WORK OF IRANIAN ULTRASONIC SCANNER FOR FAULT DIAGNOSTIC OF CNG CYLINDERS AT PRODUCTION LINES

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Design and manufacturing of Ultrasonic scanner for fault diagnostic of CNG cylinders is explained on this paper. Ultrasonic scanners have been made installed on 5 different CNG production lines in the territory. A fast and reliable test of cylinders is done with capability of logging results as per customer demands. The paper explains both machine specification and challenges faced during manufacturing and starting up. A questioner has been designed to ask of different operators for handling and performance of machine. It is proved that the ultrasonic machine could identify defects may cause in different stages of CNG production line especially in heat treatment furnace. Beside of innovation of machine manufacturing, the knowledge of ultrasonic interpreting has been transferred to operators and they have earned enough capability to distinguish between flaw and noise signals.

Keywords: Ultrasonic scanner, Heat treatment, ISO 11439 standard, CNG production line