

strength. Vertical sash bars are bolt-T sections and in Lok-Bar joint the flat T horizontal muntins is threaded through the bulb. Hope's Windows, Inc., Hopkins Ave., Jamestown, N. Y.

L14 SKIN PROTECTION—Cellophane-like film of emulsified fats and oils protects industrial worker's hands from dermatitis. Rubbed into hands it permits work with non-aqueous skin-irritants and gives glove protection without the restriction. Cadet Laboratories, Worcester, 5, Mass.

L21 PARTS CLEANER—Portable, welded-steel unit on wheels has hinged drop leaves, tool tray for convenient work bench. Kellie Products, Inc., Box 2917, Terminal Annex, Los Angeles, 54, Calif.

L7 SOAP DISPENSER—Powdered-soap dispenser permits checking contents at a glance. Maker claims shock-resistant plastic withstands repeated hammer blows. L E Hilsa Co, 507 S Grove Ave., Oak Park, Ill.

L8 GUM SOLVENT—Non-corrosive gum solvent removes tars, gums and other binders that settle out in liquid fuel system, maker says. Maker also claims that Tank-Kleen serves as reconditioner or preventative. Dept 101 Celco Corp, 110 East 42nd St, New York, 17, N. Y.

L9 AIR HOSE NOZZLE—Heavy-duty nozzle No. 143-A has four quickly interchangeable nozzles: general purpose, adjustable, where blast must be controlled, wide flat nose, and long nose. Imperial Brass Mfg Co, 1200 W Harrison St, Chicago, 7, Ill.

L10 SOLDER—Paste-form single-application solder covers three ranges. 200 to 500 F, 500 to 750 F and 1150 to 2000 F. Application performs cleaning and fluxing, tinning and soldering. Fusion Engrg, 1836 Euclid Ave, Cleveland, 15, Ohio.

L11 FIRE EXTINGUISHER—Carbon-dioxide unit comes with wall bracket for mounting near machines, equipment or materials. Power-Pak Products, Inc., Buffalo, 2, N. Y.

L12 ENTRAINING AGENT—Greater sealing resistance, longer flexural strength come from entraining about 3 to 5% of air in concrete, according to maker. A C Horn Co, 43-36 Tenth St, Long Island City, N. Y.

L30 CUTTING TORCH—Cutting torch Stylo 9016 available in 21- or 36-in. lengths, equipped with a 90-deg torch head. Cuts stainless steel using Atco's Flux-Injection process. Constructed with M-steel head, stainless-steel tubes, stainless-steel lever and ribbed handle. Remote control cutoff automatically coordinates flux feed with cutting oxygen to eliminate separate flux control. Air Reduction Sales Co, 60 E 42nd St, New York 17, N. Y.

L28 MASONRY DRILL KIT—Metro carbide masonry drills are available in a handy kit of six of the most commonly used sizes, 5/16, 1/4, 5/16, 3/8, 1/2 and 5/8 in. covering a wide range of applications. Leatherette case, durably constructed, protects the

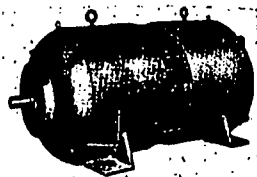


drills. Comes complete with operating instructions. Metro Tool & Gage Co, 4240 Peterson Ave, Chicago 3, Ill.

L29 HAND-POWERED CUTTERS—Redesigned line of hand-powered cutters have curved toe-in handles, broad, rounded palm-fit grips, no protruding screws or bolts, metal safety handle stop, 30% greater tool strength in sections and handles, jaws plainly marked showing capacity and type of metal safety cut. Will cut bolts, rods, wire, cable, chain, bars and metals of all kinds. H K Porter, Inc., Somerville, Mass.

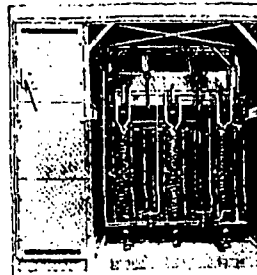
MOTORS AND SWITCHGEAR, OTHER ELECTRICAL EQUIPMENT

M1 TOTALLY ENCLOSED MOTOR—Fan-cooled, totally enclosed squirrel-cage motor is rated at 350 hp and 3600 rpm. Having normal starting torque, motors are suitable for full-voltage starting. Available for 2- or 3-phase operation, on 50 cycles, 440, 550 or 2300 volts, they are specially designed for locations having excessive moisture or dust. Windings are completely enclosed, and double-end ventilation assures maximum uniform cooling. Similar motor available with speeds of



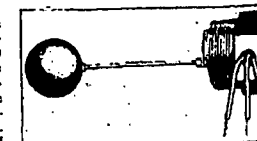
1800 rpm and lower, equipped with either sleeve or ball bearings. Burke Electric Co, Erie, Pa.

M2 LOAD-CENTER TRANSFORMER—Dry-type Class B insulated load center transformer is for plant power-distribution circuits. Units are housed in paneled enclosures for indoor installations. Compartments for primary and secondary switchgear can be furnished to form com-



plete unit substation. Core and coil cooled by exposing as much radiating surface as possible to the air. Insulating materials used are mainly Class B; Class C materials provided where extra strength is needed. Wagner Electric Co, 6400 Plymouth Ave, St. Louis, 14, Mo.

M3 FLOAT SWITCH—Magneswitch is magnetic proximity switch with Alnico permanent magnet. Single-pole, double-throw switch has no mechanical linkage with float part of mechanism. Provides snap-action control for liquid-level installations. Switch handles ac motors up to 1/4 hp. Standard units include models designed for open or closed vessels and for internal pressures up to 600 psi and temperatures up to 700 F. All exposed parts are of noncorrosive material, making unit suitable for wide variety of liquids. Special materials can be sup-



plied for units required to work with chemicals or other corrosive liquids. Magneswitch, Inc., 4261 S. Western Ave, Chicago, 9, Ill.

