

## ASKANIA N° 60 L. SURVEYING SEXTANT AND OTHER INSTRUMENTS.

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This sextant made by the Askania-Werke A. G., Berlin, Friedenau, is specially established for measuring horizontal angles whilst taking soundings in hydrographic work. It permits to measure angles up to  $135^{\circ}$ , the radius of the graduated arc is  $175 \frac{m}{m}$ . (7 ins.), the divisions are of 20 minutes of arc each, enabling the reading within 60 seconds. The outside measurements of the small case containing the apparatus are  $160 \times 280 \times 335 \frac{m}{m}$ . ( $6.5 \times 11.2 \times 13.4$  ins.), and the aggregate weight of the box and the instrument is 3.5 kilos (7.7 lbs.).

The Galileo's telescope is supplied with a progressive focussing obtained by revolving by hand a milled collar. The telescope's object glass has a  $36 \frac{m}{m}$ . (1.44 ins.) aperture, the magnification is  $\times 4$ ; revolver mounted shades may be interposed behind the eye-piece.

Each apparatus is delivered with the certificate of the *Deutsche Seewarte's* acceptance tests.

Among the various cartographic instruments constructed by the Askania-Werke, the  $360^{\circ}$  *transparent circular Protractor* of  $150 \frac{m}{m}$ . (6 ins.) diameter, equipped with an orthogonal graticule of parallel North-South and East-West lines, should be mentioned.

Another instrument called "*Doppelwinkelmesser*" is, in some sort, a perfected station pointer which may also be placed straight off on the plane table, and the legs of which may be oriented right onto the spots to be sighted with the aid of sighting vanes. The instrument's total weight is 4.6 kilos (10 lbs.); the legs are  $360 \frac{m}{m}$ . (14.4 ins.) long and lengthening pieces allow this length to be brought to  $530 \frac{m}{m}$ . (21 ins.). One of the legs can revolve by  $360^{\circ}$ , the other by  $180^{\circ}$  with reference to the non-rotating one. The case containing the folded up and dismounted apparatus measures  $110 \times 335 \times 440 \frac{m}{m}$ . ( $4.4 \times 11.2 \times 17.6$  ins.). Total weight 7.1 kilos (15.6 lbs.).

