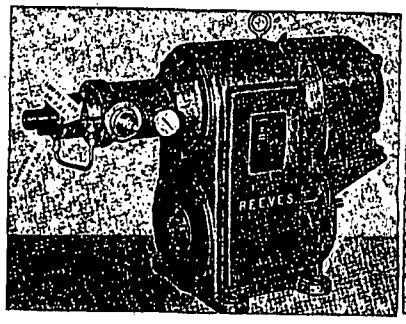
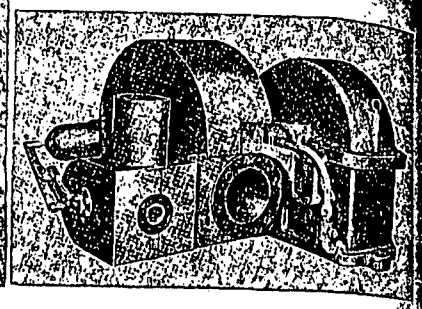
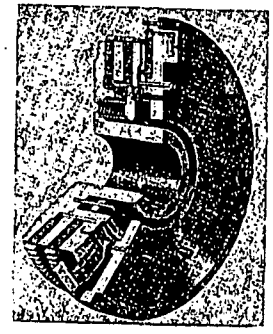




Variable Speed Drive Control

203 • Conoflow control cylinder added to Reeves motodrive permits control of liquid levels in open or closed tanks. It also makes possible automatic control for flow proportioning systems of liquid, gas, chemicals, etc., as well as pressure and temperature.

The Conoflow unit is available on integral horsepower vari-speed drives that use instrumentation air pressure of 3-15 psi.
Reeves Pulley Co, Columbus, Ind.



Air-Actuated Clutch

711 • Model PO is designed to handle higher torque capacity loads with more compactness than the company's previous lines of air-actuated clutches. Unit has lighter weight and narrower clutch width, can be installed in less shaft space, with closer shaft-bearing center distances.
Twin Disc Clutch Co, Rosine, Wis.

Spacer-Type Gear Coupling

421 • New coupling makes it possible to remove hubs from either shaft without disturbing mountings of connected units. Unit consists of flexible hubs on both driver and driven shafts. Spacer has specially designed teeth at either end, cut so they mate with each sleeve in a spline fit. Connections have no angular or off-set flexibility, but allow for end-float.
Sier-Bath Gear & Pump Co, Inc, 9252 Hudson Blvd, North Bergen, N. J.

New Wire Ropes Have Plastic or Spring Cores

803 • Solid plastic-core wire ropes serve some conditions better than hemp-center ropes. Except for the core, they are similar to ordinary wire ropes.

The plastic core is not affected by moisture, acid, caustics or other destructive agents found in many applications and the cores retain their resiliency over a long period.

Another new wire rope made by the same company has a closely-coiled steel spring for its core. The spring gives greater strength against crushing, plus the flexibility of a hemp core.

Because of the hollow spring center this rope can hold a large amount of lubricant, keeping inner parts from rusting and wearing. It returns readily to original shape and diameter when unloaded.
Jones & Laughlin Steel Corp, Gateway Center, Pittsburgh 30, Pa.



Split-tapered Bushing

750 • Interchangeable split-tapered bushing allows use of the same size sprockets on shafts from ½ to 2½ in. diameter, in steps of 1/16 in. *Shold-a-grip* bushing is drawn into tapered hole in the sprocket by tightening cap screws.
Boston Gear Works, 14 Hayward St, Quincy 71, Mass.

High-Speed Reduction Gears

150 • *New line of high-speed* reduction gears for mechanical-drive turbines are available in built-in or coupled designs. Built-in gears include Elliott turbine and gear case firmly secured together, with turbine wheels and pinion mounted on same shaft. This eliminates exhaust-end bearing and coupling, permitting a compact unit. Coupled design is a self-contained gear unit flexibly coupled to a separate turbine drive.
Elliott Co, Advertising Dept, Jeannette, Pennsylvania

Over-Running Clutch

852 • New sprag-type clutch with centrifugal throwout sprag assembly rubbing between the sprags and the inner race, can operate at speeds exceeding 3000 rpm.

Unit consists of four basic parts: outer housing, inner race, sprags, energizing springs. Manufacturer claims backlash is eliminated, maximum torque capacity is assured.
Formsprag Clutches, 23601 Hoover Rd, Van Dyke, Mich.

Roller Chain Sprockets

940 • New line of roller chain sprocket wheels has taper-lock bushings to facilitate rapid installation and assure tight fit within normal range of shafting tolerances. Set screws force and hold split tapered bushing in tapered bore of the sprocket wheel.
Link-Belt Co 307 N Michigan Ave, Chicago 1, Ill.

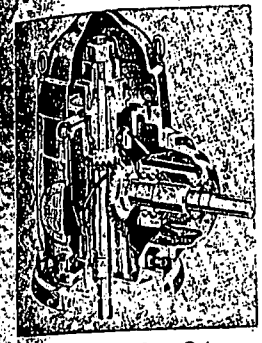
Bearings

1153 • New line of all-steel pillow blocks are fully self-aligning, with spherical outer race. They are available in both expansion and non-expansion types and have an adapter mounting. Double piston ring seals keep lubricant in and dirt out.
Dodge Mfg Corp, Mishawaka, Ind.

