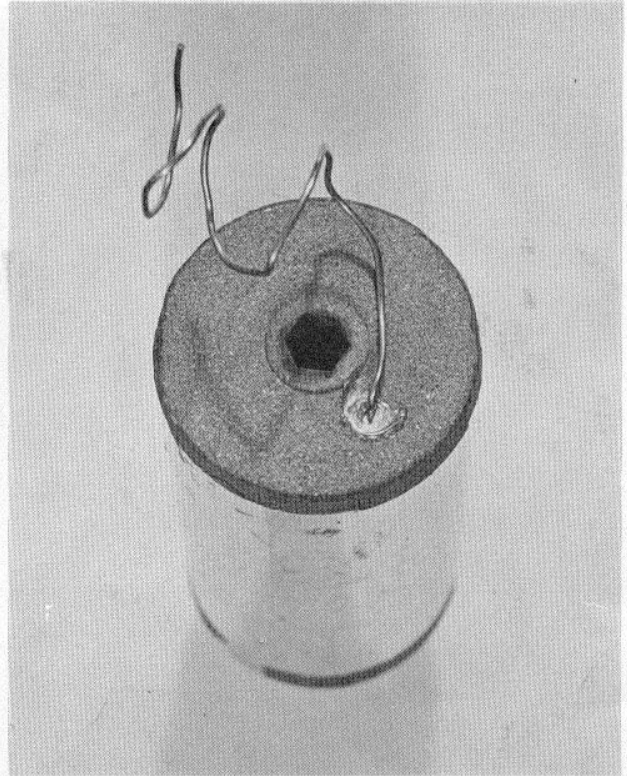


ELS 1

Electrical Soldered Joints



Capacitor Spraying

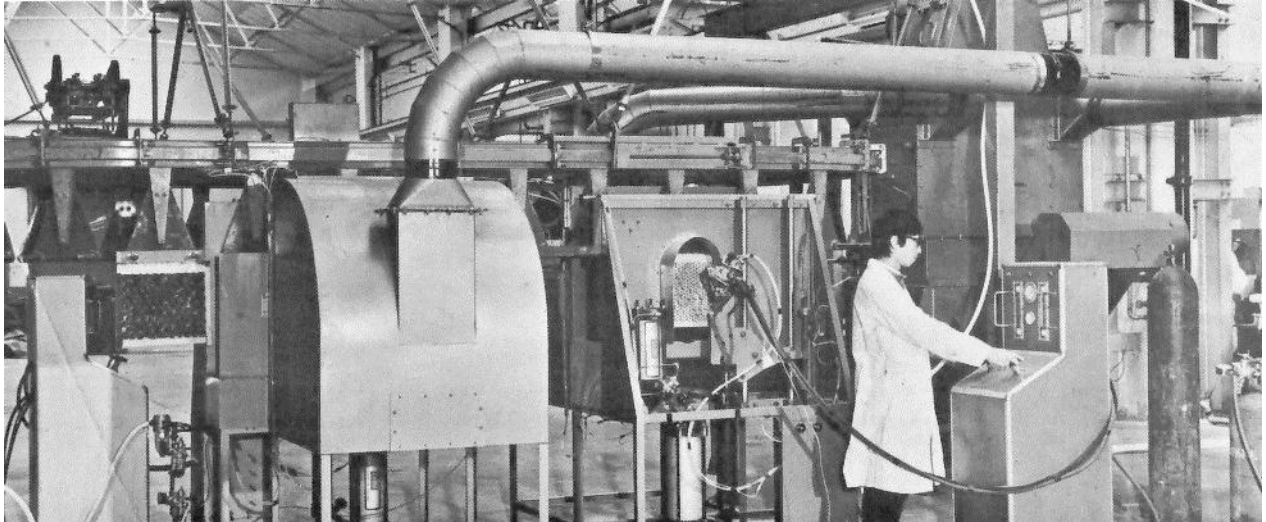
For many years flame spraying has been used to provide electrical connection points on film and foil capacitors. The development of the Metallisation Arcspray electric arc equipment now makes it possible to spray capacitors with a total absence of flame impingement and radiant heat associated with the oxy-propane method. The Arcspray System gives a dense, low oxide deposit with virtually no heat input into the capacitor during the spraying operation; this is particularly important with the increasing use of polyester type capacitors.

In addition, the arc deposit improves immensely the dissipation factor of the capacitors and also the quality of the contact. Tests by major manufacturers have been carried out over duration periods in excess of 3,000 hours and show that the performance of the electric arc sprayed capacitors has considerably improved over those treated by the gas sprayed method.

The photographs show (right) a soldered connection to a capacitor, and (left) the hand spraying of small production batches of capacitors – note the method used for masking.

ELS 2

Electrical Soldered Joints



Capacitor Spraying

The high volume production requirements for certain types of capacitors preclude the use of simple hand spraying techniques. Metallisation Ltd has for a number of years specialised in the design and supply of large automatic plants, a typical example of which is illustrated in the photograph; in such plants the complete flow-line treatment of the capacitors is accomplished.

The Metallisation Arcspray Range of Equipment lends itself readily to incorporation in this type of plant and the simplicity of the Arcspray Control System is ideal for flow-line applications. The process also has peripheral advantages for capacitor spraying in that the economics of the process are considerably improved due to the elimination of high cost gases and the ease with which the arc spraying equipment can be incorporated into automatic spraying facilities.