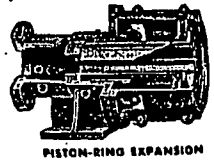
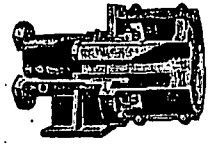
ADSCO

America's most complete line of Expansion Joints



PISTON-RING EXPANSION JOINTS

An outstanding joint. Piston-Rings hold the line pressure. No shut-down for servicing.



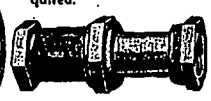
INTERNALLY - EXTERNALLY GUIDED JOINTS

Fully guided in all positions of the slip. Ideal where long traverse is required.



INTERNALLY GUIDED JOINTS

Minimum overall size for tunnels and other jobs where space is limited.



ALL-BRONZE RISER JOINTS

Eliminate bends, complicated piping and costly "swing" joints. Write for Catalog 35.

AMERICAN DISTRICT STEAM CO.

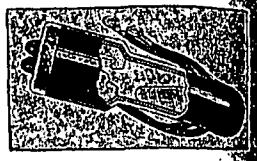
NORTH TONAWANDA, N. Y.

SINCE 1877

ADSCO
Representatives in following cities.

ALABAMA
Birmingham 3-1498
CALIFORNIA
Los Angeles, Capital 1-9135
San Francisco, Kilpatrick 6000
COLORADO
Denver, Keystone 8111
Grand Junction 2543
Pueblo 2545
GEORGIA
Atlanta, Lamar 2871
ILLINOIS
Chicago, Andover 1090
Moline 1567
INDIANA
Indianapolis, Riley 1936
IOWA
Cedar Rapids 3-2227
Des Moines 3-2231
KENTUCKY
Louisville, Shawnee 9019
LOUISIANA
New Orleans, Bay. 1984
Shreveport, 3-1741
MARYLAND
Baltimore, Plaza 7531
MASSACHUSETTS
Boston, Hubbard 2-8333
Longmeadow, Springfield 2-8325
MICHIGAN
Detroit, Tyler 2-8222
Kalamazoo 3-5367
MINNESOTA
Duluth, Melrose 22394
St. Paul, Garfield 5811
MISSISSIPPI
Jackson 6-7689
MISSOURI
Kansas City, Har. 1737
St. Louis, Forest 9400
NEBRASKA
Omaha, Jackson 7626
NEW YORK
N. Y., Penn. 6-9277
Syracuse, 3-5397
NORTH CAROLINA
Charlotte, 3-7728
NORTH DAKOTA
Fargo, 4291
NEW MEXICO
Albuquerque, 5369
OHIO
Cincinnati, Univ. 8420
Cleveland, Prospect 4108
Columbus, Evergreen 7239
Dayton, Fulton 2115
Middletown, 3-5367
OKLAHOMA
Tulsa, 4-2902
OREGON
Portland, Atwater 2875
PENNSYLVANIA
Philadelphia, Locust 4-2080
Pittsburgh, Atla. 6063
RHODE ISLAND
Providence, Dexter 4190
SOUTH CAROLINA
Greenville, 3538
SOUTH DAKOTA
Sioux Falls, 6811
TENNESSEE
Knoxville, 3-9315
TEXAS
Dallas, Harwood 6271
Ft. Paso, Main 1787
Houston, Hadley 9214
Lubbock, 3-4330
San Antonio, Lambert 3-9621
UTAH
Salt Lake City, 4-6431
WASHINGTON
Seattle, Elliot 6430
WEST VIRGINIA
Charleston, 47-145
WISCONSIN
Milwaukee, Kilb. 5310
WYOMING
Casper, 1656
MANITOBA, CAN.
Winnipeg, 22-841
ONTARIO, CAN.
Toronto, Rand. 8186
QUEBEC, CANADA
Montreal, Lane. 1823
HAWAII
Honolulu, 6401
PUERTO RICO
San Juan, 2-8478
ARGENTINA
Buenos Aires, Belgrano 966
MEXICO
Mexico City, 12-58-08

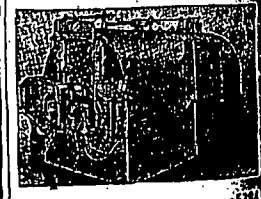
and sediment in fuel, and its gravity can be made in one-half hour per week engine; routine use establishes continuous record of lube-oil condition. Change in rate of contamination proves, it is claimed, a sensitive indicator of conditions inside the engine and forecasts early coming need for preventive maintenance, particularly with respect to fouling of injection nozzles and the start of piston-ring gumming. Cello Corp, Red Bank, N. J.



Mercury Switch

HYDROGEN GAS sealed under pressure in this mercury switch kills the usual arc between mercury and contact points as the device opens. As a result, corrosion of electrodes is essentially eliminated. *Metal case of the Durakool* acts as one electrode, simplifying construction of switch.

