

**PENGENDALIAN KUALITAS PRODUKSI KURSI TAMAN & TIANG LAMPU
MENGUNAKAN METODE *FAILURE MODE AND EFFECTS ANALYSIS* (FMEA) &
THEORY OF INVENTIVE PROBLEM SOLVING (TRIZ) DI CV. KEMBAR TEKNIKA**

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ABSTRAK

CV.Kembar Teknika merupakan perusahaan manufaktur yang bergerak pada industri pengolahan logam yang terletak di desa Klepu, kecamatan Ceper, kabupaten Klaten. CV.Kembar Teknika dalam proses produksi masih terdapat produk cacat, dalam penelitian ini data yang di produksi dari tanggal 14 Februari 2023 hingga 17 Maret 2023 masih terdapat produk cacat yang terdiri dari cacat kropos, cacat rantap, cacat lepot, cacat tidak sesuai cetakan. Dari permasalahan tersebut penelitian ini menggunakan metode *failure mode and effects analysis* (FMEA) & *Theory of Inventive Problem Solving* (TRIZ). FMEA berfokus untuk mengidentifikasi dan mencegah masalah yang terjadi pada produk dan proses. *tools* utamayang digunakan dalam pemecahan masalah dalam TRIZ adalah *Ideality function* atau *final result*, *separation principle*, *40 inventive principles*, *39 engineering parameters*, dan *contradiction matrix*, *Ideality function* adalah pernyataan yang menyatakan kondisi ideal yang ingin dicapai. Diketahui beberapa faktor yang menjadi penyebab diantaranya: Alat, operator, material, metode dan lingkungan. Usulan perbaikan yang sebaiknya dilakukan CV.Kembar Teknika adalah melakukan pembaharuan dokumentasiSOP dan instruksi kerja secara jelas, memperhatikan lagi kondisi ruang kerja yang digunakan, melakukan pengecekan kepada material dan mesin yang di gunakan, dan memperhatikan kinerja keryawan.

Kata kunci: *failure mode and effects analysis* (FMEA) & *Theory of Inventive Problem Solving* (TRIZ), pengendalian kualitas, produk cacat, CV.Kembar Teknika

QUALITY CONTROL OF GARDEN CHAIR & LAMP POST PRODUCTION USING FAILURE MODE AND EFFECTS ANALYSIS (FMEA) & THEORY OF INVENTIVE PROBLEM SOLVING (TRIZ) METHODS AT CV. KEMBAR TEKNIKA

ABSTRACT

CV. Kembar Teknika is a metal processing manufacturing company located in Klepu village, Ceper subdistrict, Klaten district. CV. Kembar Teknika still has defective goods throughout the manufacturing process. The data produced in this study from February 14, 2023, to March 17, 2023, still comprised defective items such as chip flaws, loose defects, and defects that did not match the mold. To address these issues, this study employs the failure mode and effects analysis (FMEA) and Theory of Inventive Problem Solving (TRIZ) methods. FMEA is concerned with identifying and preventing problems in products and processes. Ideality function or end outcome, separation principle, 40 innovative principles, 39 engineering parameters, and contradiction matrix are the significant instruments utilized in TRIZ issue resolution. The ideality function is a statement that specifies the ideal conditions to be met. Several aspects are recognized to be the causes, including tools, operators, materials, processes, and the environment. CV. Kembar Teknika should update the SOP paperwork and provide clear work instructions, pay more attention to the state of the work environment, inspect the materials and machines used, and monitor staff performance.

Keywords: failure mode and effects analysis (FMEA) & Theory of Inventive Problem Solving (TRIZ), quality control, defective products, CV.Kembar Teknika

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