GLM INTRODUCES LOST FOAM CASTING

“Through the use of precisely molded foam pieces, a highly accurate and efficient, pattern or design for the desired workpiece can be made.”

For marine applications, the addition of new configurations, materials, and techniques to the casting process is continually being explored to achieve the highest level of quality and performance. GLM Marine MV, with its vast experience and expertise, has developed a new process called GLM Lost Foam Casting, which utilizes the precision of foam mold technology to create high-quality components for marine applications.

Models of Descriptions

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>GLM No.</th>
<th>Cast Iron</th>
<th>DEALER PRICE</th>
<th>GLM No.</th>
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GLM Manifolds have increased passageways and an added 30-40% water cooling area to provide more horsepower to your engine.

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- Improved wear resistance
- Reduced porosity
- Increased density
- Better thermal conductivity
- Lower manufacturing costs
- Easier to machine

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Lost Foam: A New Wave of Sand Casting Swells in the Marine Industry

By Michael D. Piko

With the growing demand for high-quality aftermarket marine products, new technology is constantly being developed to meet the needs of the industry. One such process is the lost foam casting method, which has been revolutionizing the field of sand casting. This process involves the creation of a foam pattern, which is then used to produce the final casting. The foam pattern is later melted away, leaving a perfectly shaped metal casting in its place. This method offers several advantages over traditional sand casting, making it a popular choice for various applications, especially in the marine industry.

**Advantages to Lost Foam:**

- **Cost Efficiency:** Lost foam casting is more cost-effective than traditional sand casting. The use of foam patterns reduces the need for core-making and re-melting, resulting in a lower overall cost.

- **Repeatability:** The precision of the foam patterns ensures consistent quality across multiple castings, reducing the need for retooling and retraining.

- **Environmental Benefits:** This method significantly reduces the amount of sand waste, which can be a significant environmental concern in traditional sand casting.

- **Reduced Cycle Time:** The use of foam patterns allows for faster cycle times, which can lead to increased productivity and reduced lead times.

- **Improved Surface Finish:** The smooth surface finish of foam patterns results in castings with a higher quality finish, which is particularly important in the marine industry where aesthetics are often a priority.

- **Reduced Defects:** The lack of sand in the process reduces the occurrence of defects such as porosity and shrinkage, leading to a higher quality product.

Lost Foam Casting Swells in the Marine Industry

Lost Foam Casting is a new process that involves the use of foam patterns to create molds for casting. This method has gained popularity in the marine industry due to its ability to produce high-quality components with greater efficiency and cost-effectiveness. With the increasing demand for high-quality aftermarket marine products, this process offers a significant advantage over traditional sand casting.

Lost Foam Casting involves several stages:

1. **Pattern Making:** The first step involves the creation of a foam pattern. These patterns are made using a variety of materials, such as polyurethane foam, which is easily shaped and molded to create the desired shape.

2. **Coating:** Once the foam pattern is created, it is coated with a layer of sand, which will later be used to create the casting. This coating ensures that the pattern will be stable during the melting process and can withstand the temperature changes.

3. **Melting:** The coated pattern is then placed in a furnace and heated to a high temperature. This process melts the foam, leaving a cavity where the metal will be cast.

4. **Casting:** Molten metal is then poured into the cavity, filling it with the desired material. The metal solidifies, leaving a casting that is a perfect replica of the foam pattern.

5. **Cleaning:** Once the casting is solid, it is removed from the pattern. Any excess metal is then removed to reveal the final product.

This process is highly efficient and allows for the creation of intricate and complex shapes that are difficult or impossible to produce using traditional sand casting methods. The use of foam patterns also reduces the amount of sand waste, making it a more environmentally friendly process.

Lost Foam Casting is a promising technology that is rapidly gaining popularity in the marine industry. As its benefits become more widely recognized, it is likely that this process will continue to play a significant role in the production of high-quality aftermarket marine products.