

INTISARI

ANALISIS MANAJEMEN INVENTORI CONSUMABLE GOODS DOTTING GLOVES DENGAN METODE BUFFER STOCK DAN REORDER POINT

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Fenomena yang terjadi di PT United Tractors (UT) Cabang Palembang adalah pengadaan inventori *consumable goods* pada item *dotting gloves* yang tidak konsisten dari *Toolskeeper* tanpa adanya persediaan pengaman dan tanpa pengetahuan tentang kapan sebaiknya melakukan pemesanan ulang, akibatnya sering terjadi kekurangan atau bahkan kehabisan stok di *Tools Room*. Penelitian ini bertujuan untuk mengoptimalkan pengendalian inventori item *dotting gloves* di PT UT Cabang Palembang. Proses pengendalian inventori menggunakan metode perhitungan matematis yaitu persediaan tambahan (*buffer stock*) dan titik pemesanan kembali (*reorder point*) serta perancangan sistem aplikasi inventori berbasis web. Hasil penelitian menunjukkan bahwa terjadi kehabisan stok (*stock out*) secara berulang pada item sarung tangan (*dotting gloves*). Pada tahun 2023, persediaan awal item ini mengalami *stock out* selama 4 bulan. Frekuensi pembelian *dotting gloves* terhitung sedikit, hanya dilakukan 2 kali dalam waktu 5 bulan. Setelah menghitung *buffer stock* dan *reorder point*, acuan perusahaan dalam melakukan pemesanan kembali ketika stok *dotting gloves* mencapai angka 83 pasang atau 7 lusin mulai dari bulan Juli 2023 s.d. Desember 2023. Pengendalian dengan metode tersebut optimal untuk dilakukan, terbukti mulai dari bulan Agustus 2023 s.d. Desember 2023 perusahaan tidak lagi mengalami *stock out*. Selanjutnya dibuat aplikasi manajemen inventori berbasis web untuk mendeteksi *reorder point* pada item *dotting gloves* secara otomatis untuk memudahkan *Toolskeeper* dalam menentukan waktu pengadaan kembali sehingga dapat menjaga keberlangsungan operasional perusahaan.

Kata Kunci: *Inventori, dotting gloves, buffer stock, reorder point, stock out.*

ABSTRACT

ANALYSIS OF MANAGEMENT FOR DOTTING GLOVES CONSUMABLE GOODS INVENTORY USING BUFFER STOCK AND REORDER POINT METHODS

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The phenomenon that occurred at PT United Tractors (UT) Palembang Branch was the procurement of inconsistent inventory of consumable goods in dotting gloves items from Toolskeeper without safety supplies and without knowledge about when to reorder, as a result of which there was often a shortage or even out of stock in the Tools Room. This research aims to optimize the inventory control of dotting gloves items at PT UT Palembang Branch. The inventory control process uses mathematical calculation methods, namely additional inventory (buffer stock) and reorder points (reorder points) as well as the design of a web-based inventory application system. The results of the study showed that there was a repeated stock out of stock (dotting gloves) in glove items. In 2023, the initial inventory of this item has been out of stock for 4 months. The frequency of buying dotting gloves is small, only done 2 times within 5 months. After calculating the buffer stock and reorder points, the company's reference in placing reorders when the stock of dotting gloves reaches 83 pairs or 7 dozen starting from July 2023 to December 2023. Control with this method is optimal to be carried out, proven starting from August 2023 to In December 2023, the company no longer experienced stock outs. Furthermore, a web-based inventory management application was created to automatically detect reorder points on dotting gloves items to make it easier for Toolskeeper to determine the time of reprocurement so that it can maintain the continuity of the company's operations.

Keywords: Inventory, dotting gloves, buffer stock, reorder point, stock out.