional tenoner is a floor-mounted machine tool, with pairs of cutting heads to shape the tenon. The workpiece is securely clamped to a chassis on rails, and pushed by hand to carry the wood through the cutters.

Although guards leave cutters and the saw blade partially exposed, the operator's hands are firmly on the chassis on rails, avoiding contact with moving parts.

A more modern type of tenoner has a single cutting head that is programmed to follow a particular path to shape the tenon.

FIGURE 1: TENONER



HAZARDS:

- > Entrapment from contact with clamp
- > Contact with blade
- > Moving/turning timber
- > Noise
- > Dust
- > Slips, trips and falls
- > Contact with exposed blades and moving parts (during maintenance, cleaning & repairs)

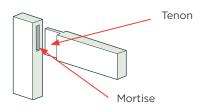
PPE:







FIGURE 2: HOW TENON FITS WITH MORTISE



TASK - SECURE THE WORKPIECE

Hazard

Entrapment from contact with clamp

Harm

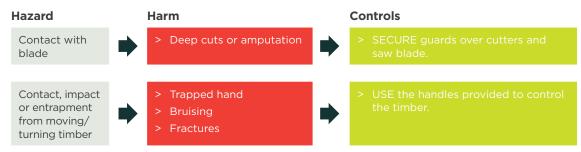
- > Trapped hand
- > Crush injuries
- > Bruising
- > Fractures

Controls

> ENSURE timber is securely clamped



TASK - PUSH TIMBER THROUGH CUTTERS

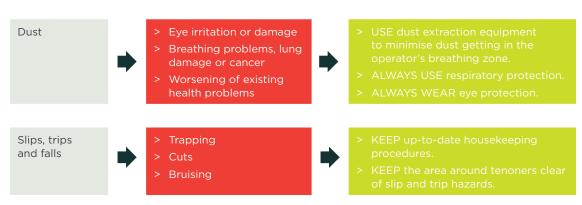


Timber may turn or move during contact with cutters or saw blade. A modern machine should have self-adjusting guards that lift as timber approaches the cutters and saw blade.

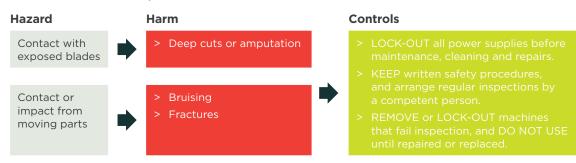
OTHER (NON-MECHANICAL) HAZARDS



A safe noise level over an eight hour day is 85db. A tenoner may exceed this noise intensity.



TASK - MAINTENANCE, CLEANING & REPAIRS



References, current standards and further information can be found on the Safe Use of Machinery project page at: www.worksafe.govt.nz

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