

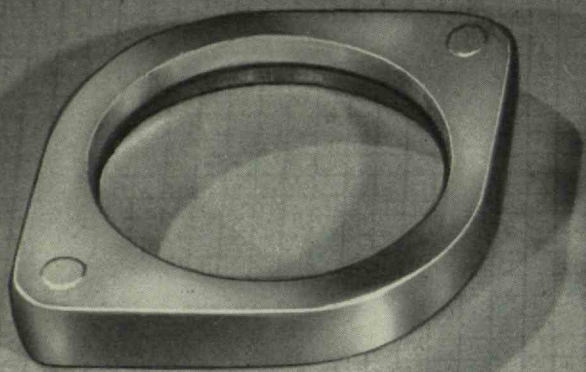
December 1947

TECHNOLOGY REVIEW

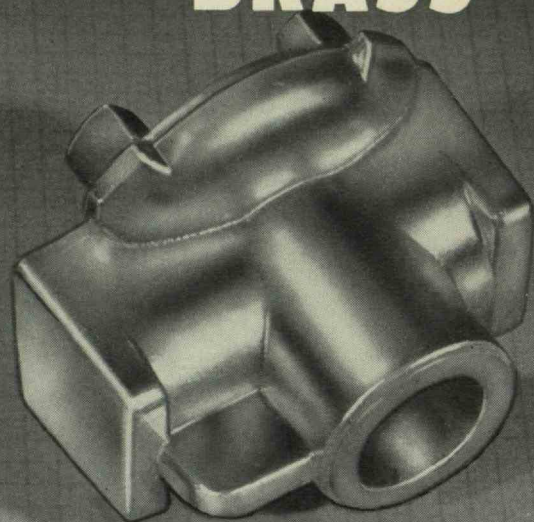
Title Reg. in U. S. Pat. Office



ALUMINUM

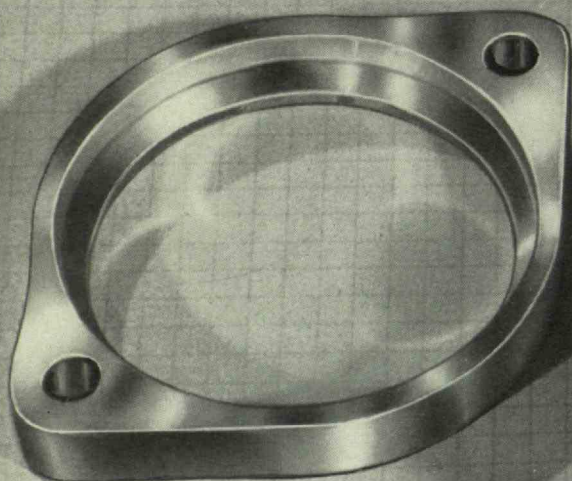


BRASS

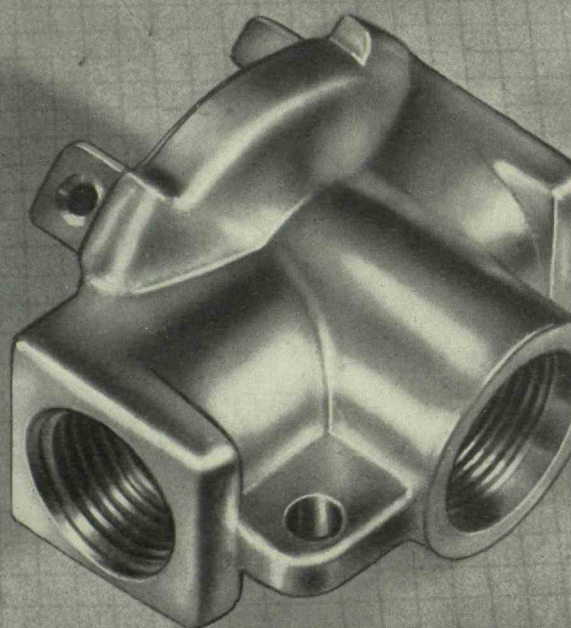


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THE

HARVEY

METAL CORPORATION

HAROLD B. HARVEY '05 • *Engineers & Manufacturers* • SHERRY O'BRIEN '17

74th STREET and ASHLAND AVENUE • CHICAGO 36, ILLINOIS

FORGINGS IN ALUMINUM • BRASS • BRONZE • COPPER • MAGNESIUM • MONEL • ALLOYS

MACHINING FACILITIES



"POLY-LITE"

EXTRUDED POLYSTYRENE SIDE SHIELDS BY SANDEE

PLASTICS have long been recognized as a potential factor in reaching the ultimate in fluorescent lighting. Early trials failed however, because of either unsuitable materials, methods of fabrication, or both.