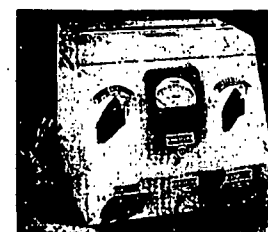
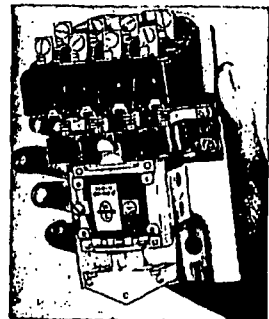
M43 TEST LEADS—In conventional red and black color, these test leads are made in 48-in. retracted lengths that will extend to 20 ft. The 48-in. retracted coil may be cut into any desired length. Any type of test lead terminals may be used with these leads. Kollid Korda, Inc., Box K, Hamden, Conn.

M44 PLUG-IN PANELBOARD—Plug-in features of this panelboard permit easy and quick removal or insertion of multi-breaker units for future changes in circuit ratings or for additional circuits. High-speed cut-less magnetite and thermal trip of MO4 breaker gives adequate time lag for starting motors and tungsten lamps inrush current. It trips as fast as one-hundredth of a second at current values slightly above operating range. NMO panelboards are furnished 100- and 200-amp main-circuit ratings, 120/240-v ac with 15-, 20-, and 30-amp circuits. Square D Co, Detroit, 11, Mich.

M6 MILL MOTOR—Motor reduced in size by one frame size because of larger and more efficient armature that fits within limiting dimensions. Other reducing features are new roller bearings and redesigned field coils. Type MC motor available in sizes from 5 to 200 hp, voltages of 230 and 550, and in AISE dimension frames 602 to 618. Westinghouse Electric Corp, Box 2025, Buffalo, 5, N. Y.

M26 LAMP BALLAST—Designed for greater flexibility in planned lighting, two groups of ballasts for Slimline fluorescent lamps available in both single-lamp- and Fulamp high power factor units. General Electric Co, Schenectady, N. Y.

M9 SOLENOID CONTACTORS—Units are adapted for machine tools, air-conditioning equipment, pumps and compressors, etc. They are designed for use as main-line reversing or accelerating contactors on ac motor controllers. Ward Leonard Electric Co, 6 South St, Mt. Vernon, N. Y.



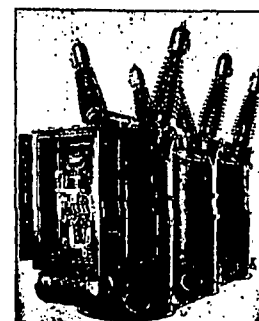
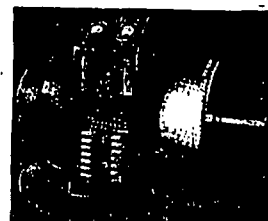
M10 DC AMPLIFIER—Microsen unit measures and amplifies minute power impulses, using electro-mechanical balance. This gives output signal directly proportional to input signal. Input measure and output stabilized through a feedback circuit. Manning, Maxwell & Moore, Inc., Bridgeport, 2, Conn.

M25 CAPACITOR MOTOR—Fractional horsepower motors have triple-seal windings and high-starting-torque characteristics. Rotor is all-welded copper-bar construction. Available in ratings of 1/6, 1/4, 1/3, and 1/2 hp, single phase, 60 cycle, 115-230 v. Torq Electric Mfg Corp, 1091 Interstate Road, Bedford, Ohio.

M4 RESISTOR—Edgethm, edge-wound resistor is designed for starting, dynamic braking, field discharge and plugging. Unit is suitable for dc or ac-motor controllers and other intermittent-duty high current applications. Ward Leonard Electric Co, 6 South St, Mt. Vernon, N. Y.

M31 VOLTAGE TESTER—Designed for testing continuity of either ac or dc circuits, this unit shows ranges from 110 to 550-v ac and 110 to 600-v dc. Also indicates blown fuses, grounded side of line, excessive leakage to ground, etc. Tester has easy-to-read scale and is calibrated from 110 to 600 v. Ideal Industries, Inc, 1025 Park Avenue, Sycamore, Ill.

M46 PACKAGED GENERATOR—Unit is compact, factory-assembled generator including revolving-field generator, direct-connected exciter, automatic voltage-regulating circuit, meters and selector switch for presetting voltage. Electric Machinery Mfg Co, Minneapolis, 13, Minn.



M19 CIRCUIT BREAKER—Redesigned for ratings from 115 to 230 kv and up to 3,500,000 kva interrupting capacity, improved line meets requirements for reliable, high-voltage transmission line circuit-breaker protection. Type B20-160 is improved line of high-voltage, high-speed, quick-clearing (5-cycle) outdoor, floor-mounted oil circuit breaker. Unit recloses service within 20 cycles and includes single-brake 5-cycle Raptor arc extinguishing device and pneumatic operator with self-contained automatic air-supply system. Allis-Chalmers Mfg Co, Milwaukee, Wis.

M5 GROUND CONNECTORS—Type CAR ground connector features cross-groove design that permits connecting ground bus either parallel or at right angles to driven rod or pipe. Units supplied for sizes from 1/4-in. rod to 6-in. iron pipe size and No. 8 solid conductor to 750 mm ground conductor. Barnard Engrg Co, 107 Bruckner Blvd, New York, N. Y.

M7 SELENIUM RECTIFIER—Maintaining constant voltage regardless of changing amounts of current drawn from it, rectifier operates on varying loads from 0 to 20 amp with no appreciable variation in voltage. De-voltage control maintains or

