

~ FABRICATION ~



METALWORK

OPERATING INSTRUCTIONS



METALWORK

INTRODUCING

the

BAND SAW



Band Saw, metal cutting

Access Level 3 (see Metal Workshop induction Guide on Access Levels)

Cutting different types of metals and plastics only

PPE Basic

- Suitable work coat (provided)
- Stout footwear
- Safety glasses or Faceshield, rated to BS/EN166 (provided)
- Leather gloves if handling sheets of metal – but not while pushing metal sheet through machine – keep this hand free from gloves (provided)
- Keep rings, ties and dangling jewellery tucked away or removed
- Keep hair tied back
- Ear defenders/earplugs (provided)

What to do before use

- Check machine isolator is in the OFF position
- IF STUDENT , report any faults to any member of workshop academic/technical staff
- IF STAFF, log the fault via the Fault Reporting Log Book – then email technical team to report if machine requires maintenance or servicing and whether it will be out of operation and for how long
- A BRIEF RUNNING CHECK of the fitted blade, i.e. under power – watching & listening for reportable faults – is advised before use
- Fixed GUARDS fitted and in good condition?
- AREA AROUND the band saw is clean and tidy and free from obstructions?
- ADEQUATE overhead/natural/machine lighting?
- Safety accessories such as PUSH STICKS are present and not damaged too badly?
- Push sticks minimum SAFE RECOMMENDED length is 450mm from hand point to contact with blade teeth

How to Use This Metalworking Band Saw

- Make sure **SOMEONE** knows that you are using the band saw, in case of an emergency
- Know the location of the **START** and **STOP** buttons and keep the area tidy of other materials.
- Know where the nearest **EMERGENCY STOP** is located, including foot stops on the machine
- Ensure safe and correct manual handling of large or heavy metal and support is provide for the material with an adjustable stand – or **ASK** someone for assistance when handling large or awkward pieces
- Switch the Isolator the **ON** position
- Press the **START** button and allow the saw to reach full speed
- Adjust the speed of the blade by using the **SPEED CONTROL LEVER** on the side while the machine is running, generally faster for thinner metal and slower for thicker metal, fine tuning of the speed can be achieved via the **SPEED DIAL** on the left
- Never work with fingers directly **IN FRONT** of the blade; always to the sides of the blade and keep thumbs tucked in
- While cutting **DON'T OVER-FEED** the your material through the band saw blade; let the saw blade do the work
- **CUTTING GUIDES** can help you set up your work and **USE A PUSH STICK** for removing small fragments as well as for pushing your work through to keep hands well away from the blade
- If there is **EXCESSIVE VIBRATION**, check the speed of the blade is suitable for the material or do another visual inspection of the blade; a tooth may have been damaged
- When you have finished working, **ISOLATE** the machine before doing anything else
- **CLEAN AND TIDY** the machine of swarf and dispose of swarf safely – not on the floor

Date

I verify that I have read and understood the information detailed within this document

Name

Signature