

**PENERAPAN METODE MEASUREMENT SYSTEM  
ANALYSIS GAUGE REPEATABILITY AND  
REPRODUCIBILITY (GAUGE R&R) PADA PEGUKURAN  
TRANSMISI PRODUK KACA PT. XYZ**

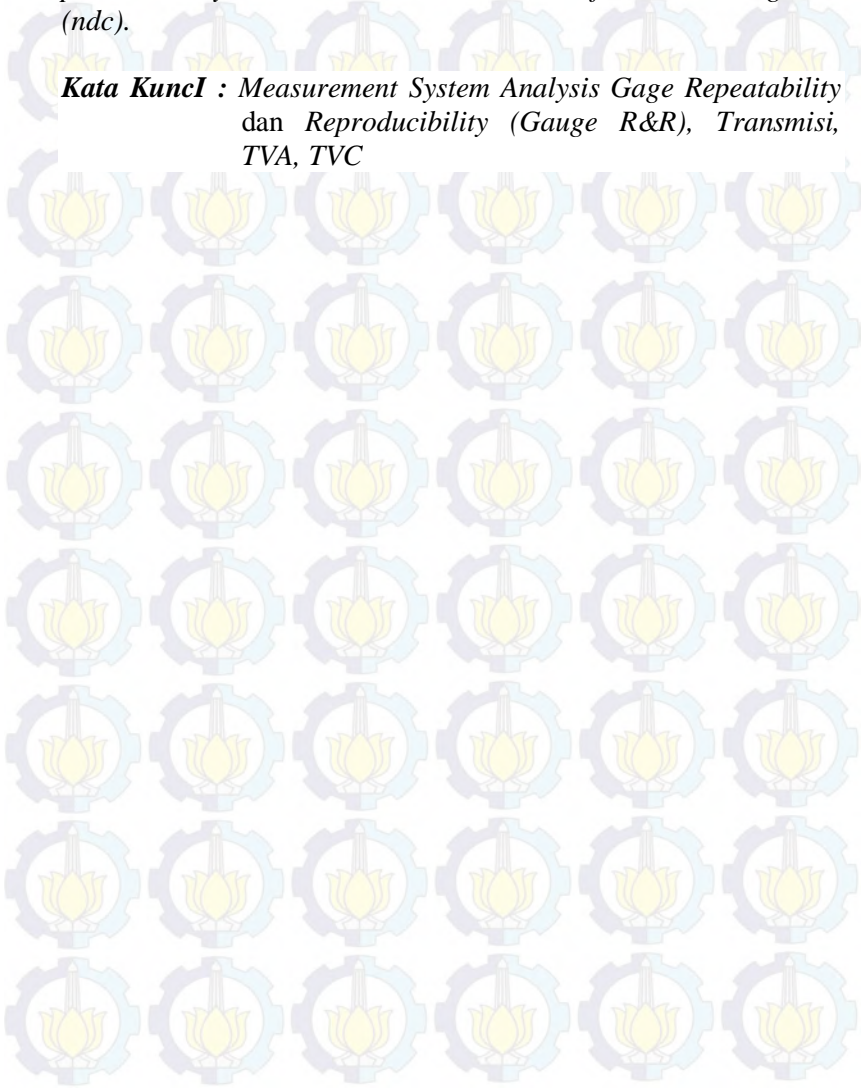
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**ABSTRAK**

*Dalam hal persaingan industri, suatu perusahaan harus mampu bersaing dengan cara mengembangkan produknya, meningkatkan kemampuan produksinya, dan selalu melakukan pengontrolan variabilitas produk untuk menghasilkan produk yang berkualitas dan bermutu melalui pengendalian kualitas secara statistik. PT. XYZ merupakan salah satu perusahaan yang bergerak di bidang glass manufacturing dan menjadi salah satu produsen kaca terbesar di Indonesia. Produk kaca yang dihasilkan oleh PT. XYZ dinilai dari beberapa faktor, yaitu ketebalan (Thickness), kandungan kimia, serta transmisi. Berdasarkan pengukuran yang sudah dilakukan oleh perusahaan, salah satu faktor yang perlu pengawasan lebih adalah faktor transmisi, kualitas transmisi kaca ditentukan oleh dua variabel yaitu persentase jumlah cahaya yang dapat tembus kaca (TVA) dan persentase energi panas yang dapat tembus kaca (TVC). Salah satu dugaan adanya permasalahan pada faktor tersebut adalah kurang akurat dan kurang konsisten hasil dari pengukuran. Sehingga metode yang digunakan adalah dengan metode Measurement System Analysis Gauge Repeatability dan Reproducibility (Gauge R&R). pada penelitian ini dilakukan pada jenis kaca LNFL 2.0 dengan variabel pengamatan TVA dan TVC. Berdasarkan hasil perhitungan MSA GR&R didapatkan sistem pengukuran pada transmisi produk kaca sudah acceptable,*

*hal ini dapat diketahui dari nilai percent contribution, nilai percent study varians dan nilai number of distinct categories (ndc).*

***Kata Kunci*** : *Measurement System Analysis Gage Repeatability dan Reproducibility (Gauge R&R), Transmisi, TVA, TVC*



**APPLICATION OF MEASUREMENT SYSTEM ANALYSIS  
GAUGE REPEATABILITY AND REPRODUCIBILITY  
(GAUGE R&R) METHOD ON THE MEASUREMENT OF  
THE TRANSMISSION OF THE GLASS PRODUCT PT. XYZ**

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**ABSTRACT**

*In terms of industry competition, a company must be able to compete with how to develop its product, increase production capacity, and always controlling the variability of the products to produce a quality products and high quality through statistical quality control. PT. XYZ is one of the companies are engaged in glass manufacturer in Indonesia. Glass product that produced by PT. XYZ was considered from a number of factors, namely the thickness, chemical contents, and transmission. Based on a measurement has been carried out by the company, one of the factors that needs to be more oversight of the transmission factor is transmission quality of glass, the transmission quality of glass is determined by two variables that is the percentage of light that can be transparent glass (TVA) and the percentage heat energy that can be transparent glass (TVC). One of the alleged existence of a problem on these factors is less accurate and less consistent results of measurements. So that the methods used is the method of Measurement System Analysis Gauge Repeatability and Reproducibility (Gauge R&R). on research was done on the type of glass LNFL 2.0 with variable observation TVA and TVC. Based on the result calculating MSA GR&R obtained measurement system on the transmission of glass product is acceptable, it can be known from value of percent*

*contribution, value of percent study variance and the number of distinct categories (ndc).*

**Keywords :** *Measurement System Analysis Gauge Repeatability and Reproducibility (Gauge R&R), Transmission, TVA, TVC*

