事例研究

機能性評価を導入した一般購入部品購買改善に向けての活動

Use of Functionality Evaluation to Improve Procurement of Parts

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Operating within YKK's integrated manufacturing vision, its Machinery and Engineering Group supplies internally manufactured equipment to factories throughout the world. Despite making much use of purchased parts, in the past the group lacked a strategy for improving the procurement process; most procurement changes were motivated purely by the cost of the parts. Under recent conditions of unanticipated delays in the supply of parts, reviewing procured materials on the basis of cost alone appeared unwise, but the procurement personnel lacked knowledge of the functional evaluation strategy found in quality engineering. To introduce them to functional evaluation, a case study was carried out on the procurement of general-purpose bearings, issues and effectiveness were noted, and this information was shared with the personnel. In particular, the process of choosing among proposed purchases was studied, and a summary of the points that should be considered by the procurement department was prepared. This had the effect of raising the level of awareness of functional evaluation throughout the Machinery and Engineering Group, which began using functional evaluation to confirm the quality of all procured parts. The procurement department also undertook a restudy of the procurement process flow.

Key words : bearing, functionality evaluation, procurement, purchasing, loss function, noise factor search experiment, binomial distribution, quality engineering, Taguchi methods, S/N ratio

1. 背景と目的

YKKグループ会社の多くの製品群は一貫生産思想の下，工機技術本部による内作の装置で製造され

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