



Swiftly CNC cutter

Health & Safety



1. Environmental, Health and Safety Considerations

Environmental

Water treatment

We recommend the use of water treatments to prevent the build-up of bacteria and also to inhibit corrosion. Please see our website for recommended treatment.

Disposal of water

Please contact your local environmental health office as requirements differ from country to country.

Waste material

Ferrous and non-ferrous material must be disposed of into metal recycling bins.

Fumes

Water tables filled to the correct level will take out 90% of all fumes. However, if the material being cut is contaminated with items such as paint and oil, the cutting process will create more fumes, some of which may not be caught by the water. For this reason, we recommend that this table is only used in well-ventilated areas.

If you find the cutting process creating too much fume then you will need to slow down the cutting process by upto 50% depending on material and contamination.

Galvanised material

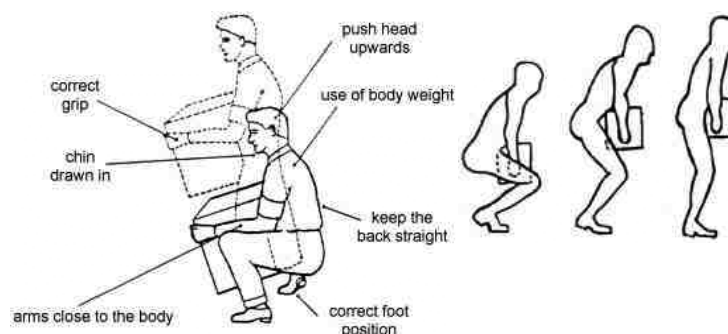
When cutting galvanised material, carcinogenic fumes are created. If galvanised materials need to be cut, we recommend the use of filtered breathing apparatus or filtered extraction over the table bed.

When cutting contaminated material, such as mild steels with an oil finish or plastic-coated steel, use in a well ventilated area.

Health

Lifting instructions

Please observe the correct manual handling instructions when lifting the table or plate.



The CNC table alone weighs 75Kg, so we recommend a three-man lift. Always lift the table from the ends. (see video 1.1 unpacking Swifty).

Ventilation

Open any windows or doors and never use in a confined space.

Recommended PPE

We recommend the following Personal Protective Equipment (PPE):

- Eye protection – shade 5 safety glasses (According to ANSI Z49.1:2005)
- Safety gloves
- Safety shoes
- Breathing apparatus if cutting galvanised material

Material handling

We recommend wearing gloves to prevent burns and lacerations.
Ensure appropriate weight-lifting methods and aids are used, as illustrated above.

Safety

The following warnings should be observed when using your Swifty CNC machine:



Voltage warning: risk of injury through electrical shock .

Note: The control is supplied either 110v/230v, and the table is supplied with 24v DC. This excludes the plasma source.



Moving machinery: risk of trapped fingers etc.



Do not run the machine with safety covers removed



Do not use near any flammable material due to danger of fires or explosions

Materials you can cut

You can cut mild steel, stainless steel, aluminium, brass, copper and any ferrous and non-ferrous materials.

Note that results may differ depending on the material used.

Table base

The table should be placed on a base that is sturdy and capable of supporting 110Kg.

Emergency Stop

The emergency stop button is located on the control box, please keep this box in arms reach at all times whilst using the table.