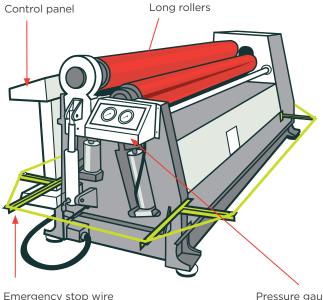


# FACT SHEET

# THREE ROLL BENDING MACHINES

Three roll bending machines roll sheet metal to form curves. When sheet metal is placed manually between the rollers, which must turn to secure the metal sheet, fixed or interlocked guards are impracticable. Plate metal thicker than approximately 6 mm will be placed by crane to prevent the operator getting too close to the rollers, and reduce the risk of manual handling injuries.

#### FIGURE 1: THREE ROLL BENDING MACHINES



#### **HAZARDS:**

#### PPE:

- > Trapping between rollers & metal
- Trapping between turning rollers
- > Contact with sharp edges of metal
- > Noise
- > Slips, trips & falls
- > Entanglement from unexpected movement (during maintenance. cleaning & repairs)



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Pressure gauges

### TASK - FEED SHEET METAL THROUGH THE ROLLERS

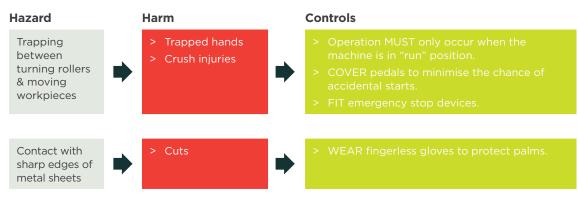


#### Controls

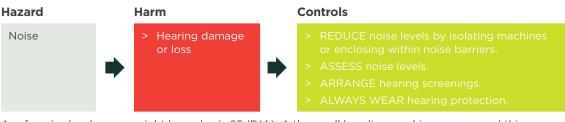
Sheet metal is usually placed by hand between the rollers, which turn together to pull the sheet through. As it passes between the rollers, the sheet curves to a diameter limited by the size of the rollers. The action that draws in a metal sheet can also draw in a hand. Finger ends of gloves can become entangled and draw fingers and hands into nips.



### TASK - LOAD & UNLOAD



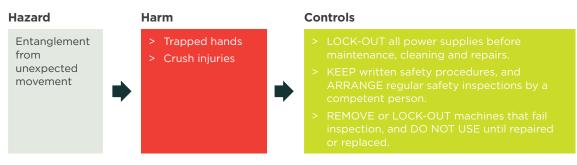
# OTHER (NON-MECHANICAL) HAZARDS



A safe noise level over an eight hour day is 85dB(A). A three roll bending machine 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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