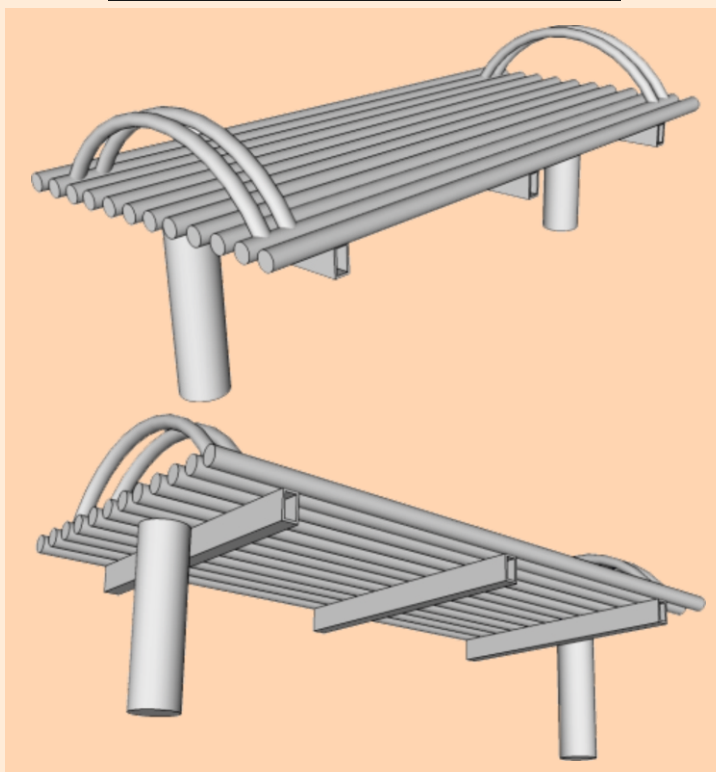


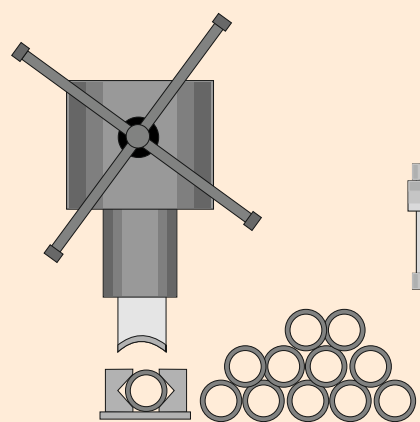
# SINGLE ITEM PRODUCTION / ONE OFF PRODUCTION - EXAMPLE TWO

## BESPOKE/ ONE OFF BENCH

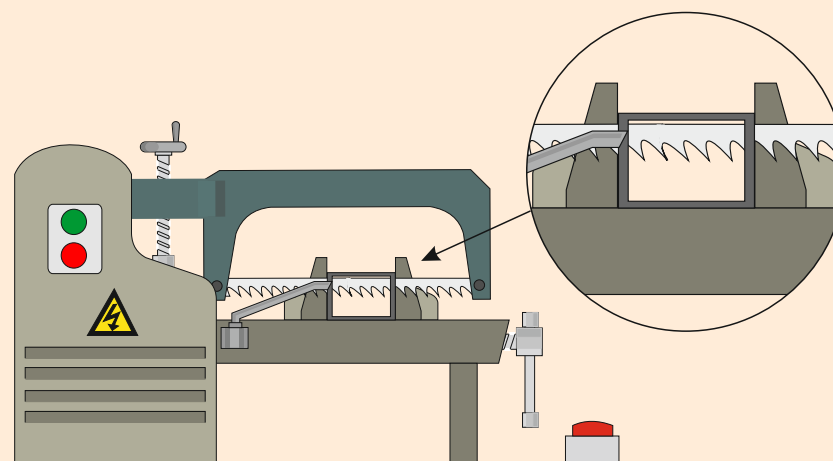


### 1 CUTTING STEEL TUBE TO LENGTH

THE LEGS ARE MANUFACTURED FROM MILD STEEL, ROUND SECTION TUBE. THE TUBE IS FIRST CUT TO LENGTH USING A MACHINE HACKSAW OR IF SPEED IS IMPORTANT, A POWERFUL TUBE CUTTER. THIS IS LIKE A GUILLOTINE, WHICH SLICES THROUGH THE STEEL.

