

# MANAJEMEN PEMELIHARAAN MESIN SPOTWELDING DENGAN MENERAPKAN TOTAL PRODUCTIVITY MAINTANANCE DI PT INDONESIA THAI SUMMIT AUTO

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## ABSTRAK

Peralatan produksi secara bertahap meningkat dan tentu saja biaya Teknologi menjadi lebih penting. Peralatan produksi mewakili sebagian besar modal yang diinvestasikan di perusahaan, dan merosotnya peralatan menyebabkan peningkatan produksi, kualitas produk yang lebih rendah, dan siklus pengiriman yang lebih lama. Untuk menjaga kondisi mesin yang berjalan disetiap harinya 9 jam, maka pada bulan juli 2021 sampai Maret 2022 yang dimana memiliki *downtime* selama 393 Jam sehingga agar tidak mengalami waktu proses produksi terpotong terlalu lama, maka dibutuhkan Metode *Total Produksi Maintenance* untuk pemeliharaan mesin yang baik dan tepat sehingga hasilnya dapat meningkatkan efektivitas mesin dan dapat mengurangi kerugian yang diakibatkan dari kerusakan mesin. Penyebab rendahnya nilai guna mesin antara lain karena kurang tindakan *preventive, corrective maintenance*, dan tingginya tingkat *defect and speed*. Hasil pengukuran nilai efektivitas mesin spot welding SP 16 dan SP 17 dengan menggunakan metode *overall Equipment Effectiveness* dari bulan juli 2021 sampai maret 2022 memperoleh nilai presentase yang berkisar antara 85,13% - 92,99%. Dan nilai *overall Equipment Effectiveness* terbesar dimiliki pada bulan Agustus 2021 yaitu 92,99%, dan nilai *overall Equipment Effectiveness* terkecil dimiliki bulan febuari 2022 sebesar 85,13%. Menurut perusahaan standar ideal *overall Equipment Effectiveness* adalah 85 % sehingga pada bulan febuari 2022 sudah diatas setandar ideal perusahaan.

**Kata Kunci:** *Total Productivity Maintenance, Overall Equipment Effectiveness, Spot Welding, Cleaning TPM.*

## **SPOT WELDING MACHINE MAINTENANCE MANAGEMENT BY APPLYING TOTAL PRODUCTIVITY MAINTENANCE AT PT INDONESIA THAI SUMMIT AUTO**

### **ABSTRACT**

Production equipment is gradually increasing, and Production equipment represents a large proportion of the capital invested in a company. Declining equipment leads to increased production, lower product quality, and longer delivery cycles. In order to maintain the condition of the machine running 9 hours every day, from July 2021 to March 2022, which has a downtime of 393 hours so that in order not to experience the production process time being cut too long, the Total Production Maintenance Method is needed for good and proper machine maintenance. So that the results can increase the machinery's effectiveness and reduce the losses caused by damage to the machine. The causes of the low use of machine value are, among others, the lack of preventive action, corrective maintenance, and the high rate of defects and speed. The results of measuring the effectiveness of the SP 16 and SP 17 spot welding machines using the Overall Equipment Effectiveness method from July 2021 to March 2022 obtained a percentage value ranging from 85.13% - 92.99%. And the immense overall Equipment Effectiveness value is in August 2021, 92.99%, and the lowest overall Equipment Effectiveness value is in February 2022, which is 85.13%. According to the company, the ideal standard of overall Equipment Effectiveness is 85%, so in February 2022, it will be above its perfect standard.

**Keywords:** Total Productivity Maintenance, Overall Equipment Effectiveness, Spot Welding, Cleaning TPM.

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