

JERRY CAN PRODUCTION OPTIMIZATION

WITH PE FILLER MASTERBATCH FOR
BLOW MOLDING

COMPANY OVERVIEW

One of the largest Jerry Can manufacturers in Djibouti was seeking ways to boost profitability in a competitive market. Despite increasing production volumes, their profit margins were below expectations due to rising raw material costs and the need to maintain high-quality standards. This challenge led them to partner with MegaPlast for a cost-effective solution that could improve efficiency while ensuring product quality.

CHALLENGE

The customer had never used Filler Masterbatch before and was concerned that changing the formulation might affect product quality. Ensuring strength, durability, and safety was critical, so they needed a proven solution that offered cost savings without compromising standards.

PRODUCT INFORMATION

- Material: 100% HDPE
- Product: Yellow Jerry Cans with capacities ranging from 0.5L to 30L
- Applications: use for storing cooking oil, chemicals, industrial products, and detergents

SOLUTION

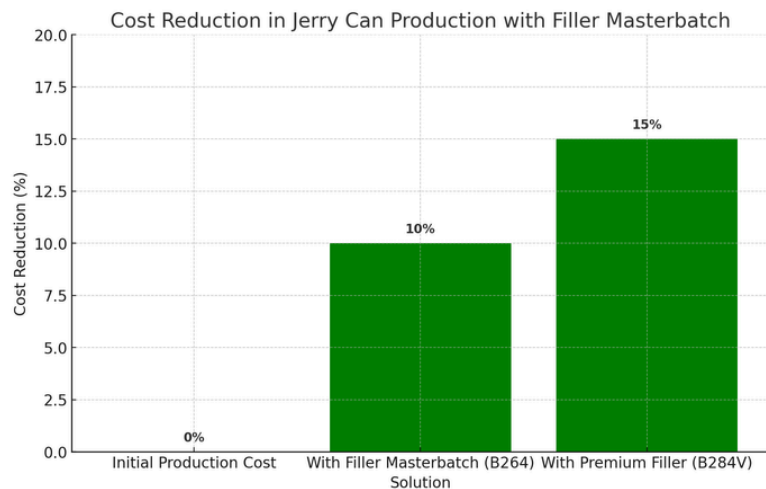
MegaPlast proposed using Filler Masterbatch with product code B264, testing it at a loading rate of 10% - 15%. After thorough trials, the customer observed high stability in the final product, with a slight increase in density but still within quality standards. The product passed rigorous tests, including **impact resistance, internal pressure, chemical resistance, tensile strength, and stacking ability**. Significantly, the Jerry Cans met food safety standards, making them suitable for storing cooking oil.



RESULT

Thanks to its superior quality, the manufacturing plant adopted B264 for production, with an average output of 20 containers per month. This solution enabled a 10% reduction in production costs.

The chart illustrates the cost savings achieved by using different filler product codes from MegaPlast.



EXPANSION AND FURTHER DEVELOPMENT:

To enhance competitiveness in the Kenyan market, the customer recommended MegaPlast to an affiliated company, which required a higher loading rate (20%). MegaPlast responded by developing a premium grade, B284V, tailored to meet stringent quality standards. This new product helped the client achieve a 15% reduction in production costs, further strengthening their competitive position in the market.

WHY SHOULD USE FILLER MASTERBATCH IN BLOW MOLDING PRODUCTION?

- 1. Significant Cost Savings:** Filler masterbatch can replace a portion of the resin, which is often costly, helping manufacturers reduce production expenses by up to 15-20%. This cost efficiency can be especially beneficial in high-volume production environments like blow molding
- 2. Maintained Product Quality:** High-quality filler masterbatch, such as those from MegaPlast, is carefully formulated to ensure stability and performance in final products. It meets rigorous quality standards, including impact resistance and tensile strength, essential for blow-molded items that require durability.
- 3. Increased Competitive Advantage:** By optimizing costs without sacrificing quality, manufacturers can improve their competitive position in the market. The cost efficiency provided by filler masterbatch allows companies to offer better pricing or allocate resources to other areas, such as product innovation or customer service.

CONCLUSION

The partnership with MegaPlast demonstrated the tangible benefits of incorporating high-quality filler masterbatch into Jerry Can production. By introducing MegaPlast's B264 and B284V filler masterbatches, the manufacturer achieved substantial cost savings, maintained product quality, and enhanced market competitiveness. This case study highlights how MegaPlast's tailored solutions enable manufacturers to balance cost efficiency with high-quality standards, providing a sustainable advantage in a competitive industry.

If your business is also looking for cost optimization solutions, contact MegaPlast for tailored support.

Download

The Detailed Case Study

Want to know more about how Mega Plast helped manufacturers in Kenya and Djibouti optimize their production costs? Download the detailed case study here to get more information and the right solutions for your needs.

Nhat Huy Group is a pioneering manufacturer and exporter of plastic products in Vietnam, established in 2004. We offer a range of high-quality products including mineral powder, filler masterbatch, and PVC compound, serving global markets. Committed to innovation and improvement, Nhat Huy Group is dedicated to providing sustainable, efficient, and environmentally friendly plastic solutions, contributing to community and societal development. Our team of experts is always ready to deliver products and services that meet international standards, ensuring maximum satisfaction for our customers.

