CHANGE DUE TO CHANGE IN THE FORM OF WELDING PARAMETER ON ROBOTIC WELDING MACHINE

ABSTRACT

Railway industry is state-owned enterprises engaged in the transportation sector, production services company serving the railways in both home and abroad. As the only company engaged in the PT. INKA must undergo a process of production with a large capacity that must be resolved quickly and with maximum results.

To support these activities, the company began to use sophisticated tools such as robotic welding machine that is able to work with very precise, fast and maximum results. But in its use, the operator must enter the exact parameters that result from the welding-weld capable of meeting the criteria chill.

Parameter-parameter above can be discovered by carrying out simulations using a robotic welding the welding machine. Welding performed on several test specimens in a single position of the bevel groove weld tee-joint-position: 2F. In each specimen welding done with different parameters, from the specimen tested with visual and macroetch test to be used to analyze the appropriate parameters for the welding.

Key words: robotic welding machine, welding parameters, welding results.