

# FACT SHEET

# PAPER CUTTING GUILLOTINES

## Paper cutting guillotines are used to cut stacks of paper or cardboard.

Guillotines have a clamp that secures the paper in a stack, and a back gauge to control the position of the cut by positioning the stack. Similar to the action of scissors,

the blade shears the paper, starting at one side of the stack.

Because the stack of paper is usually a few centimetres high, safety systems on the operator's side of the guillotine will not necessarily isolate the clamp and blade hazards. However, other safety precautions can be put in place.

**HAZARDS:** 

> Repetitive movements > Entrapment with clamp and blade

moving parts

Slips, trips and falls

Impact or

entanglement

maintenance, cleaning & repairs)

from unexpected

movement (during

>

> Noise

>

>



# **FIGURE 1: PAPER CUTTING GUILLOTINE**

## TASK - LOAD & UNLOAD MATERIALS

Harm

Strain injury

Hazard

Lifting and

Repetitive movements

turning

#### Controls

Stacks of paper may be heavy and awkward to lift. Tables SHOULD adjust upward as the paper stack goes down. They SHOULD have air support to minimise friction between table and paper, reducing the required effort.



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PPE:

#### TASK - MAKE THE CUT



Moving parts can entangle anyone reaching into the back. Parts may fall when cuts are measured from behind the blade but controlled from the front. Full pressure MUST NOT occur until the cutting stroke begins, and when the paper is clamped securely at full pressure.

#### **GUARDS**



**Sweep away guard**s are located in front of the blade and clamp to push the operator's hands away from the hazard.

A modern guillotine may have:

- > an active optoelectronic protective device (AOPD) fitted, or
- > light curtain with control system, which MUST ensure that the light curtain stops movement of the guillotine before a hazard can be reached.

If the guillotine is a **full revolution type**, powered by a flywheel, the clamp and blade must be interlocked against faults allowing unexpected movement between intentional powered strokes.

#### **OTHER (NON-MECHANICAL) HAZARDS**



A safe level of noise over an eight hour day is 85dB(A). A paper cutting guillotine may exceed this noise intensity.



### TASK - MAINTENANCE, CLEANING & REPAIRS



Instructions MUST be in a language understood by operators.



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

PUBLISHED: APRIL 2014. CURRENT UNTIL REVIEW IN 2017