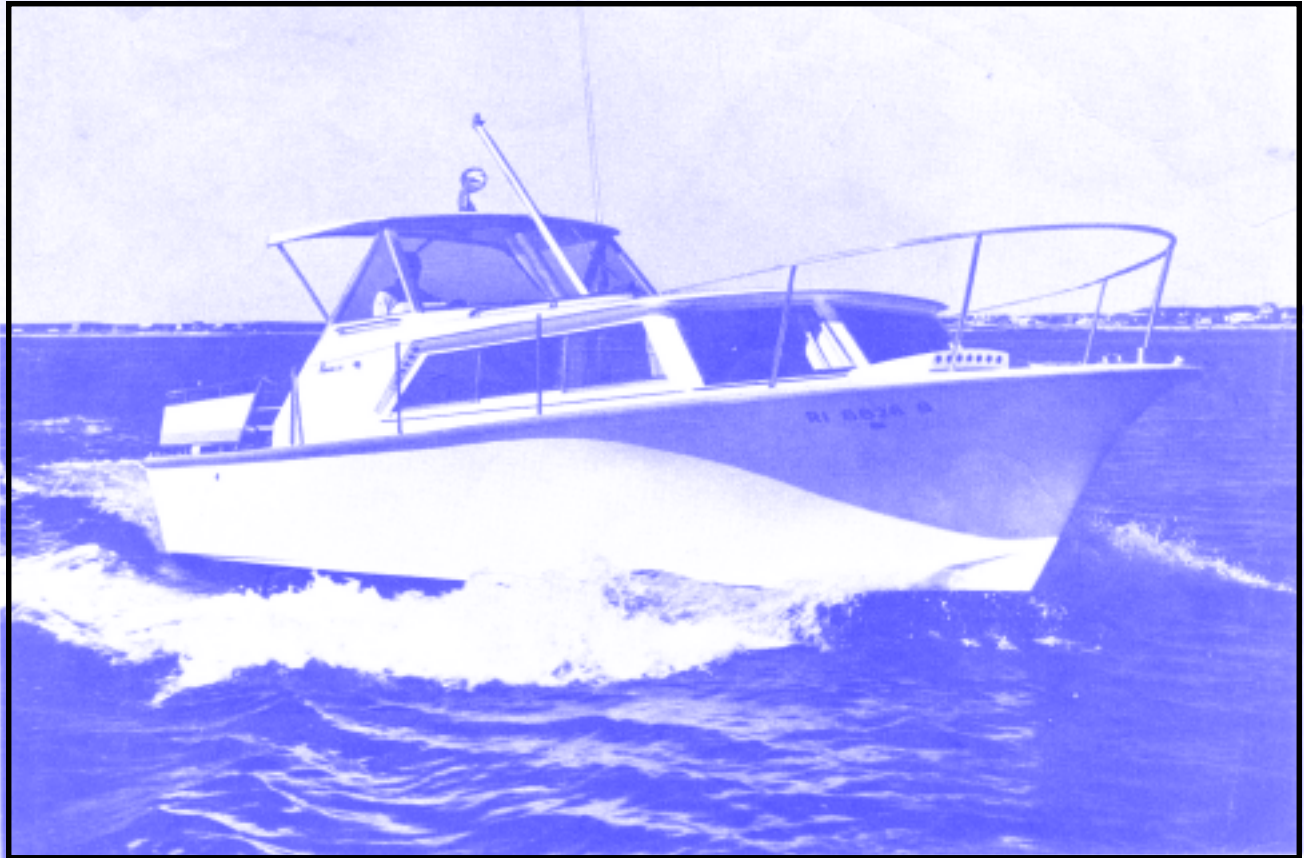


1/8 Scale Radio Controlled 1972 28' Express Cabin Cruiser



This is an exact scale model of a boat manufactured in 1972 by Pearson Yachts, then a division of Grumman Aircraft Co. It has a 41.5" L.O.A. with a 15.5" Beam. The model boat was never put into production because Henry G. Dietz became so involved in working on his patents (over 30 issued) that he dropped the project with the idea he would get back to it. The vacuum forming machine, tooling, etc. are in perfect shape even though they were stored away for the past 27 years, and display the same skills and know-how that were necessary for him to become a very successful inventor (associated with FM, LORAN, and in supplying parts for the first satellite, space shuttle, etc.) Tooling for the hulls is complete. Approximately 90% is completed for the rest of the boat. A number of hulls were made for test runs. The hull was vacuum formed and can be made in 7 minutes with material cost of approximately \$4, an outstanding accomplishment. An electric powered boat was built and tested with radio controls available then, and its performance was impressive.



THE HENRY G. DIETZ CO., INC.

14-26 28th Avenue

Long Island City, New York 11102-3692, U.S.A.