During the past three years Sandee has developed Polystyrene extrusions to a high degree of efficiency. Today, under the trade name "POLY-LITE" Sandee is manufacturing extruded Polystyrene Side Shields in ever increasing sizes and

complicity of shapes. We are constantly adding more and more to the aesthetic and functional qualities of efficient modern fluorescent lighting.

The superior characteristics of Polystyrene in combination with Sandee extrusion technology is unsurpassed in guaranteeing the maximum in modern lighting efficiency! This combination is available to you on request in developing your individualized fixtures.

"POLY-LITE" IS A GUARANTEE OF QUALITY

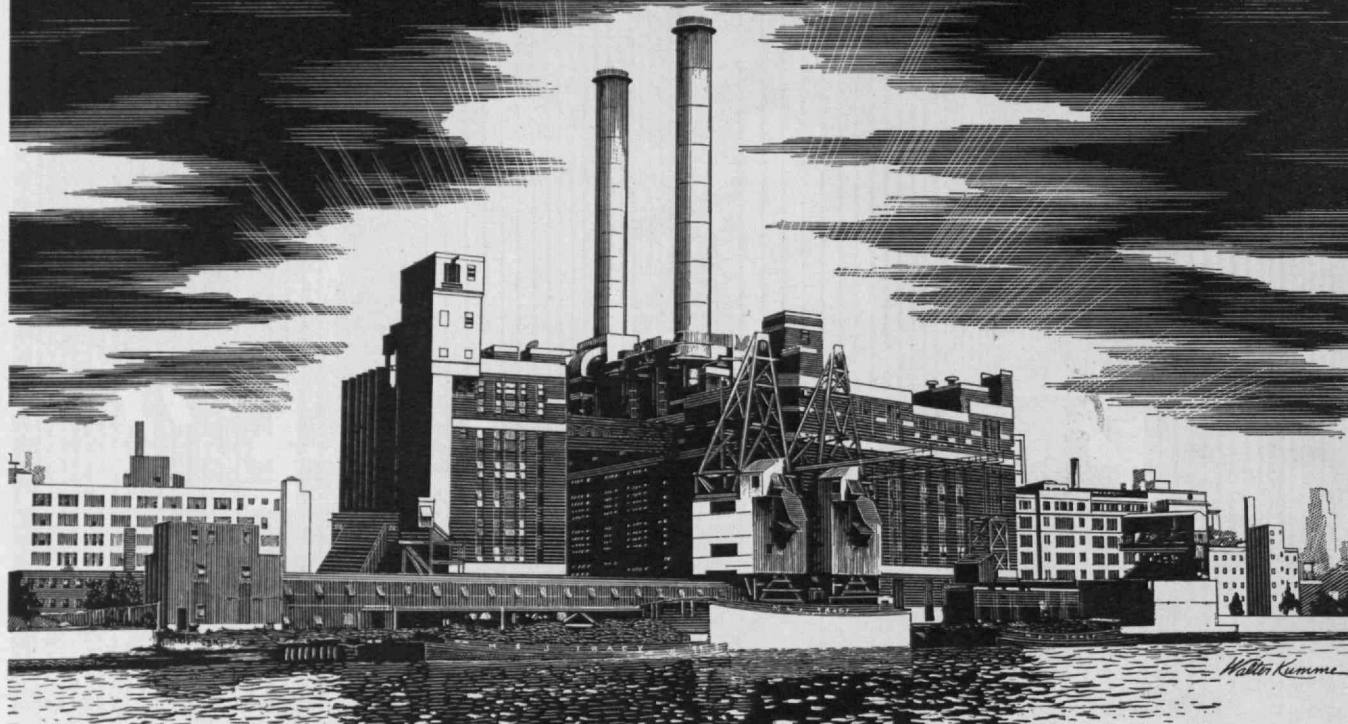
SALES REPRESENTATIVES IN 19 PRINCIPAL CITIES

Sandee Manufacturing Company

5050 FOSTER AVENUE • CHICAGO 30, ILLINOIS

EXTRUDED PLASTICS AND SPECIAL TOOLS

History-making power stations



No. 4 — *East River Station* — CONSOLIDATED EDISON COMPANY OF NEW YORK, INC.