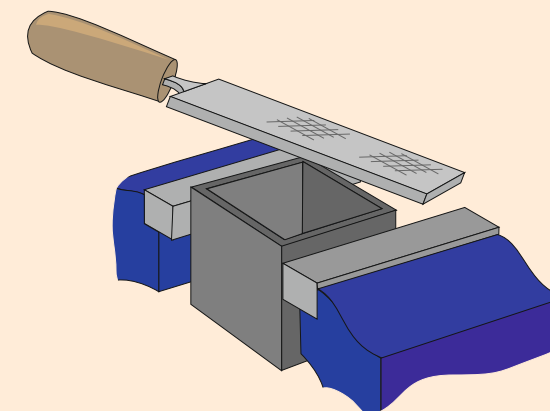


THICKER SQUARE SECTION METAL CANNOT BE CUT BY HAND OR BY A TUBE CUTTER. A MACHINE HACKSAW IS USED.



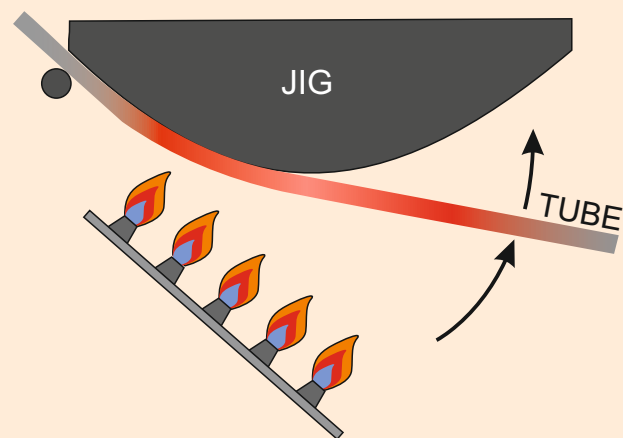
### 2 SMOOTHING BURRS AND ROUGH EDGES

A HAND FILE IS USED TO SMOOTH ALL THE SHARP EDGES. THIS CAN BE FOLLOWED BY EMERY CLOTH (IF REQUIRED). THIS SMOOTHS THE STEEL FURTHER.



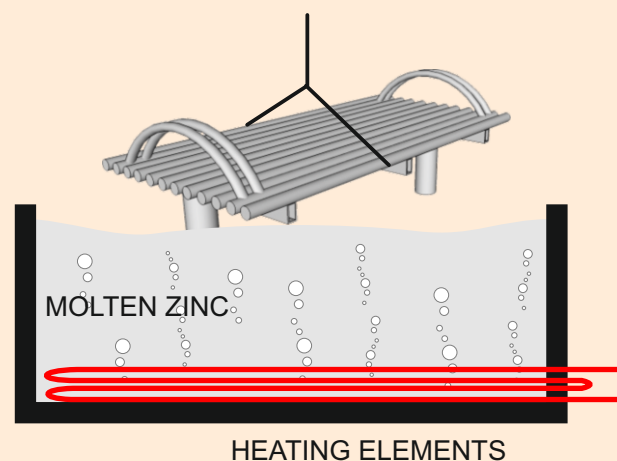
### 3 USING A JIG TO FORM THE CURVES / ARCHES

THE STEEL TUBE ARCHES / CURVES FOR THE BENCH, ARE FORMED BY HEATING EACH TUBE TO 'RED' HEAT AND 'BENDING' ON A STURDY STEEL JIG.

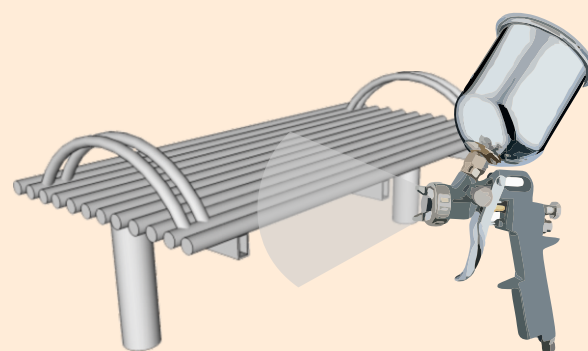


### 5 GALVANISED OR SPRAY PAINT

THE STEEL FRAME IS GALVANISE (ZINC COATED). THIS HELPS PREVENT RUST / CORROSION - RUST CANNOT TAKE HOLD. A SPECIALISED PROCESS.



FOR AN EVEN BETTER WEATHER RESISTANT FINISH, THE MILD STEEL IS GALVANISED AND THEN SPRAY PAINTED. THIS IS THE MOST EXPENSIVE OPTION.



### 6 THE COMPLETED STEEL TUBE BENCH

THE BENCH IS THEN TRANSPORTED TO A PERMANENT SITE. IT IS BOLTED TO CONCRETE FOUNDATIONS. DURING THE ASSEMBLY PROCESS GALVANISED NUTS AND BOLTS ARE USED. THIS HELPS PREVENT RUST.



### 4 WELDING

THE STEEL TUBES ARE WELDED TO FORM A FRAME. THEY ARE GAS WELDED TOGETHER (OXYACETYLENE GAS MIXTURE). A MIG WELDING OR ELECTRIC ARC EQUIPMENT CAN BE USED.

