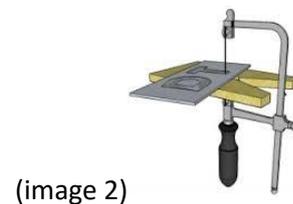
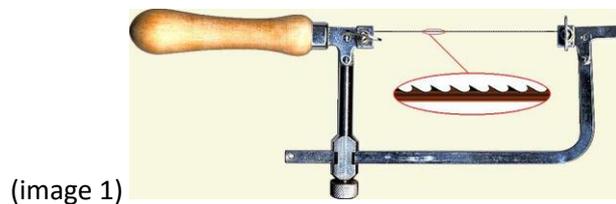


PIERCING SAW AND BLADES

The piercing saw is the main type of cutting tool for jewellers. It is designed to be used upright on a jewellers bench peg (image 2). With a very fine saw blade and some practice you will be able to cut out very intricate shapes in sheet metal. The saw blades should be inserted with the teeth pointing towards the handle and the cutting edge facing out (image1)

There are different size saw blades but if you have some and you don't know the size, the general rule is that you need 1.5 teeth per thickness of metal (get your magnifying glasses out).

Blade size	4	3	2	0 (Also 1 or 1/0)	2/0	3/0	4/0	5/0	6/0
For cutting metal:	1.3mm and thicker	1.2mm - 1.3mm	1.1mm - 1.2mm	Good general blade best for 1mm – 0.8mm	0.8mm - 0.6mm	0.7mm - 0.5mm	0.6mm - 0.5mm	0.5mm - 0.4mm	0.4mm and thinner



SOLDER AND FLUX

Always use flux (Image a) when soldering as this helps prevent oxides forming on the metal when it is heated. If there are oxides on the surface the solder will not join the two parts together.

There are 5 types of silver solder which all have different melting temperatures so that you can solder different parts to a piece without melting your first join.

Cut the solder into small pieces using a pair of tin snips (Image C) by creating a fringe and then cutting off

Enamelling	Hard	Medium	Easy	Extra easy
Only used when enamelling work after	745 – 778°C	720 – 765°C	705 - 703°C	667 - 709°C
1.5mm wide 1mm thick	5mm wide 0.6mm thick	1.5mm wide 0.7mm thick	3mm wide 0.5mm thick	2mm wide 0.45mm thick

