

THE NEW POIVILLIERS SOM STEREOTOPOGRAPHS TYPE B

by

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No spectacular change has been brought into the Poivilliers SOM Stereotopograph type B.

This lack of important changes is due to the only fact that, these machines giving full satisfaction to users for nearly fourteen years, it has not appeared necessary to bring modifications into optical and mechanical parts, with the sole purpose of "Making something new".

However slight improvements have been brought to meet entirely the needs created by new technics:

1. Some countries — among them the U.S.A. — having standardised cameras, focal lengths and photo sizes, the machine has been so modified as to permit the plotting of such photographs. Special plotting cameras have been designed.
2. The importance of the precise formation of the model becoming greater with the development of traverse methods, and the appreciation of transversal parallax correction having to be made from uneasy points of identification, the transformation of this transversal parallax into stereoscopic parallax has been made easier.

The corresponding image rotation, which was operated by a pin, is now controlled by a knob. This results in a gain of time when changing from one mode of sight into another.

3. Millimetric distances are read in a meter placed below eye level, for the operator's convenience.
4. Carriages "x" and "y" may be disengaged.
5. The length of the rods has been increased, and the friction rollers set about the front part of the carriages, thus enabling to increase the distance and, as a consequence the plotting scale.

In particular, as regards cadastral surveys, that improvement permits a diminution in the coefficient of amplitude in the co-ordinatograph.

6. The co-ordinatograph compounds two adjustable styles, which render easier the joining up of drafts.

The styles are electrically lifted. A stereoscope, set side apart, is fixed on the co-ordinatograph. It enables an easier drawing of a fair copy as well as the checking of the survey.

THE COMPILATION INSTRUMENT USING RECTIFIED PANORAMIC (OBLIQUE) PHOTOGRAPHS

The apparatus was constructed by the Société d'Optique et de Mécanique de Haute Précision (SOM) based on the designs made by Geographic Engineer Masson d'Authume.

It had been conceived in connection with the rectification instruments