

ABSTRAK

Pada perusahaan sektor industri dalam melakukan proses produksi membutuhkan bahan baku (material) sama halnya dengan perusahaan yang bergerak pada sektor jasa. PT GMF Aeroasia adalah sebuah perusahaan yang bergerak di bidang jasa yang berfokus pada *maintenance* pesawat terbang, perusahaan di dunia industri jasa diharapkan untuk menghasilkan produk yang berupa jasa yang memenuhi standar berkualitas dan sesuai permintaan pelanggan, salah satu tantangannya, perusahaan diharapkan untuk dapat mengendalikan persediaan dengan sebaik mungkin. Objek pada penelitian ini adalah *Routine Material Packing P/N 68-1363 Maintenance C-Check* Airbus A330 karena sering ditemukan persediaan yang tidak mencukupi dan dapat mempengaruhi kegiatan produksi jasa. Tujuan dilakukan penelitian untuk meramalkan sehingga dapat memproyeksi kebutuhan di tahun berikutnya serta menentukan metode pengendalian material yang optimal dan ekonomis menggunakan metode *Lot Zising* di PT GMF Aeroasia Tbk. Metode analisis data menggunakan peramalan (*forecasting*), *Lot Sizing* dengan metode *Lot For Lot* (LFL), *Period Order Quantity* (POQ), *Fixed Order Quantity* (FOQ), *Fixed Period Requirement* (FPR), *Economic Order Quantity* (EOQ). Didapatkan hasil bahwa peramalan yang sesuai yaitu dengan metode *Linear Trend Line Model*, dengan menggunakan metode *Lot Sizing Period Order Quantity* (POQ) merupakan metode yang mempunyai biaya persediaan material terkecil yaitu sebesar Rp 19.218.750 bila dibandingkan dengan *Lot For Lot* (LFL), *Fixed Order Quantity* (FOQ), *Fixed Period Requirement* (FPR), *Economic Order Quantity* (EOQ).

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Kata kunci: Pengendalian, Persediaan, Peramalan, *Lot Sizing*, *Lot For Lot* (LFL), *Period Order Quantity* (POQ), *Fixed Order Quantity* (FOQ), *Fixed Period Requirement* (FPR), *Economic Order Quantity* (EOQ), *Packing P/N 68-1363*

ABSTRACT

In the industrial sector companies in carrying out the production process require raw materials (materials) as well as companies engaged in the service sector. PT GMF Aeroasia is a company engaged in the service sector that focuses on aircraft maintenance, companies in the service industry world are expected to produce products in the form of services that meet quality standards and according to customer demand, one of the challenges, companies are expected to be able to control inventory by as good as possible. The object of this study is Routine Material Packing P/N 68-1363 Maintenance C-Check Airbus A330 because it is often found that there is insufficient inventory and can affect service production activities. The purpose of this research is to predict so that it can project the needs in the following year and determine the optimal and economical material control method using the Lot Zising method at PT GMF Aeroasia Tbk. Data analysis methods use forecasting, Lot Sizing with the Lot For Lot (LFL) method, Period Order Quantity (POQ), Fixed Order Quantity (FOQ), Fixed Period Requirement (FPR), Economic Order Quantity (EOQ). The results show that the appropriate forecasting is the Linear Trend Line Model method, using the Lot Sizing Period Order Quantity (POQ) method which has the smallest material inventory cost of IDR 19,218,750 when compared to Lot For Lot (LFL), Fixed Order Quantity (FOQ), Fixed Period Requirement (FPR), Economic Order Quantity (EOQ).

Keywords: Control, Inventory, Forecasting, Lot Sizing, Lot For Lot (LFL), Period Order Quantity (POQ), Fixed Order Quantity (FOQ), Fixed Period Requirement (FPR), Economic Order Quantity (EOQ) , Packing P/N 68-1363