

# Hi-Shear, Transland Products in Wide Demand

The products of Hi-Shear Rivet Tool Company are used by nearly all of the principal aircraft and missile manufacturers, locally and throughout the nation. The Transland Aircraft Division of the wide sales and service.

Just sixteen years ago the company was started by two partners, George S. Wing and Allan J. Kirk, in Hermosa Beach.

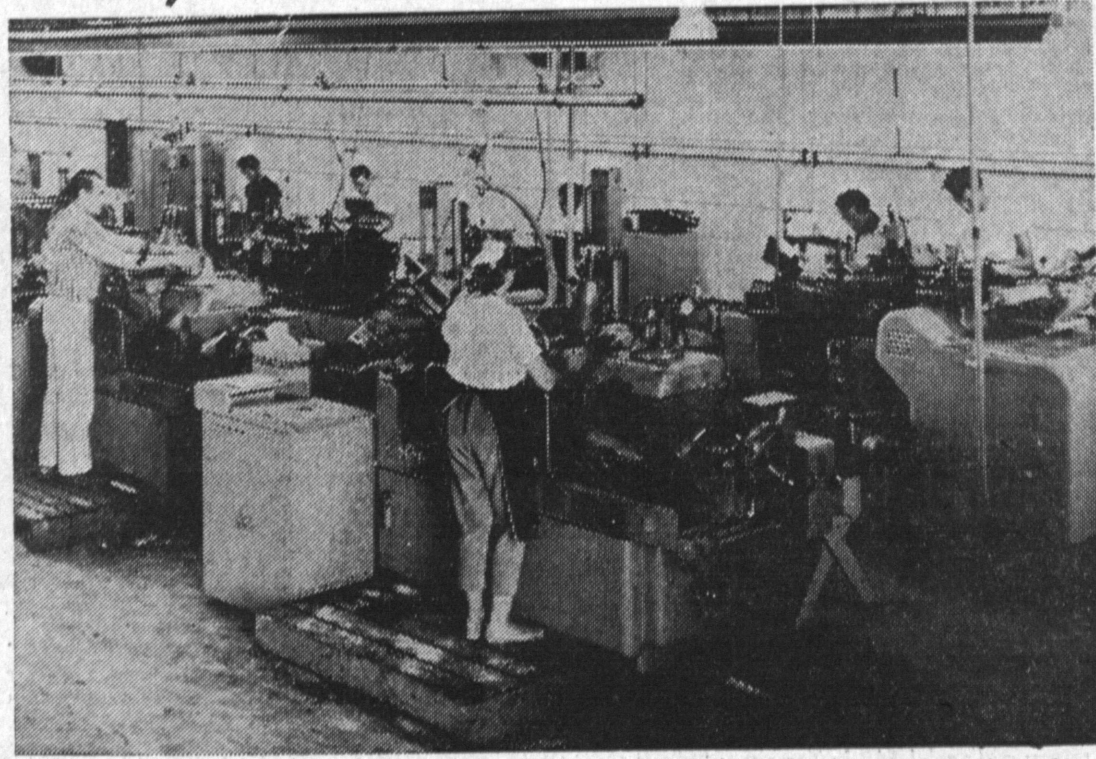
The company moved to its attractive Torrance plant, located at 2600 W. 247th st., at the Torrance Airport, 3½ years ago. The 14 acre location on the north side of the airport permits use of the airport facilities. The companies airplanes include a five-place Fairchild, two-place Cessna 140 and a four-place Cessna 180. The planes are used in sales work, for customer relations and to cover the scattered locations of the company's customers.

**General Offices Here**  
The Torrance plant now accommodates the company's general offices, management offices, engineering and research laboratories, sales department, accounting department, and advertising department. Production departments at the Torrance plant include headers, grinding and heat-treat. All of the Transland offices, engineering, manufacturing, and flight test departments are also included in the Torrance plant.

Two additional locations for manufacturing are the Bellanca plant, north of L. A. International Airport and the Isis plant in Inglewood.

**Rivet Invented**  
President George S. Wing invented the Hi-Shear rivet in 1941 while employed at North American Aviation, Inc. This rivet, devised to replace high-strength shear bolts, offered design advantages of less fastener space needed and a faster installation time. The first airplane to use Hi-Shear rivets was North American Aviation's famous World War II fighter, the P-51 Mustang.

