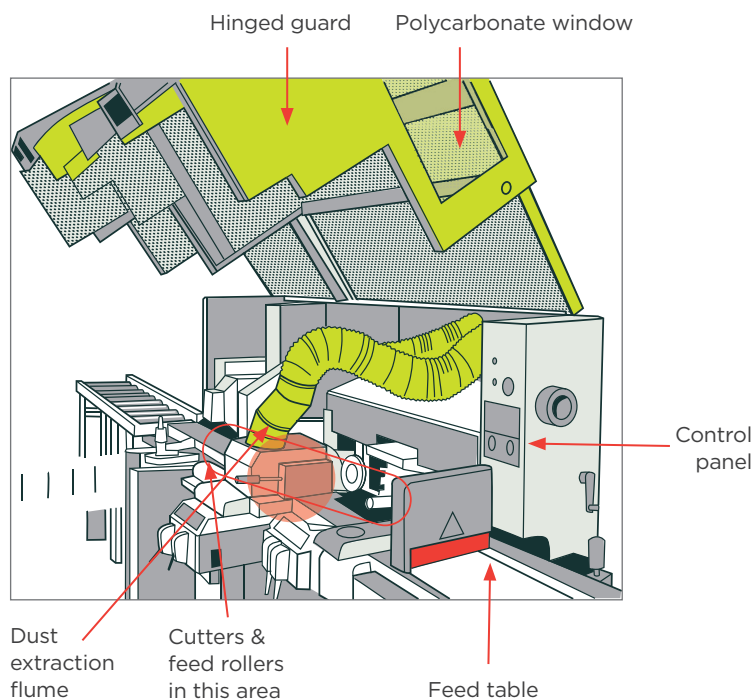


## FACT SHEET

# FOUR SIDERS

Also known as a timber moulding machine, a four sider has at least four cutting heads so it can machine and shape long sides of timber in one pass.

FIGURE 1: FOUR SIDER



### HAZARDS:

- > Contact or impact from thrown timber
- > Contact with cutters
- > Noise
- > Dust
- > Slips, trips & falls
- > Unexpected movement (during maintenance, cleaning & adjustments)

### PPE:



### TASK - CUT AND SHAPE TIMBER

| Hazard                               | Harm  | Controls   |
|--------------------------------------|---|--|
| Contact or impact from thrown timber | <ul style="list-style-type: none"> <li>&gt; Bruising</li> <li>&gt; Fractures</li> </ul> | <ul style="list-style-type: none"> <li>&gt; KEEP cutters sharp, so their energy is used to cut, not push against the timber.</li> <li>&gt; INSTALL sensors to detect whether timber is presented correctly to the cutters.</li> <li>&gt; POSITION the machine to prevent timber hitting anyone.</li> </ul> |
| Contact with cutters                 | <ul style="list-style-type: none"> <li>&gt; Deep cuts or amputation</li> </ul>          | <ul style="list-style-type: none"> <li>&gt; FIT a bridge guard above the cutters. Width MUST be 1½ times the width of the opening.</li> </ul>  |

## OTHER (NON-MECHANICAL) HAZARDS

| Hazard                 | Harm  | Controls  |
|------------------------|---|---|
| Noise                  | <ul style="list-style-type: none"> <li>&gt; Hearing damage or loss</li> </ul>   | <ul style="list-style-type: none"> <li>&gt; REDUCE noise levels by isolating machines or enclosing within noise barriers.</li> <li>&gt; ASSESS noise levels.</li> <li>&gt; ARRANGE hearing screenings.</li> <li>&gt; ALWAYS WEAR hearing protection.</li> </ul> |
| Dust                   | <ul style="list-style-type: none"> <li>&gt; Eye irritation or damage</li> <li>&gt; Breathing problems, lung damage or cancer</li> <li>&gt; Worsening of existing health problems</li> </ul> | <ul style="list-style-type: none"> <li>&gt; USE dust extraction equipment to minimise dust getting in the operator's breathing zone.</li> <li>&gt; ALWAYS USE respiratory protection.</li> <li>&gt; ALWAYS WEAR eye protection.</li> </ul>                      |
| Slips, trips and falls | <ul style="list-style-type: none"> <li>&gt; Trapping</li> <li>&gt; Cuts</li> <li>&gt; Bruising</li> </ul>   | <ul style="list-style-type: none"> <li>&gt; KEEP up-to-date housekeeping procedures.</li> <li>&gt; KEEP the area around four siders clear of slip and trip hazards.</li> </ul>  |

A safe noise level over an eight hour day is 85dB(A). A four sider machine may exceed this noise intensity. Noise levels will be worse when the cabinet is open during set-up.

## TASK - MAINTENANCE, CLEANING & ADJUSTMENTS

| Hazard   | Harm   | Controls  |
|--|--|---|
| Contact, impact or entanglement from unexpected movement | <ul style="list-style-type: none"> <li>&gt; Crush injuries</li> <li>&gt; Deep cuts or amputation</li> <li>&gt; Fractures</li> <li>&gt; Bruising</li> </ul> | <ul style="list-style-type: none"> <li>&gt; LOCK-OUT all power supplies before maintenance, cleaning or adjustments. This includes electrical, hydraulic, and pneumatic supplies.</li> <li>&gt; BE AWARE that cutters may have significant overrun time after the power is turned off.</li> <li>&gt; If braking time is greater than 10 seconds, owners should retrofit braking.</li> </ul> |

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

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