The Manufacture and Design of Propeller for a Speed Boat

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ABSTRACT

This project presents the manufacturing processes and design concept of propeller for a speedboat. Propeller is essentially a screw that, when turned, pulls itself through the water in the same way that a bolt pulls itself through a nut.

However, chapter 1 of this project report showing that the thrust produced by an operating propeller is dependent upon the diameter, advance speed, fluid density, revolution per second and the viscosity coefficient. Chapter 2, design concept of propeller, will explain the concepts and shows how to sizing a propeller, and also introduce the transmission system and its maintenance. Chapter 3 will present the natural design problem of propeller such as cavitation and solidification shrinkage.

Besides that, the selection of material for propeller and designed of model will be shown. Lastly, the design goes through the manufacturing process and produced.