Hi-Shear's first home in Hermosa Beach shared quarters



**FINISHING STEP**—Precision high strength fasteners at Hi-Shear Rivet Tool Company reach final manufacturing step to attain dimensional shank tolerances of .0005" in Grinding Department.

with a gas station. By pooling their savings and eating lightly, Wing and Kirk obtained a few machines and started to make the tool sets required to drive Hi-Shear rivets. To satisfy customer demand, the partners began to produce collars, and after moving to larger quarters, qualified to produce the complete Hi-Shear rivet.

**Transland Company**  
In 1946, when aircraft production was curtailed, the company entered cargo trailer and truck body designing and manufacturing. This venture created Transland Company, now Transland Aircraft, a division of Hi-Shear Rivet Tool Company. Since then Transland has become a leading manufacturer of aircraft assemblies and crop dusting and spraying equipment for agricultural aviation. Today Transland is starting full factory production on its new Ag-2 plane designed by George Wing. Transland

manufactured by Transland Aircraft, a subsidiary of Hi-Shear Rivet Tool Company at 2600 W. 247th St., at the Torrance Airport.

and enlarged facilities and staff, the company diversified its products to reach the new fastener markets.

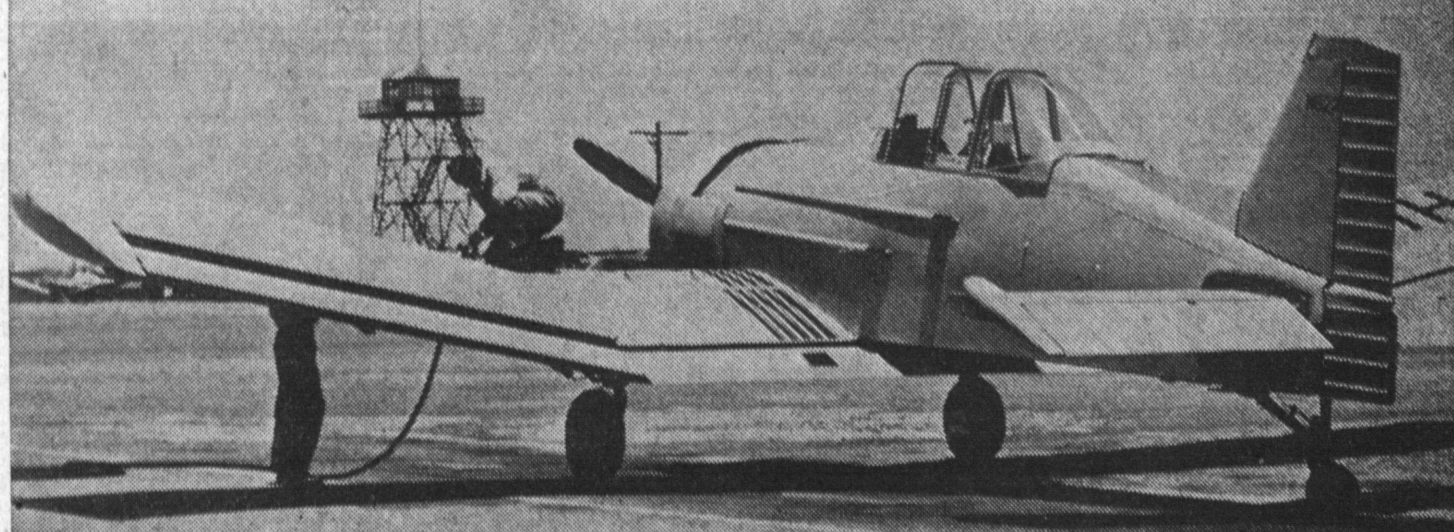
**Anchor Bushing Invented**  
To answer rivet hole preparation problems, the Anchor bushing, a low-cost drill bushing, was invented to hold the drill perpendicular while the hole is being drilled. It is widely used in sheet metal industries of the United States, Canada and England.

**Blind Bolt Patented**  
In 1954, patent papers were prepared for the Blind Bolt, a structure, this unique fastener is now in active production and field service usage by principal aircraft manufacturers and the armed forces. It can be used as a high-strength, all-purpose fastener or as a metal plate.