Magnetic Brake

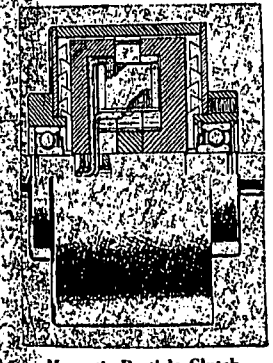
522 • Fractional-hp magnetic brakes for standard ac or dc motors have torque ratings of 1½, 3 and 5 ft-lbs. Brakes self-adjust for wear, but critical torque adjust-

...set can be made for precisely timed stops. ...Units have molded asbestos friction disks, ...and hand release.
...Brakes, Inc, 4740 W Electric ..., Milwaukee, Wis.



Right Angle Gear Drive

667 • New U.S. *Holloshaft* drive operates deep well pumps where electricity is not available or where gas can be used with gas, diesel or gasoline engine power up to 70 hp.
U.S. Electrical Motors, Inc, Box 2058, Los Angeles 54, Calif.



Magnetic Particle Clutch

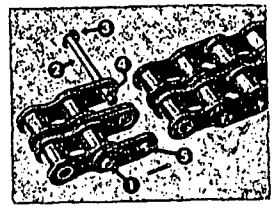
635 • *Dynamatic* drive consists of two independent rotating members, a driving element and a driven element. The two members are separated by a space filled with small ferro magnetic particles (stainless steel). When one member is energized, the particles polarize and bind together, binding the rotating members together with a proportional force.
Clark Mfg Co, 1830 E 38th St, Cleveland 14, Ohio

The Showcase of New Equipment

Variable Speed Drive

1231 • Components of this variable speed drive are: (1) variable pitch motor sheave (2) set of wide range belts (3) companion sheave (4) slide motor base. *Dodge* taper-lock principle in bushing for both sheaves contributes greatly to the rapidity and ease of speed changes.

Pitch diameter is changed by a one-point adjustment and can be set accurately.
Dodge Mfg Corp, Mishawaka, Ind.



Riveted Roller Chain

751 • Improved riveted roller chain is supplied in ASA standard and heavy series, 1 in. through 2½ in. pitch sizes, in multiple widths. It features exclusive single-pin coupler.

One end of coupler link is riveted to adjacent link. Other end contains the coupler pin. One end of pin is spun over washer, other has milled flat and locking pin hole. Pin is an easy fit, except for the milled flat end which is press-fitted into coupler link plate.
Baldwin-Duckworth, Div of Chain Belt Co, Springfield 2, Mass.

Worm Gear Speed Reducer

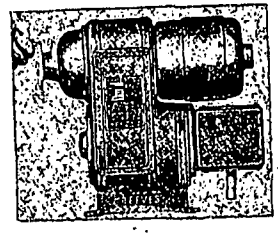
854 • *Type Aat* speed reducer incorporates automatic and instantaneous shut-off device for overload protection. Known as double torque control, this feature is claimed to eliminate need for a shear-pin coupling. Direct mechanical action cuts off current when load limit is reached.
Philadelphia Gear Works, Inc, Venango & G Sts, Philadelphia 34, Pa.

Right-Angle Gear Drive

1129 • Completely dust and weather proof, this right-angle gear drive comes in wide variety of types, sizes and ratios. It offers adaptability in dual, multiple or combination operation from 15 to 450 hp.
Johnson Gear & Mfg Co, 8th & Parker Sts, Berkeley 10, Calif.

TELL ME MORE!

We'll ask the maker to send details. Just fill out cards on pages 223 and 249

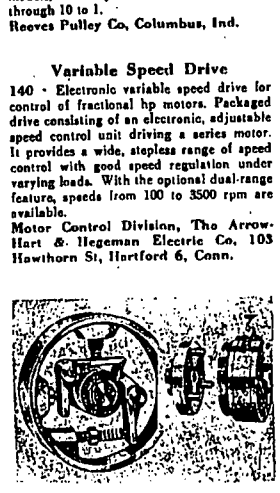


Variable Speed Drive

456 • Fractional-hp varispeed *Motodrive* with right angle reducer combines in one unit any standard NEMA frame, type C face-mounted motor; Reeves speed-varying mechanism; and new right angle worm gear reducer. Available in horizontal or vertical models, with speed ratios from 2 to 1 through 10 to 1.
Reeves Pulley Co, Columbus, Ind.

Variable Speed Drive

140 • Electronic variable speed drive for control of fractional hp motors. Packaged drive consisting of an electronic, adjustable speed control unit driving a series motor. It provides a wide, stepless range of speed control with good speed regulation under varying loads. With the optional dual-range feature, speeds from 100 to 3500 rpm are available.
Motor Control Division, The Arrow-Hart & Hegeman Electric Co, 103 Hawthorn St, Hartford 6, Conn.



Overload Release Clutch

634 • New clutch has instantaneous trigger action and is designed to allow machines to resume operation at the exact cycle point of release. Unit is permanently lubricated.
Overload Release Clutch Co, Inc, Dept E, 1162 Stuyvesant Ave, Irvington, N. J.