# #84118 COIL MANDREL SET INSTRUCTIONS



Anyone who has tried to make a miniature coil of wire will tell you it is not as simple as winding it around a rod chucked in an electric drill. The wire must be properly anchored and the speed must be carefully controlled for the wire to coil correctly. Our beautifully machined and plated coil mandrels include holes that anchor the wire to give you a perfect winding every time. The 1/4" hex shank fits the Dremel Driver and other variable slow-speed tools.

Set of eight mandrels includes 1, 2, 2.5, 3, 4, 5, 6 and 8 mm diameters (.039, .079, .098, .118, .157, .197, .236 and .315 inch). Mandrels are 4" long overall; accommodate wire up to 1/16" diameter.
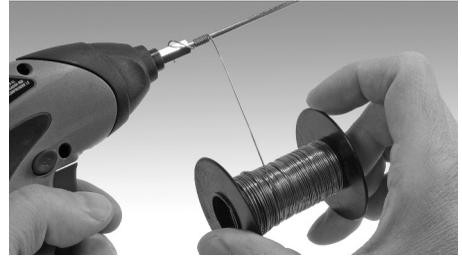


**How to use:** Select the mandrel you need for the nearest inside diameter of the coil you wish to wind (the diameter is stamped on one flat surface of the hex shank). Please keep in mind that large diameter wire cannot be wound around small diameter mandrels (the mandrel will bend from the tension on the wire).

For the smaller mandrels, you may have to limit the wire size, total length of coil, and tension applied to the wire to avoid damaging the mandrel; supporting the loose end will help. Insert the hex shank into the driver. Insert the wire through the hole in the shank (or, on the larger diameters, through the mandrel itself) so that it protrudes a bit from the exit side and won't slip out (bend over the stub end if necessary). Now, turn the driver on at slow speed and let the wire wind around the mandrel (as shown above). Maintain sufficient tension on the wire to have it wrap tightly.

For uniform coils, control the wire so that the coils touch each other while winding. For open coils, you will need to devise some means of controlling the feed of the wire at the desired pitch (not included with set).

After winding the desired number of coils, stop the drive and nip the anchored end of the wire. Remove the coil and trim as desired.

To make jump rings, use a flush cutting plier to cut alternate ends of a single coil in such a way that they will form a round ring when the ends are positioned together. Use solder to make a permanent connection.

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