Tel: (718) 726-3347 or (718) 726-7270 Fax: (718) 728-3976

E-mail: hgdietz@idt.net

URL: <http://www.lowpressure.com>

1/8 Scale Radio Controlled 1972 28' Express Cabin Cruiser

The hull is very rugged and requires no reinforcing. As in the full size boat, the model was constructed as a twin screw boat, employing two D.C. motors using a motorcycle battery as the power source. The two motors were fastened to a wooden block cemented to the hull. Tooling for making the propellers, rudders, etc. is available. A small D.C. motor was used to operate the rudders controlled by the radio control.

METHOD OF MANUFACTURE: The model is made from 1/8" thick white thermo-plastic that is molded by vacuum forming. The vacuum machine was made by Henry Dietz. and consists of a machine that will accept the various machined cast aluminum molds to make all the parts such as hulls, superstructure, windshields, etc. The mold is placed in the machine; a sheet of plastic 47" x 19 1/2" x 1/8" is clamped in place. A vacuum pump is started which removes all the air out of a large tank, approximately 48" by 18" diameter. A heating element heats the sheet for approximately 5 minutes to soften it. When the sheet is soft a valve is opened on the vacuum tank, sucking the plastic sheet to conform to the shape of the mold. At this time, a tool comes down to make the narrow sharp keel. The hull can be cut from the forming sheet by using a router tool or band saw. The hull is a planing hull that rides mostly out of the water. This hull can be used to make other types of model boats. Figure 2 is a picture of the vacuum forming machine.



Figure 2 - Vacuum Forming Machine



THE HENRY G. DIETZ CO., INC.

14-26 28th Avenue

Long Island City, New York 11102-3692, U.S.A.

Tel: (718) 726-3347 or (718) 726-7270 Fax: (718) 728-3976

E-mail: hgdietz@idt.net

URL: <http://www.lowpressure.com>

1/8 Scale Radio Controlled 1972 28' Express Cabin Cruiser The HULL

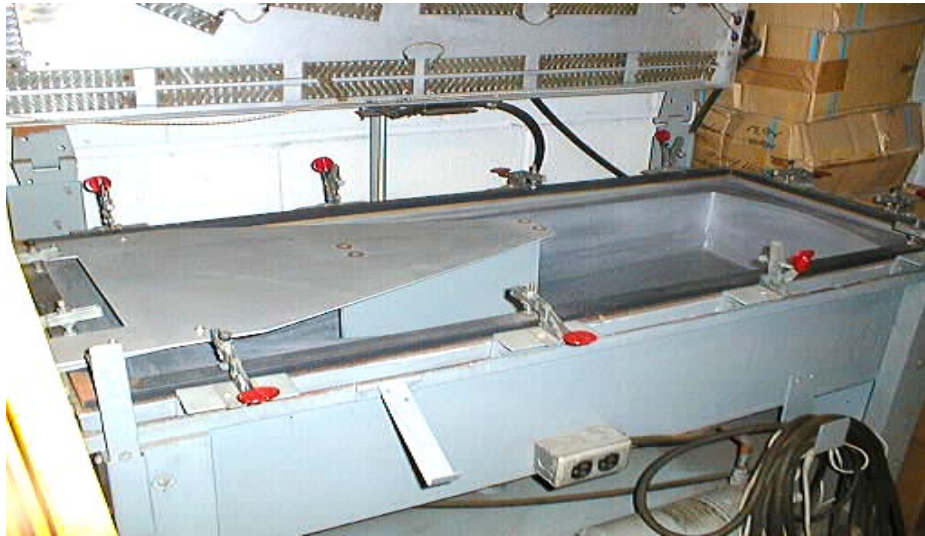


Figure 3 a view of the aluminum hull form



Figure 4 side view of hull



Figure 5 bottom view of hull



THE HENRY G. DIETZ CO., INC.

14-26 28th Avenue

Long Island City, New York 11102-3692, U.S.A.

Tel: (718) 726-3347 or (718) 726-7270 Fax: (718) 728-3976

E-mail: hgdietz@idt.net

URL: <http://www.lowpressure.com>

1/8 Scale Radio Controlled 1972 28' Express Cabin Cruiser

Mold for Superstructure



Figure 6 Top Mold

The mold is a heavy aluminum casting that has an extremely fine surface finish. It actually consists of three parts, of which two parts are removable for creating the over hang for the cabin roof. This mold replaces the hull mold in the vacuum forming machine when it is desired to make a production run of tops.

There is much tooling for the other required parts as well as an inventory of materials used in manufacturing the models. **If one is interested, an inspection of what is available can be arranged.**



THE HENRY G. DIETZ CO., INC.

14-26 28th Avenue

Long Island City, New York 11102-3692, U.S.A.

Tel: (718) 726-3347 or (718) 726-7270 Fax: (718) 728-3976

E-mail: hgdietz@idt.net

URL: <http://www.lowpressure.com>