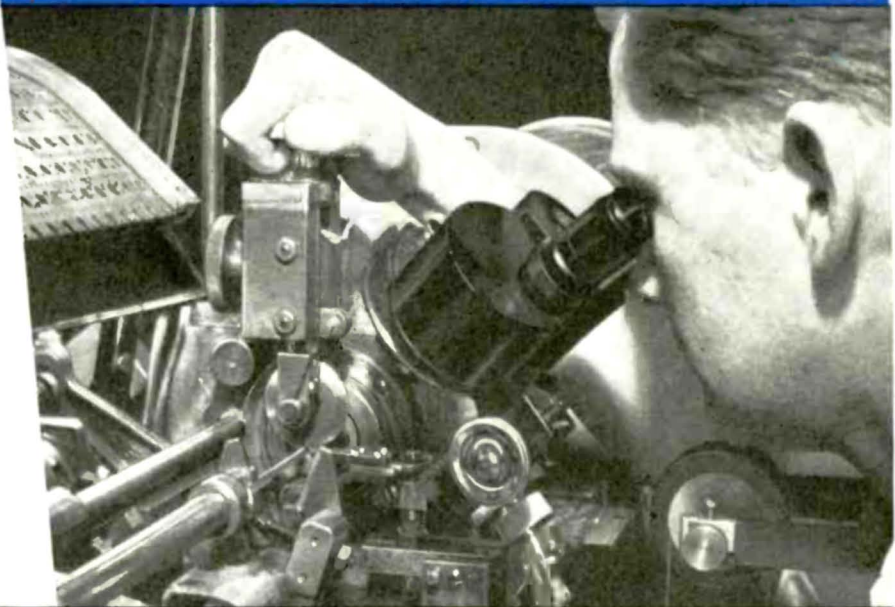
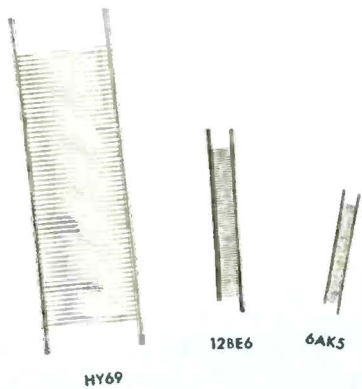


MAKING TUBES IS EASY If YOU KNOW HOW!

● On this automatic grid winding lathe, the two heavy side-post wires — drawn from two large spools — are pulled taut over a mandrel form. A cutting wheel nicks these support wires, as the mandrel, wires, and spools revolve on the lathe. Very fine lateral wire is simultaneously wound from another spool into these nicks, with the mandrel providing the proper cross-sectional shape. A swedging wheel presses the side-post rods, thus anchoring each lateral turn firmly into place. Finished grid strips approximately twelve inches long are then cut to the required lengths. Excess turns are removed from each end of these short lengths preparatory to assembly. The completed grid is finally micro-gaged and micro-inspected.



HERE'S AN EXAMPLE OF HYTRON KNOW-HOW..



NOTE THE SMALL DIMENSIONS OF THESE GRIDS

Tube	Grid	Turns Per Inch	Length of Winding	Width of Winding
HY69	Screen	30	1.417 in.	0.570 in.
12BE6	Control	76	0.776 in.	0.135 in.
6AK5	Control	200	0.322 in.	0.100 in.

12BE6 and 6AK5 grids cannot successfully be illustrated, because of their minute size.

MASS production and a watchmaker's precision usually are strangers — especially if unit cost is low. Here you see a job setter adjusting a precision lathe on which tiny grids are wound to tolerances as tight as .0005 inch. Keen eyesight, patient perseverance, and the skill of a fine toolmaker, are his requisites. Pitch, turns per grid, inside and outside diameters, cross-sectional shape must be right on the nose. Furthermore, they must be kept there despite engineering changes in specifications, variances in materials, and wear and tear of the machine.

With this lathe turning up to 1000 rpm, grids form faster than the eye can travel. It is amazing to watch the tiny parts take shape — to examine with a microscope the rugged manner in which each lateral turn is swedged into the side-post rods.

Yet as you see these grids produced at top speed, it all looks easy. Nothing to it — *if you know how*. Then you stop to think. You realize skilled hands and precision machines are part of the Hytron know-how which makes tough jobs easy — which gives you tubes of dependable, jewel-like precision at prices absurdly low.

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