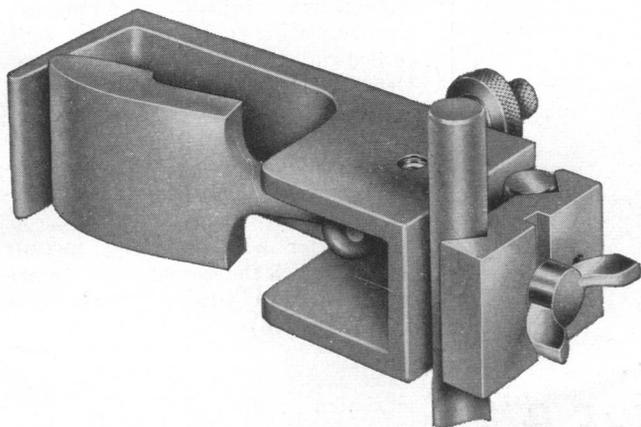


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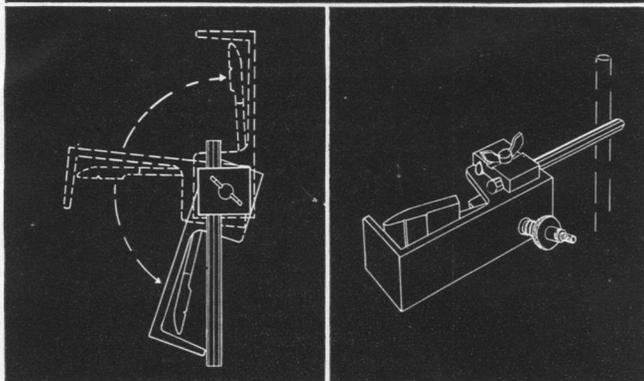
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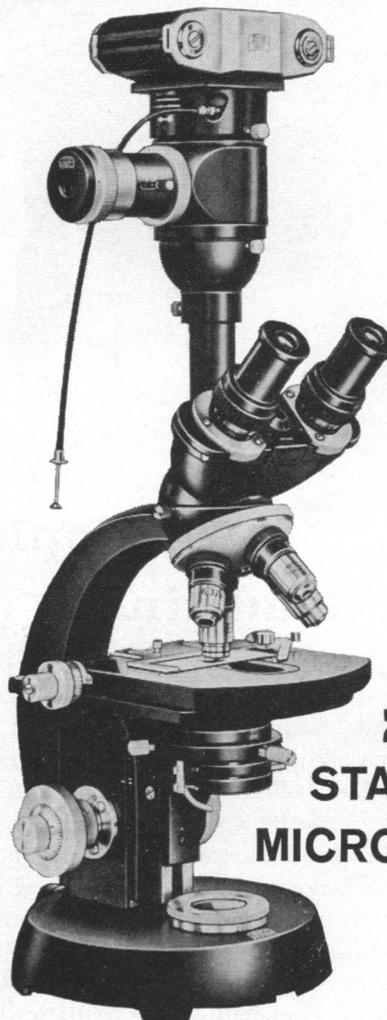
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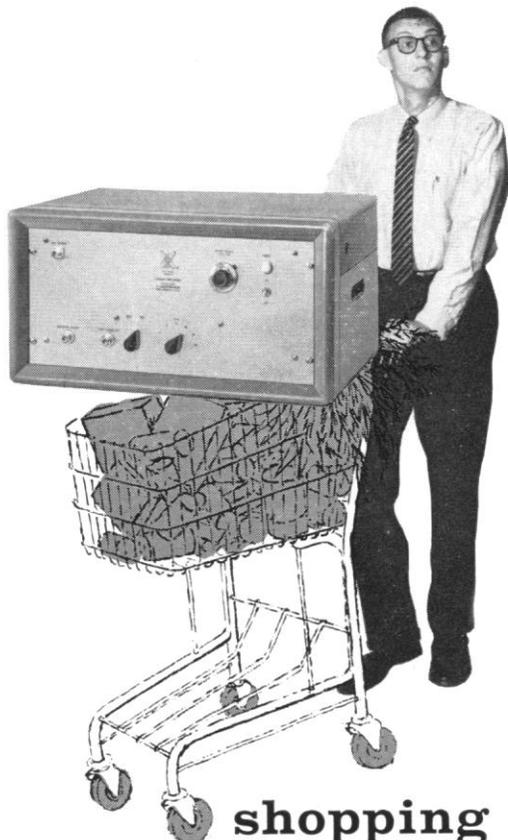
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Equipment

The information reported here is obtained from manufacturers and from other sources considered to be reliable. Science does not assume responsibility for the accuracy of the information. A coupon for use in making inquiries concerning the items listed appears on page 738.

