

## "Chain mail Braiding "

Chain mail Braiding is to be obtained from braiding metal wire draw according to the garment and helmet model and would be considered as one of the ancient human beings arts ; But unfortunately we can't mention an exact date for its beginning .

Based on parol narrations and some poems , David (P.B.U.H) has been occupied himself to metalworking in order to manufacture war clothes .

### " Needed instruments and apparatus "

**Metal rods from number 1 to 7 :** In order to twist metal wire draws ( iron, copper, brass ) and turn these wires to loops which is used as those which have been braided by them .

Particular wire draws for Chain mail Braiding : normally, they are some kind of iron, copper, brass , steel , galvanized iron and their size would be 0/5, 0.8 , 1 and 1/2 mm.

**Drill :** we use it in order to install rods by particular wrench and at last we use these metal wire draws ( iron, copper, brass and steel ) to twist over rods.

**Cutter :** we use it in order to cut those wire draws which have been shaped as springs .

**Flat nose Pliers :** we use it to braid those loops which have been provided by wire draws according to the size of individuals.

**Plier :** we use it to cut off the excessive parts of metal loops and wires .

**Rivets :** we use these riveting nails in order to improvise on the fastening and chain mail linkages.

**Riveter :** It's a kind of apparatus which is used in order to rivet the fastenings on the chain mail .

**Particular wrenches :** we use them in order to replace those rods which is fastened on the Drill head and also used to install cutter apparatus on the worktable as well as replacing blade .

**Diamond blade :** This is s kind of blade which is used in order to be placed in press apparatus as well as cutting the wires .



## " Chain mail manufacturing Process "

**1-First , we choose the wire draw thickness and type of proportionate to desired product .  
The type of wire draws would be copper, brass, Iron and etc.**

**The size of Wire draws 0/5 , 0/8 , 1 and 1/2 mm.**



**2- wire draws would be shaped as spring using Drill and particular rods which have been fastened on the Drill head . In this stage , drill would be fixed by a pincer which is fastened to a worktable .**

**The desired rod which its thickness is different with respect to inner diameter of loops would be fastened to Drill and then wire draw would be braided around it and the spring will be formed when we switch on Drill.**



3- the spring would be cut using the cutter which is fastened to worktable and the needed loops , the primary units of chain mail texture would be obtained .



4- loops then would be ready and smooth to be braided using 2 pliers.



5- we need Primary units with 5 loops in order to braid . in this case, 4 loops would be placed within 1 loop .

6- the multiplication of these units and then joining them together would be cause to create an integrated texture and we can achieve the helmet and chain mail forms using appropriate models . for instance , 26 units will be manufactured for the chain mail in teenagers size.



7- we can use some metals such as brass or copper wire draws with different colors in order to form a design over an iron ground .



8- we use rivets in order to join some pieces of texture . you can obtain ready-to-use rivets in the market .