On November 23, 1926, Queen Marie of Rumania officially opened an electric generating station that made power history from its outset.

East River Station, located at the foot of 14th Street on the East River, was planned in 1924 to assume the rapid load growth of lower Manhattan. It was one of the early users of the completely water-cooled furnace and the first station in the Metropolitan area to use pulverized coal. Its six original boilers, each having a capacity of a quarter of a million pounds of steam per hour, were among the largest in the world.

Hardly had East River begun operation when the need for further expansion became evident. Accordingly plans were made for the addition of three more boilers to be ready for service in 1929. They were the first boilers in the world to generate a million pounds of steam per hour. In fact one unit has been operated at a rate of 1,270,000

pounds of steam per hour — still the highest rate on record. Some idea of the size of such a boiler may be had from the fact that a luncheon for 90 people was held in the furnace of one unit in celebration of its completion.

After eighteen years of service these boilers are still among the most efficient in the country and are also notable for their ability to burn any grade of bituminous coal available. The pulverized fuel equipment, water-cooled furnaces and air pre-heaters of the original installation and the three million-pound units, installed in 1929, are C-E design and manufacture throughout.

The long identification of Combustion Engineering equipment with history-making advances in steam generation at East River and other notable power stations is another reason for coming to C-E for your next boiler unit, whether your steam requirements be large or small.

These three factors are the unwritten plus-values in every C-E contract —

Knowledge — to solve today's, and tomorrow's, steam generating problems.

Experience — to interpret, from a world-wide background in every important industry, the specific needs of each installation.

Facilities — to manufacture complete steam generating units for every capacity from 1000 pounds of steam per hour up to the largest. B-147

COMBUSTION ENGINEERING

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Are You
Using?*

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Worcester 6, Mass.

Abrasive Products



Grinding wheels of ALUNDUM*, CRYSTOLON* and diamond abrasives; discs and segments; bricks, sticks and hones; mounted points; abrasives for polishing, lapping, tumbling and pressure blasting; pulpstones.

Grinding and Lapping Machines



A varied line of machines for production-precision grinding and lapping and for the tool room — including special machines for crankshafts, camshafts, rolls and car wheels.

Refractories



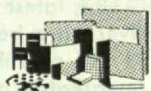
High temperature refractories — grain, cement, bricks, plates, tile, tubes — for metal melting, heat treating and enameling; for ceramic kilns; for boiler furnaces and gas generators; for chemical processes; refractory laboratory ware; catalyst carriers; porous plates and tubes.

Norbide*



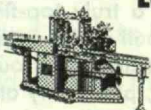
Trade-mark for Norton Boron Carbide — the hardest material made by man. Available as an abrasive for grinding and lapping; in molded products for extreme resistance to wear — especially effective for precision gage anvils and contact points; and for metallurgical use.

Norton Floors



ALUNDUM* Floor and Stair Tile, ALUNDUM* Ceramic Mosaic Tile and ALUNDUM* Aggregates to provide permanently non-slip (wet or dry) and extremely wear-resisting floor and stair surfaces.

Labeling Machines



Single and duplex automatic labeling machines for applying labels and foil to beverage bottles and food, cosmetic and drug containers.

