



## Here АНГЛИЙСКИЙ becomes "English" - electronically

Just a few years ago even an Einstein would have thought a machine turning one language into another was a little fantastic.

Yet just this year Russian words were punched on an IBM card and fed into an electronic calculator. Ten seconds later the 701's automatic printer "responded" - in perfect English.

Linguists predict that within three to five years, electronic translators will be making sizable inroads on the staggering mass of Soviet writings now confronting the relatively few American translators.

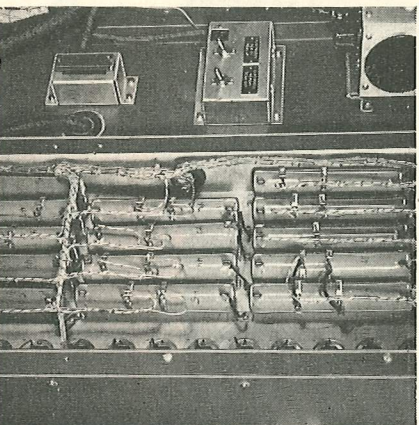
Designed for highly complicated mathematical calculations in the fields of atomic energy, guided missiles, and industry, the 701 had to "learn" translation from scratch.

After storing the Russian words and their English equivalents on magnetic drums, the 701 must perform about 160,000 operations to combine them into an intelligible sentence. These myriad operations are directed by the analytical control unit shown above.

Dependable performance of Ward Leonard power resistors is essential to the accuracy of this electronic analyt-

ical control unit. Not one resistor has failed since the computer was installed at IBM world headquarters one year ago.

If reliable performance is essential to your product, you'll find it in Ward Leonard controls. Write for 64-page Resistor Catalog No. 15, Ward Leonard Electric Company, 14 South Street, Mount Vernon, N.Y.



**WARD LEONARD RESISTORS** are used as bleeders in the diode protection voltage circuits of the 701's control unit. Failure here would cause serious calculation errors.

4.16

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MOUNT VERNON, NEW YORK

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