

**Hand-held model...**

Mark the pipe as with the stand mounted model.

Open the hand lever fully then place the pipe into the former with the mark in line with the formers edge and the tail of the pipe hooked under the retainer.

Place the guide onto the pipe with the sole plate end in line with the top start point of the former. Then close the hand levers until the required angle is achieved.

Open the levers, remove the guide followed by the pipe.

**EQUIPMENT CARE**

Never push the equipment beyond its design limits. If it will not do what you want with reasonable ease and speed, assume you have the wrong size tool for the job. Contact your local HSS Hire Shop for advice.

Keep the equipment clean, you will find this less of a chore if you clean it regularly, rather than wait until the end of the hire period.

When not in use, store the equipment somewhere clean, dry and safe from thieves.

**FINISHING OFF**

Dismantle the unit, simply reverse the instruction in 'GETTING STARTED'.

Collect all the guides and where applicable the formers and place in their carry case.

Give the unit a final clean up ready for return, to your local HSS Hire Shop.

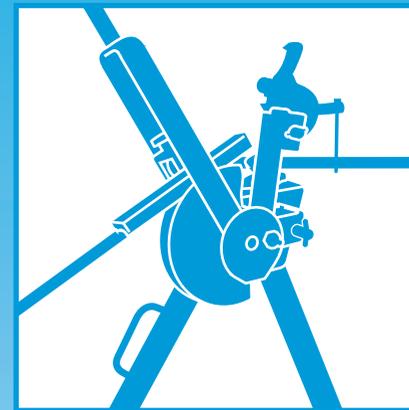


**...any comments?**  
 If you have any suggestions to enable us to improve the information within this guide please fax your comments or write to the Product Manager at the address below  
**Fax: 0181-687 5001**

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**Operating & Safety Guide 751**

**HSS Hire Shops**



**Copper and Conduit Pipe Benders**

Stand mounted and hand held benders for accurate bends in metric copper pipes and electric conduit.



Code 68300 / 68310 / 68350

## GENERAL SAFETY

For advice on the safety and suitability of this equipment contact your local HSS Hire Shop.

This equipment should be used by an able bodied, competent adult who has read and understood these instructions. Anyone with either a temporary or permanent disability, should seek expert advice before using it.

Keep children, animals and bystanders away from the work area.

  Never use this equipment if you are ill, feeling tired, or under the influence of alcohol or drugs.

  Wear practical, protective clothing, gloves and footwear. Avoid loose garments and jewellery that could catch in moving parts, tie back long hair.

Ensure the work area is well lit and ventilated.

Check the condition of the equipment before use. If it shows signs of damage or excessive wear, return it to your local HSS Hire Shop.

Watch your footing. Take special care if working other than on firm, level ground.

## GETTING STARTED

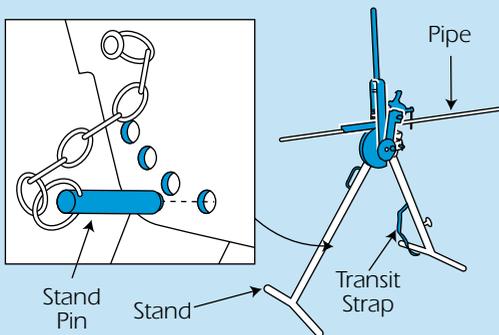
Prepare the work area so that there is enough room for you to work with long lengths of pipe, without being hindered by lack of space.

Stand mounted copper or conduit model...

Check that the formers supplied are correct for the item being bent. Copper formers (the large half moon castings, painted blue) come complete with dedicated guides (long concave bar, made of aluminium). Conduit formers (the large half moon castings, painted red) do not have guides.

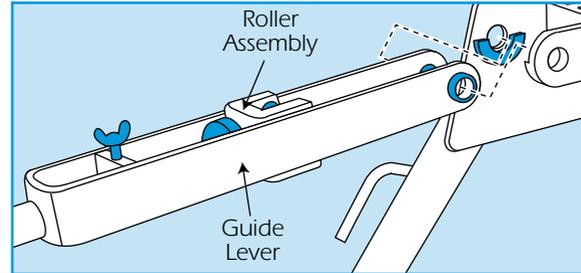
Their size can be checked, look on the flat surface on the base of the former (conduit will be marked 16, 20, 25 and 32mm where as copper will be marked 15, 22, 28, 32mm).