Experience gained in the study of high-strength fasteners resulted in the development of the Hi-Torque bolt. Its head has a unique slot which grips the blade of the high-torque screwdriver tighter as the torque load is applied.

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**REFUELING**—Transland Ag-2 airplane being fueled before take-off at Torrance Municipal Airport. The Ag-2 carries up to 3000 lbs. of dry or liquid chemicals for fertilizing, insect or weed control on farm or forest lands. The popular agricultural aircraft is

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## Shoestr'g Strip Improvement Announced by Councilman

Improvement of another block in the list of unimproved streets in the Shoestring Strip area is provided in a contract awarded this past week, according to Los Angeles City Council President John S. Gibson.

Paving and construction of sidewalks on the south side of Plaza Del Amo between Halldale and Denker is the latest such project.

Sheets Construction Co. of Gardena submitted the lowest of six bids and received the award on a low offer of \$9282, which was 28 per cent less than previous estimates.

In addition to this windfall in the bidding, owners also will get a full-width street. Public funds for the cost of the additional width have previously been provided by a council appropriation.

At the same time, Councilman Gibson said he was now seeking

means of financing additional improvements between Denker and Harvard to connect with existing paving. He also hopes to include a further widening of that portion of Plaza Del Amo from Harvard to Western, which now is only partially improved.

Work on the new link of the street can begin in about three weeks, according to the Board of Public Works, which issued the contract.

## Experiment With Hypnosis Described by Optometrist

Use of hypnosis to improve a patient's visual acuity is the subject of an article written by Dr. C. L. Way of 1408 Cravena Ave., described an experiment housewife whom he regressed to the age of five by hypnosis.

Purpose of the test was to determine her visual acuity at various age levels since no optometric records were available.

**Improve Vision**  
Not only was Dr. Way able to determine the patient's eye history, but by the time he finished his experiment, the woman's vision improved from 20-100 to 20-15.

The figures mean that in order to see an object that a person with normal eye sight will see from 100 feet away, this patient could see from no farther than 20 feet away.)

"This was merely an experiment, made with the consent of the patient, and certainly not normal procedure," Dr. Way pointed out. "Besides, not everybody can be subjected to hypnosis."

He added that as far as he knows, it was the first time such an experiment was conducted.

**Hypnosis Help**  
Dr. Way, who has been in practice for a decade, said that he first became interested in hypnosis in order to apply it in training lessons to straghten eyes.

When the subject of his experiment came to his office, she had 20-100 vision in one eye. By tracing back her visual history to the age of five, under hypnosis, Dr. Way discovered that she had undergone several changes, and had first worn glasses at the age of 15.

Her vision improved to 20-40 after that time, but began to slip during her late twenties.

The optometrist regressed her to the age of 25 under hypnosis, and by suggestion, managed to

improve her vision to 20-30 at that age level.