Ranging in capacity from 1 to 65 amp, switches are made with or without plastic cases as standard equipment. Switches are suitable for service in high capacity, highly inductive circuits, or where variable loads place undue strain on ordinary units. Durakool, Inc, Elkhart, Ind.



Steam Generator

SPACE-SAVING CHANGES in the *Econo* steam generator reduce over-all height by 24 in. and length by 18 in. Condensate receiver and makeup water tank have been removed from boiler casing. In addition to space saving, manufacturer states it permits introducing preheated secondary air direct to furnace. Lowering of boiler shell is further claimed, eliminates some draft resistance, lowers required fan speed, gives quieter operation. C H Dutton Co, Gibson St, Kalamazoo, Mich.

Lighting Calculator

FOLLOWING SLIDE-RULE DESIGN, the *Light-or* includes all technical information necessary to make illumination calculations either by the lumen or point-by-point methods.

No regular slide rule is required with its use nor are additional tables or charts needed for lumen-method calculations.

Timken® bearings on crankshaft do big job for small engine

THE Hallett Manufacturing Company of Inglewood, California, uses Timken tapered roller bearings on the crankshaft of their single cylinder and two cylinder 4-cycle Diesel engines with these results:

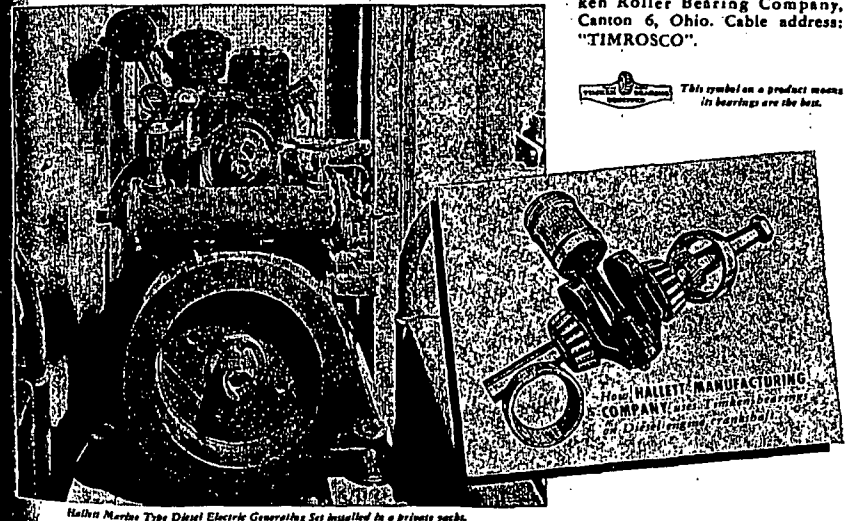
Smoothness of operation is assured; wear on the crankshaft is eliminated; no extra thrust bearings or washers are needed; crankshaft and connecting rod are held in rigid alignment.

Timken bearings are designed and manufactured to last the life of the engine. Due to their tapered construction, they carry radial and thrust loads in any combination . . . without deflection or end-movement.

The rolls and races of Timken bearings are made of Timken fine alloy steel for toughness—then case-hardened to give them wear-resisting surfaces. The line contact between rolls and races provides maximum load-carrying capacity. Because Timken bearings are manufactured to extreme precision and finished to almost incredible accuracy, friction is eliminated.

Over the years, the dependable performance and continued advertising of Timken bearings have made Timken-equipped products first choice throughout all industry. Timken bearings in your product add a valuable sales feature. They build greater acceptance for your product among customers. So when you specify bearings for new equipment, always look for the trade-mark "Timken". The Timken Roller Bearing Company, Canton 6, Ohio. Cable address: "TIMROSCO".

This symbol on a product means in bearings are the best.



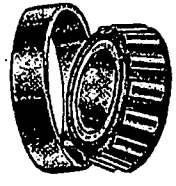
Hallett Marine Type Diesel Electric Generating Set installed in a private yacht.

TIMKEN BEARING CAPACITY RATINGS INCREASED 25%.

Since Timken bearings were re-rated some 15 years ago there has been such a further and constant improvement in quality that we are now able to announce a 25% increase in radial and thrust load carrying capacity. This may make possible the use of smaller bearings with savings in bearing cost, material cost and weight. Engineers will be able to utilize the advantages of Timken bearings in more applications than in the past.

A new Timken Engineering Journal, now in preparation, will give you complete capacity rating tabulations. For further assistance, write us today.

TIMKEN
TRADE-MARK REG. U. S. PAT. OFF.
TAPERED ROLLER BEARINGS



IT JUST A BALL ○ NOT JUST A ROLLER ⊂ THE TIMKEN TAPERED ROLLER ⊃ BEARING TAKES RADIAL ⊕ AND THRUST —⊕— LOADS OR ANY COMBINATION —✳—