### Stand Mounted Model

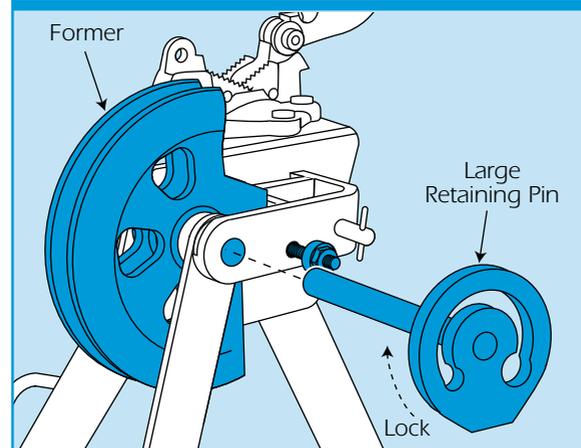
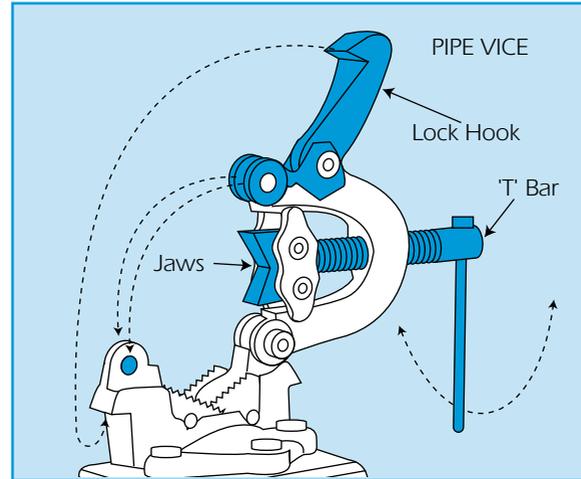


Unfasten the transit strap, remove the stand pin, set the stand on firm ground, open the legs to the desired height and relocate the stand pin.

If the correct former is not fitted, unwind the roller assembly on the guide lever, until it is clear of the former which is fitted or to be fitted (dependent on which is the larger).



Lower the guide lever then take a firm hold of the fitted former and withdraw the large retaining pin followed by the former.



Place the correct former in position (it can't be fitted up side down!) and replace the large retaining pin, ensuring it is fully home, then lock in place by turning the pin clockwise.

If necessary, adjust the pipe retaining block to suite the size of former.

To do this, pull and hold the retaining pin and raise or lower the retaining block bar as necessary, and release the pin ensuring it is securely located in its respective location hole.

Hand-held copper model...

Select either 15mm or 22mm guide.

## BASIC TECHNIQUES

Stand mounted model...

If required, cut the pipe to length, the pipe can be held in the vice fitted to the stand. Be sure not to over tighten the vice as the pipe will be easily damaged.

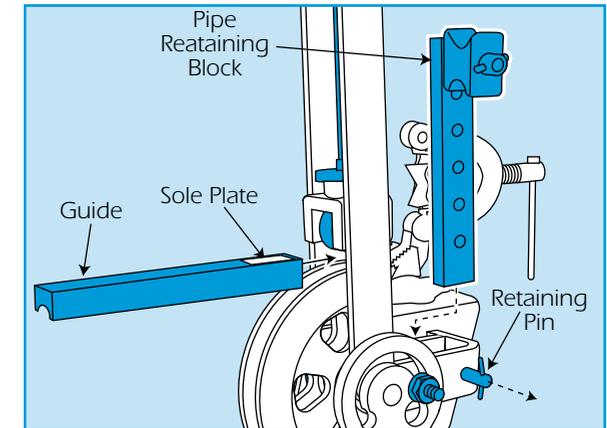
If cutting, for best results use a wheel type cutter, if using a hack saw, ensure any burrs on the edges of the pipe are removed.

Mark the pipe so that the mark is at the start of the bend.

Raise the guide lever, clear of the formers curve.

Place the pipe into the former with the mark at the top start point of the former. The pipe tail should be in contact with the underside of the pipe retaining block, as this anchors the pipe during the bending process.

For copper, place the guide onto the pipe with the sole plate end in line with the top start point of the former.



Lower the roller assembly on the guide lever, until it is either in contact with the guide, or for conduit, in direct contact with the pipe.

All that remains is to simply lower the guide lever.

Once the pipe has been bent to the required angle, return the guide lever to the upper position and where applicable, remove the guide.

Finally remove the pipe/conduit from the former.