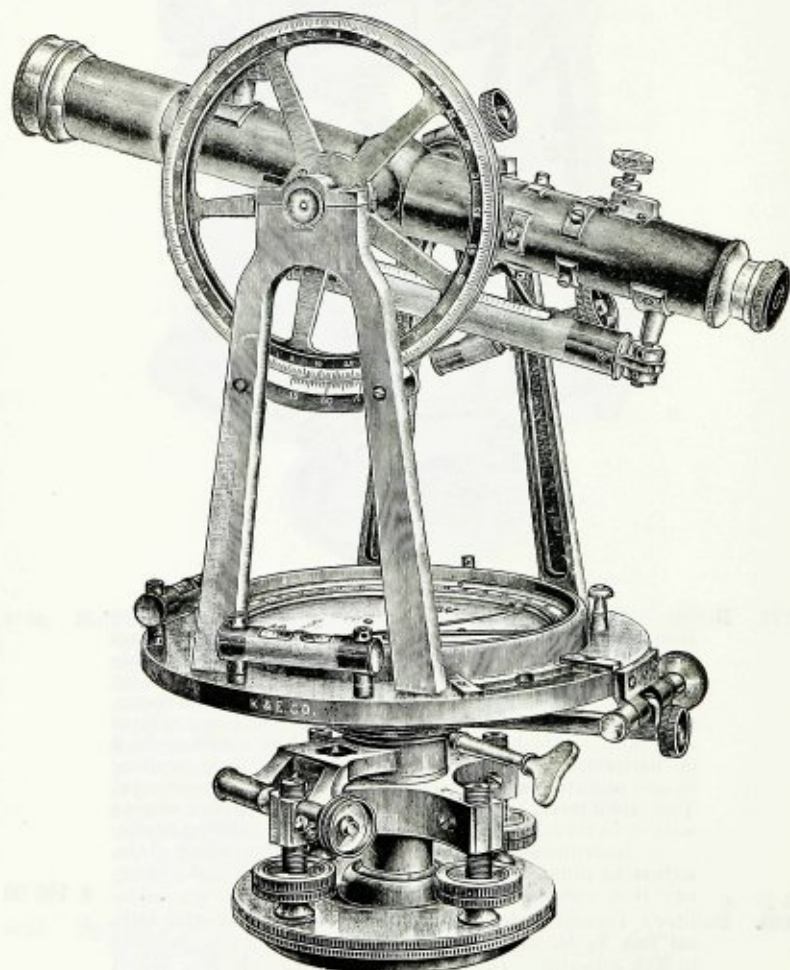


KEUFFEL & ESSER CO. NEW YORK.

ENGINEER'S RAILROAD TRANSIT.



No. 5160.

ENGINEER'S RAILROAD TRANSITS.

(For Synopsis of Transits see page 384.)

5130. Engineer's Railroad Transit (for repeating angles), achromatic terrestrial **telescope** $11\frac{1}{2}$ in., with dust cap and sun shade, **object-glass** $1\frac{1}{2}$ in. with improved rack-movement, **eyepiece** with patent micrometer focusing arrangement with lock nut. Clamp and Tangent Screw of improved pattern with counter-spring. **Compass** with silvered raised ring, graduated to half-degrees, with **variation plate** set by capstan-head pinion. **Needle** about 5 in. **Horizontal limb** $6\frac{1}{2}$ in. graduated on solid silver to half-degrees, reading to one minute by two opposite verniers placed at about 30° with telescope, numbered like Fig. IV, page 336. Two **spirit levels** to horizontal limb, graduated on the glass. Improved tangent screws with counter-spring. Long centres. **Four leveling screws**; leveling arms adjustable for wear. **Shifting centre**.
Instrument complete, with plumb bob, reading glass, adjusting pins, water-proof cover, etc., packed in polished mahogany Box and with No. 5178 Split Tripod. \$ 150 00
5140. Engineer's Railroad Transit, as described under No. 5130, but with **spirit level to telescope**, graduated on the glass.
Instrument complete, with No. 5178 Split Tripod, etc. 160 00
5150. Engineer's Railroad Transit, as described under No. 5140, but with **vertical arc 5 in.** diameter, graduated on solid silver to half-degrees, vernier reading to one minute.
Instrument complete, with No. 5178 Split Tripod, etc. 170 00
5160. Engineer's Railroad Transit, as described under No. 5140, but with **vertical limb 5 in.** diameter, graduated on solid silver to half-degrees with vernier reading to one minute.
Instrument complete, with No. 5178 Split Tripod, etc. 175 00

For extra fine Engineer's Transits see pages 353, etc.