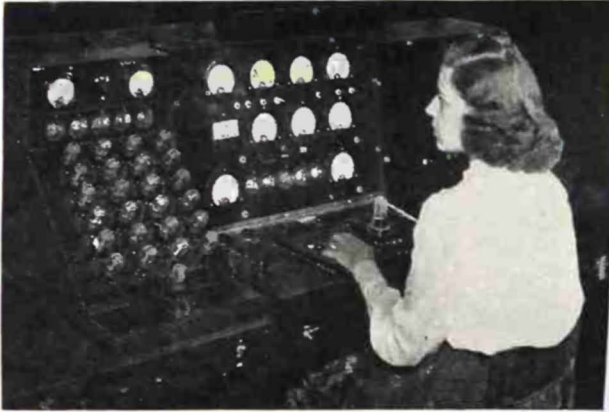


# MAKING TUBES IS EASY If YOU KNOW HOW!



This standardized Hytron production tester is composed of three units: preheater, characteristics tester, noise tester. To permit a better view of the equipment, only one of three operators is shown.

## HOW THE HYTRON 12SK7GT IS QUALITY CHECKED

Test	100% Production Test	Central Inspection Sampling	Quality Laboratory Sampling	100% Test at Packing
Shorts				
Base shell connection	X			
Heater current	X	X		
Plate current	X	X		
Screen current	X	X		
Grid current	X	X	X	
Transconductance	X	X	X	
Suppressor action	X	X	X	
Emission	X	X	X	
Heater-cathode leakage	X	X	X	
R-f noise	X	X	X	
Transconductance cutoff	X	X	X	
Vibration		X	X	
Insulation resistance			X	
Input capacitance			X	
Output capacitance			X	
Grid-plate capacitance			X	
Grid emission			X	
Immersion (basing cement)			X	
Life			X	
Overall length			X	
Mechanical*	X		X	X

\*Mechanical tests are covered by a multipage specification. Typical inspection is conducted visually and/or by gages for the following: pin solder, etching, getter flash, diameter, base-bulb alignment, bent base pins, glass defects, and rigidity of internal elements, bases and base pins.

## AGAIN HYTRON'S LONG EXPERIENCE

## GIVES YOU THE BEST...



Extreme accuracy and flexibility of this Hytron master test station particularly fit it for quality control.

**F**OR your protection Hytron tubes are quadruple-checked. On the production floor, each tube is first tested for significant characteristics. In the central inspection department, a random sampling is next taken for statistical control of the production testing—to assure quality within acceptance limits. Failure at this point demands 100% retest.

Daily a smaller random sampling is subjected to a searching design check of characteristics such as inter-electrode capacitances, grid emission, and transconductance cutoff. These characteristics can be controlled by the smaller sampling, and their testing requires laboratory precision. Simultaneously production tests are again repeated for further statistical control. Again failure to meet acceptance limits demands 100% retest—even for design characteristics not production-tested.

Finally each tube is once more short-tested and mechanically inspected just before packing.

This painstaking quadruple-checking ensures that specification failures of tubes actually shipped will be a practically irreducible minimum. When you buy a Hytron tube, you can be certain that every ounce of Hytron know-how on quality control—reinforced by wartime experience—has been in there punching to give you only the best.

OLDEST MANUFACTURER SPECIALIZING IN RADIO RECEIVING TUBES



# HYTRON

RADIO AND ELECTRONICS CORP.



MAIN OFFICE: SALEM, MASSACHUSETTS