■ **TESTING MACHINE** of 100-lb capacity is accurate within ± 0.5 percent of indication. Tensile, compression, transverse, or shear tests can be performed. Load measurement is provided by a calibrated pendulum. Draw-bar speeds up to 20 in./min are selectable. Standard grip clearance is $1\frac{3}{4}$ in. Output is a recorded curve. (W. C. Dillon & Co., Inc., Dept. 354)

■ **RING LIGHT SOURCE** is designed to produce "cold light" shadowless illumination of small objects for low-power microscopic inspection. The light is 2.5 in. in diameter with a $\frac{1}{4}$ -in. aperture through which the specimen may be observed. (Aristo Grid Lamp Products Inc., Dept. 356)

■ **SOIL CONSOLIDATION TESTER** applies a maximum pressure of 20 kg/cm² on a specimen 2.5 in. in diameter. Accuracy of the counterbalanced lever system used to adjust the load is ± 0.5 percent. The apparatus is portable. (Soiltest Inc., Dept. 358)

■ **PULSE-HEIGHT ANALYZER** consists of a 100-channel analog-to-digital converter and 20 channels of glow-transfer-tube storage. Any 20-channel group may be selected for data storage by means of a single switch setting. Linearity is 0.5 percent, and dead time is 500 μ sec. The instrument contains all components necessary for a complete scintillation spectrometer except a phototube and crystal. (Tullamore Electronics Lab., Dept. 359)

■ **GLOW-DISCHARGE UNIT** for cleaning surfaces preparatory to vacuum coating is capable of delivering 400 ma at 5000 v d-c. This output is large enough to permit use in a 48-in. coater. Current is limited by a transformer that delivers approximately 90 percent of input power at full load. (Consolidated Electro-dynamics Corp., Dept. 360)

■ **PRINTER** accepts parallel or serial input and prints from six to nine columns of digits in one or two copies. Output rate from parallel input is three lines per second; from serial input, four digits per second. An optional feature provides that the line to be printed is visible before and after printing. Paper slippage is less than $\frac{1}{16}$ in. in 20 consecutive horizontal lines. The first copy can be torn off at any time. (Taller and Cooper Inc., Dept. 361)

■ **RECORDING POTENTIOMETER** can be adapted to handling from 2 to 24 channels by means of plug-in adapter units. Change to a different work load requires changing a plug-in unit, a dial indicator, and a print wheel. According to the manufacturer, this change can be completed in 3 min. Adaptation to various transducers and change of range can also be simply accomplished. Accuracy is 0.25 percent. (Weston Instruments Division, Daystrom Inc., Dept. 364)

■ **FLUTTERMETER** permits fine adjustment of recorder drives. To measure flutter, a prerecorded nominally 1000-cy/sec signal is played through the recorder. The fluttermeter amplifies frequency modulation of the signal by the recorder and indicates percentage of variation on its output meter in two ranges: 0 to 1.5 and 0 to 3.0 percent. Sensitivity is better than 30 mv. (Kay Electric Co., Dept. 365)

■ **ACID PUMP** of polyethylene attaches to 5-pt reagent bottle. Acid is delivered at 1000 ml/min by light, rapid squeezes of a plastic bottle that is part of the pump. Pressure on a relief valve stops flow without drip. (Fisher Scientific Co., Dept. 366)

■ **PERFORATED TAPE READER** is transistorized. The device will read five-, six-, seven-, or eight-level tapes at rates up to 1000 characters per second. Starting time is 3 msec, stopping time 0.2 msec. Tapes are read by photodiodes. (Potter Instrument Co., Inc., Dept. 362)

■ **MELTING-POINT APPARATUS** provides for simultaneous viewing of five capillary samples in a well-lighted, unobstructed field. A standard beaker is used as a container for the silicone-fluid heating bath. Electric heating is controlled by an auto-transformer. A compressed-air fitting permits connection to an air line for rapid cooling. Capillaries are vibrated to insure uniform packing of the sample, and an adjustable stirrer provides uniform bath temperature. (Arthur H. Thomas Co., Dept. 383)

■ **VACUUM LEAD-THROUGH TERMINAL** is comprised of a high-alumina ceramic insulator fused to a metal lead-through pin. The terminal is designed to be used with soft solders or with hard solders at temperatures up to 1400°F. Various pin configurations are available. (Thermo Materials, Dept. 371)

■ **RECORDER** plots "on" time against total time on a 6- by 14-in. chart mounted on a drum. An accessory base provides digital display of the same information. (Gorrell & Gorrell, Dept. 375)

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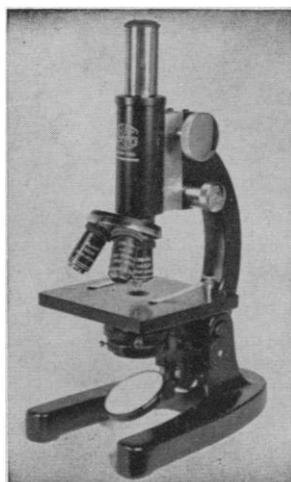
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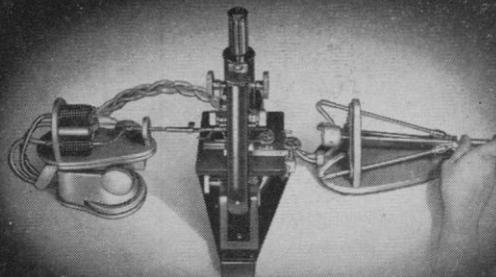


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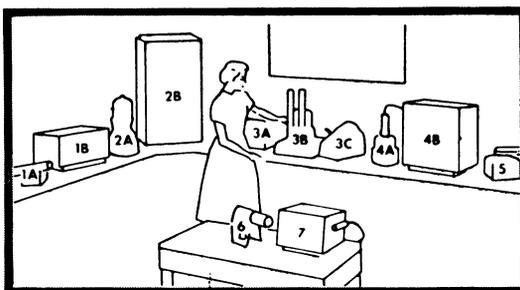
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