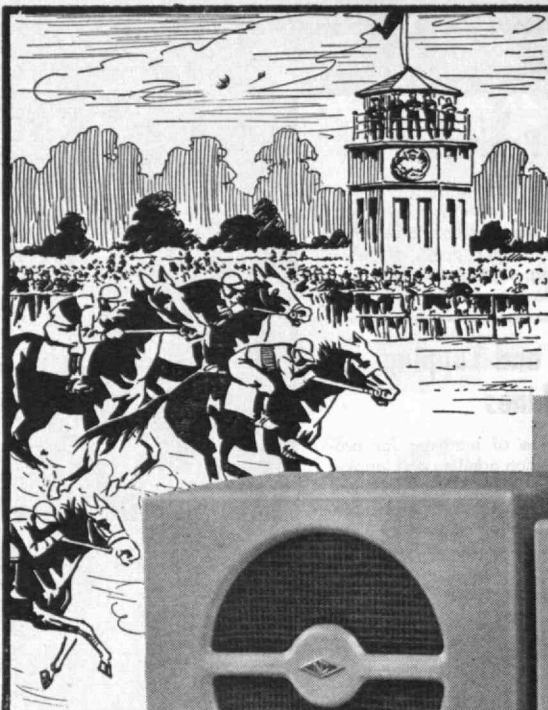
Oilstones and Coated Abrasives



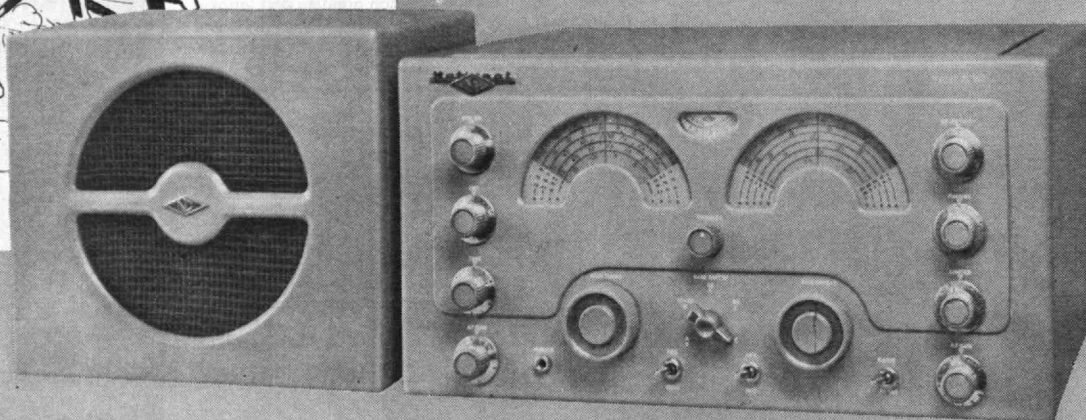
Sharpening stones and abrasive papers and cloth for every use of industry and the home craftsman. Products of the Norton Behr-Manning Division, Troy, New York.

*Trade-marks Registered U. S. Patent Office

NORTON



ANOTHER NATIONAL *FIRST* THE NC-183



FEATURES:

- Frequency coverage from 0.54 to 31 Mc Plus 6 meter band. Band-switching on all frequencies.
- Adjustable sensitivity control for S-meter operation on either c.w. or phone.
- Automatic adjustable threshold double-diode noise limiter.
- 115 volts 50/60 cycle AC operation. Easily adapted to 230 volts.
- Amateur Net (Complete with 10" speaker)\$269.00

For the first time, a ham receiver incorporating *all* the latest innovations demanded by amateurs is now available at a reasonable price.

The NC-183, latest in National's great new line of communications receivers, is a band-switching set covering frequencies from 0.54 to 31 MC plus the 6 meter band. Two r.f. amplifier stages provide remarkable image rejection and the latest crystal filter aids in maintaining the highest degree of selectivity.

In addition, a stabilized voltage regulated circuit makes the NC-183 a truly top-flight performer on the highest frequencies. A push-pull audio output stage with separate 10" speaker affords excellent fidelity of output.