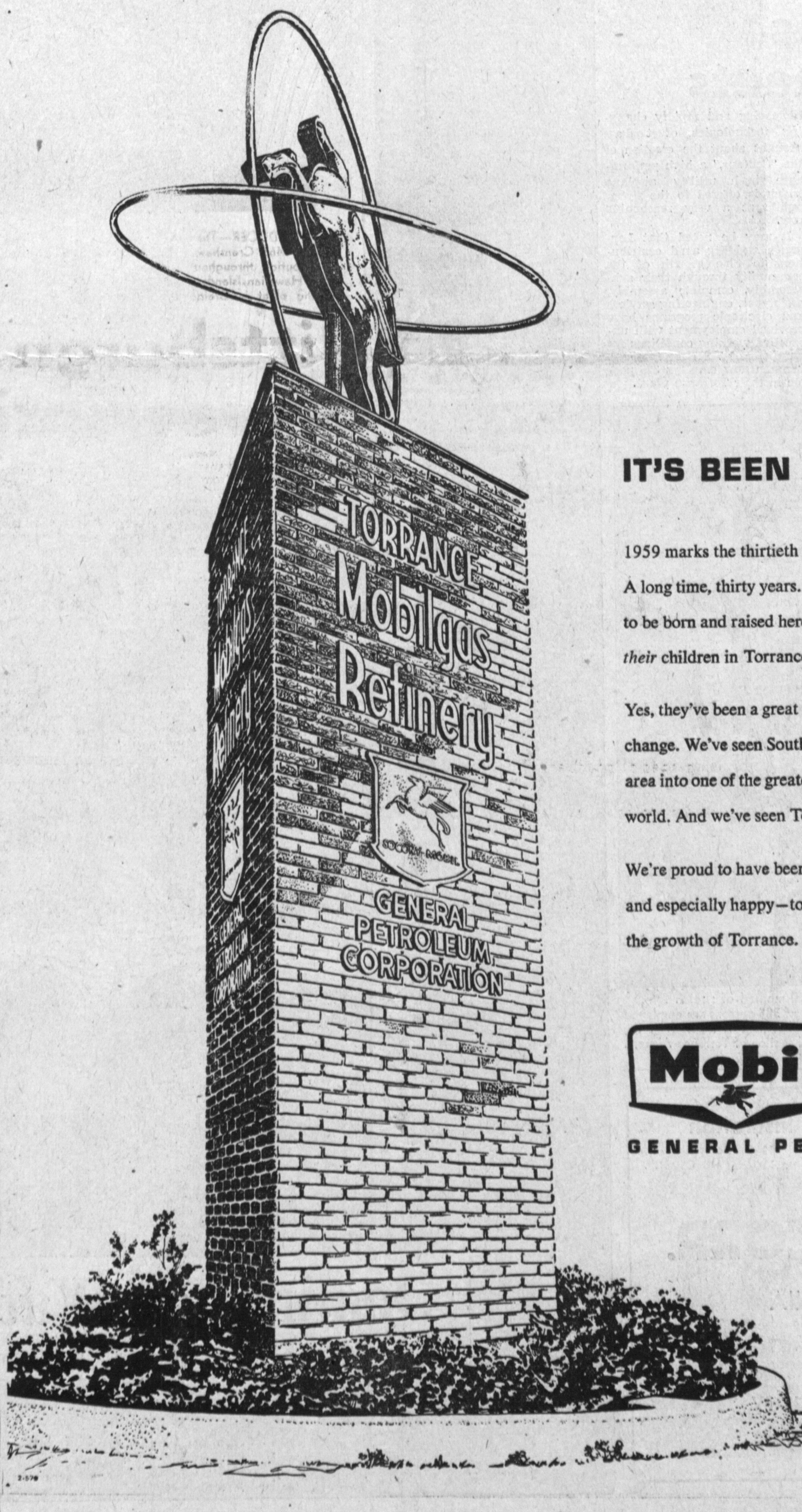
Later, without hypnosis, her vision was 20-25. The following week, it slipped back to 20-50. Following another hypnosis session, the vision was again improved to 20-25, and two weeks later to 20-15, where it stayed, without glasses.

During several subsequent visits her sight remained constant at that point, indicating success of the experiment Dr. Way said.

**Field Trips Taken to Scenic Spots**  
Field trips to nearby points of interest were repeated this year as a part of the summer program. Nearly 1000 children enjoyed bus trips to the harbor, Disneyland, Fern Dell in Griffith Park, and other outstanding points of interest throughout the Southland.

Day Camp programs conducted by the Department were another popular summer activity.

**Playgrounds Open Vacations**  
School playgrounds in the fall, winter and spring were open only during vacation periods and on Saturdays, with one or two exceptions. Afternoon programs on school areas were restricted because of poor participation due to early darkness. During the summer months the program operated five days a week on school playgrounds and six days a week on the park playgrounds. Evening programs were held on the three parks with night lighting facilities.



IT'S BEEN **30** GREAT YEARS

1959 marks the thirtieth year we've been in Torrance.

A long time, thirty years. A generation. Time for our children to be born and raised here, and for them to start raising their children in Torrance.

Yes, they've been a great thirty years. We've seen the face of the nation change. We've seen Southern California grow from a provincial area into one of the greatest metropolitan centers in the world. And we've seen Torrance flower into an All-American City.

We're proud to have been part of these changes. Proud—and especially happy—to have been part of the growth of Torrance.



**GENERAL PETROLEUM CORPORATION**  
(A Socony Mobil Company)