

Gas Turbine Engine Is GM-Diesel Product

Detroit Diesel Engine Division of General Motors employs over 9,000 men and women, and about one out of every four of these people live in the communities served by Observer Newspapers.

In its Redford Township plant, Detroit Diesel builds engines for trucks, construction equipment and a wide variety of other industrial and marine applications. In the last 10 years the demand for their engines has skyrocketed, and today Detroit Diesel builds four engines for every one engine built in 1961.

The most tangible evidence of the company's growth can be seen in its plant facilities. During the 60s, expansion modernization went on almost continuously, and over one million square feet were added to the main manufacturing plant so that today it is 60% larger than it was in 1963.

To put the size of Detroit Diesel's massive complex into even better perspective, the plant has more square feet of floor space than the Empire State Building and more than 50 football fields would fit under its roof.

Detroit Diesel can be described as a mass producer of "custom built" engines because no engines are built until they are ordered by a customer. There are over 650 manufacturing companies throughout the world who rely on Detroit Diesel to provide the power for their products and, in total, Detroit Diesel engines are used in over 3,800 different applications.

ALL THE NEW construction hasn't been confined to Detroit Diesel's main plant. The division's Parts Distribution Center in Wayne, Michigan, has also been substantially enlarged. More than 200,000 square feet have been added at the Parts Distribution Center since 1963 more than doubling the size of this facility.

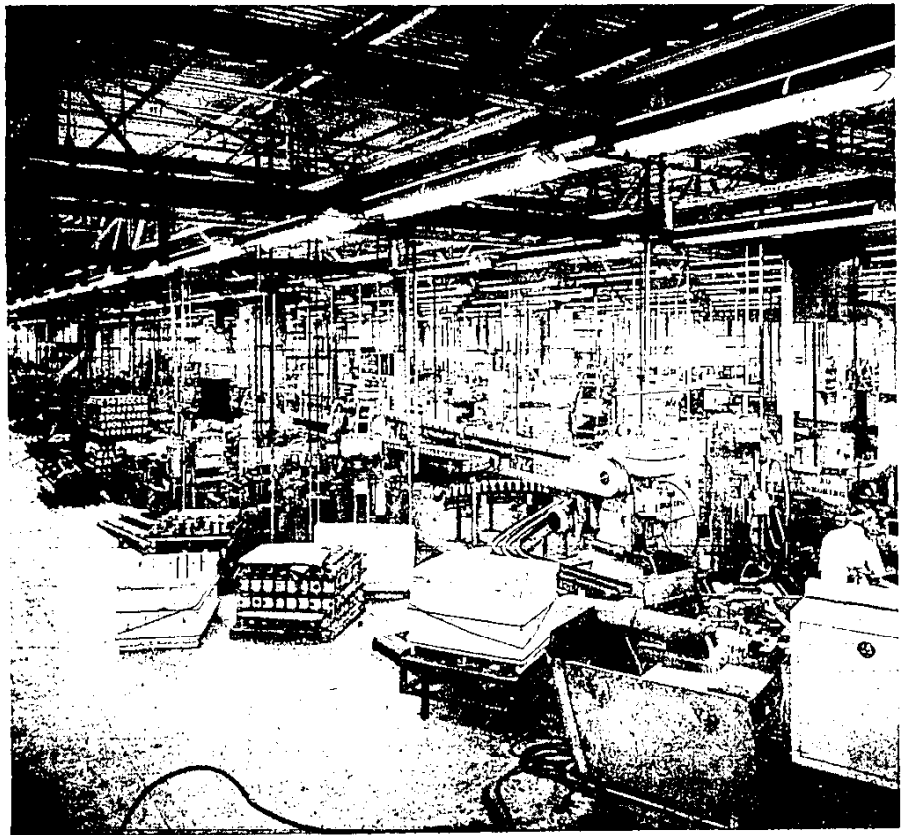
The Parts Distribution Center provides service parts to a worldwide network of distributors and dealers, and the expansion here was required so that this network could serve the additional requirements of Detroit Diesel's growing engine population.

Further increasing Detroit Diesel's potential is the fact that the division is also a leader in development of a heavy-duty industrial gas turbine.

Turbine experimental work dates back over 20 years within General Motors Corp., and in 1964 Detroit Diesel was assigned to take the GT-309 turbine that had been developed by GM Research and refine it into a heavy-duty turbine suitable for a wide variety of uses.

SINCE 1964 THE turbine has been developed to the point where initial pilot production has been scheduled for mid-1971.

With the gas turbine added to the product line, along with continuing refinements to their diesel engines, the growth that Detroit Diesel has seen in the past can surely be expected to continue into the future.



A PLANT "bigger than 50 football fields" houses many machining operations as well as assembly and engine testing. This photo shows Detroit Diesel's piston machining area.

TEFLON and NYLON COATING for INDUSTRIAL APPLICATIONS



This glue pot has an anti-stick surface when coated with one of the fluorocarbon finishes such as, TEFLON, TFE and FEP.

WE CUSTOM COAT THE FOLLOWING:

Dupont's Teflon TFE: Prevents sticking, provides insulation and dry lubrication.

FEP: Provides low permeability and resistance to chemicals

Pennsalt's KYNAR: Tough chemical resistance coating 3-M's KEL-F resists most acids, alkalis, gases and oxidants.

Nylon: For dry-lubrication, corrosion and decorative parts.

TEFLON FINISHES WILL:

- Reduce maintenance costs
- Increase production rates
- Reduce down time
- Reduce clean-up time
- Prevent build-up
- Reduce friction
- Eliminate lubrication

NYLON FINISHES WILL GIVE:

- Superior abrasion resistance
- Dry lubrication
- Corrosion protection
- Decorative parts

TYPICAL APPLICATIONS:

- Food or dough handling equipment
- Molds-Rubber and plastic
- Hoppers
- Submergible steam coils
- Glue pots
- Heat seal dies
- Rubber parts
- Marine parts

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ANTI-STICK

DRY LUBRICATION

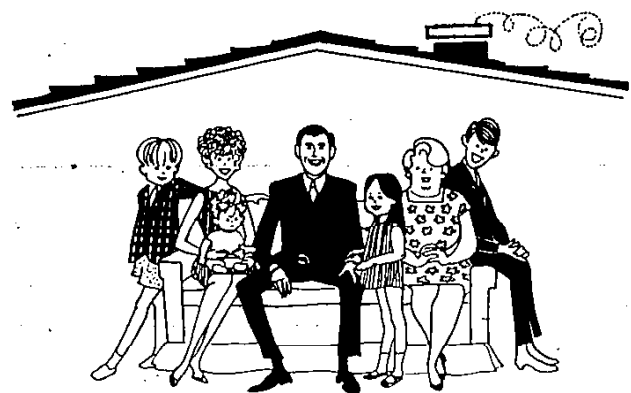
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