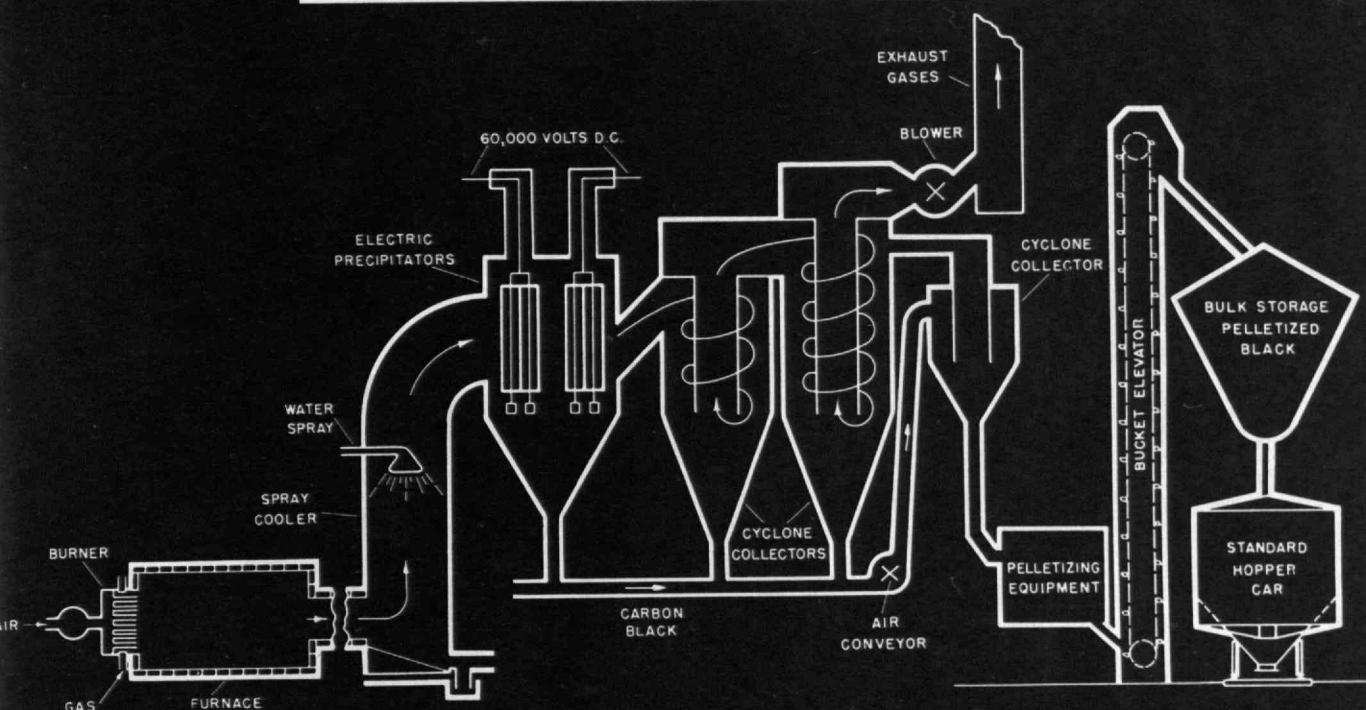
These, plus many other features, combine to make the NC-183 a really "hot" receiver. It will certainly become a strong favorite with those stations that specialize in digging DX out of the background.

See and hear the NC-183 at your nearest National distributor this week.

**National
Company, Inc.**
Dept. No. 18
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A world of technical know-how goes into the manufacture, shipment and delivery of every pound of Cabot furnace-type carbon black. From the first stage of manufacture to delivery in CABX cars, which were designed by Cabot engineers and built to their specifications, every pound of Cabot furnace-type black is under precise control, every hour of every day, every step of the way.

A new technical bulletin on bulk handling of furnace type black in manufacturers' plants is available.

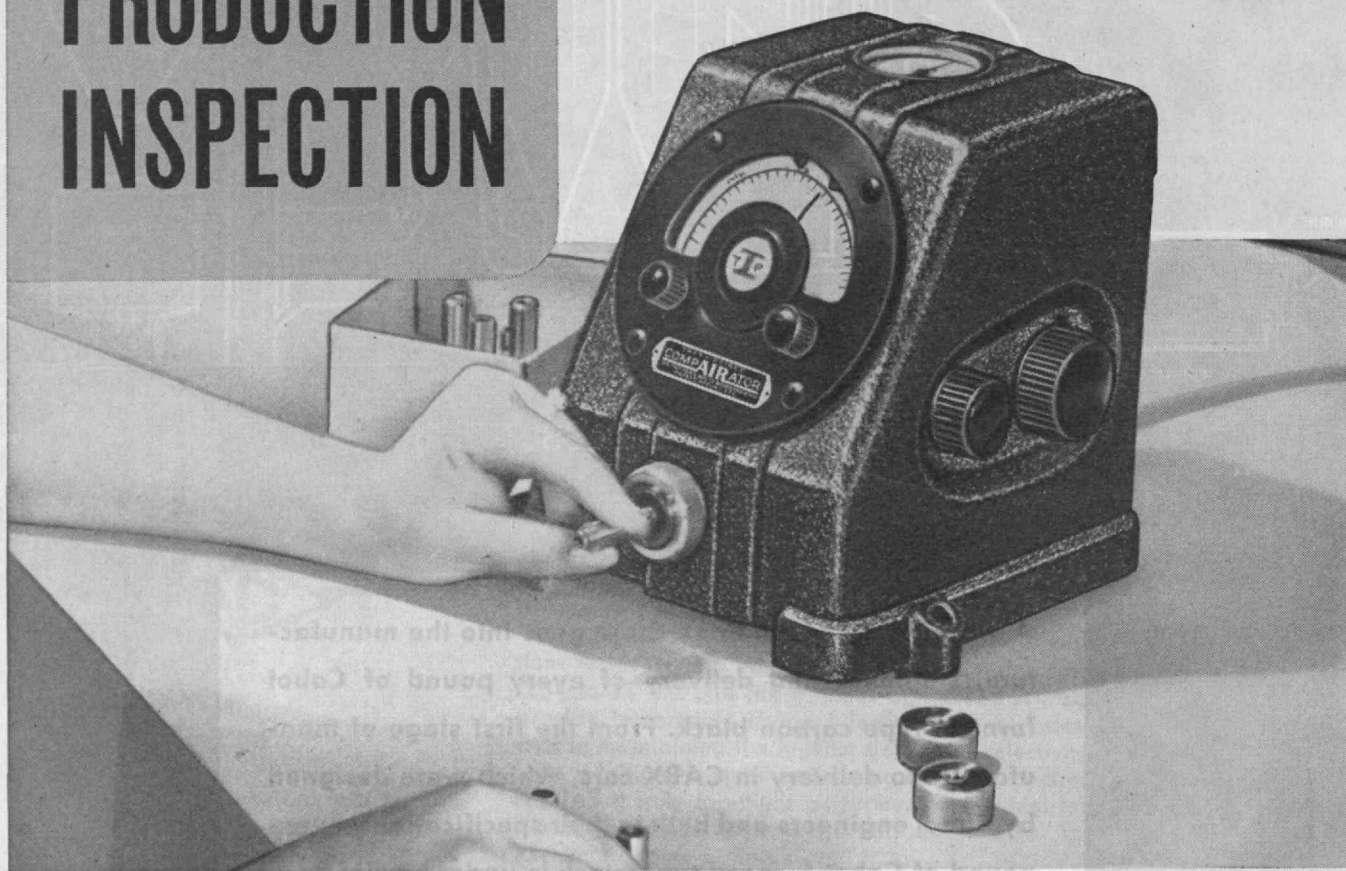


GODFREY L. CABOT, INC.

77 Franklin Street, Boston 10, Mass.

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Complete and self-contained to include regulator and filter, this modern air gage is 7" wide, 8½" deep, 8" high and weighs only 12 pounds.

All the operator has to do is to attach the hose to the air line. He needs no special skill to operate the gage, *which measures without mechanical contact*. He easily can check all variations such as taper, out-of-roundness, bell-mouth, and barrel-shaped conditions.

The T-P CompAIRator combines high sensitivity with easy readability. The dial indicator provides accurate readings, *free from pointer-flutter*.

Take the "air-way" to faster and more economical inspection at the machine, at the bench, or in the inspection room. Write for illustrated bulletin on the new CompAIRator to The Taft-Peirce Manufacturing Co., Woonsocket, Rhode Island.



T-P means TOP PRECISION

Use TAFT-PEIRCE Gages for Every Gaging Need...



MAGELLAN MIGHT HAVE MADE IT

IN 1519, Ferdinand Magellan set sail in five antiquated vessels in an attempt to circle the globe. He died before the voyage was completed although one of the ships did win through after three years of hardship. With power, even in its most elementary form, Magellan might have lived to see the success of his great adventure.

It was nearly three centuries until the successful voyage of "Fulton's Folly" proved that power at sea was practical. Since then, it has made giant strides of progress and in a short half century, Diesel engines have found an ever-growing usefulness.

Today, internal-combustion engines of all kinds are serving the world in its struggle for reconstruction.

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American Bosch serves the internal-combustion-engine industry in three vital ways:

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DIESEL FUEL INJECTION • AUTOMOTIVE AND AVIATION ELECTRICAL PRODUCTS



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Installed on your fuel tank, the VENTALARM fill signal emits a whistling sound clearly audible through the vent pipe out-of-doors. Whistle stops when the tank is properly filled ... no guess work, no spillage, no waste, no delay!

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