

ABSTRAK

Persaingan komponen otomotif tingkat global memaksa lini produksi berbiaya rendah harus dilakukan pada industri komponen otomotif untuk memenangkan persaingan pasar dimasa depan. Fenomena ini bertentangan dengan keadaan industrial di Indonesia sejak pemerintah menerbitkan peraturan baru prihal minimum upah yang berimbang pada kenaikan *labor cost* yang termasuk salah satu faktor *contribution margin*. Penigkatan ini tentu mencuri perhatian industri komponen otomotif di Indonesia untuk mempersiapkan strategi- strategi terbaiknya untuk menjaga kestabilan *contribution margin* yang dihasilkan pada lini produksi termasuk lini produksi *injection plastic*. Sebagai salah satu strategi untuk menurunkan *labor cost*, *cellular manufacturing system* telah memberikan dampak signifikan dalam merancang lini produksi yang efektif dan efisien. Setelah melakukan perancangan *cellular manufacturing system* pada lini produksi *injection plastic* melalui pengalikasan *Leans tools* seperti standarisasi kerja, *Value Streaming Map*, dan *Continous Flow*, terjadi pengingkatan *contribution margin* sebesar 18,5 %. Pada akhirnya, peningkatan *contribution margin* membuktikan bahwa lini produksi berbiaya rendah masih bisa diciptakan dan *contribution margin* ini diharapkan dapat menekan kenaikan *direct labor cost* sekitar 8,71% yang diakibatkan oleh kenaikan upah minimum ragional setiap tahunnya sejak 2016.

Kata Kunci : *Labor cost reduction, contribution margin, Cellular manufacturing system, Lean tools application*

ABSTRACT

The global competitiveness of automotive components pushed the low operation cost production line must be performed in automotive components industry for winning future market. This phenomenon was contradicted in Indonesia since the government launched the new regulation of minimum payment that impact to the increase of direct labor cost as one of contribution margin factor. This increasing of labor cost already got the intension of compounent automotif industry in Indonesia that have to prepared their best strategies for stabilizing the contribution margin of their production line including injection plastic line. As one of strategy in reducing labor cost, cellular manufacturing system already had a signification result in developing an effective and efficient's production line. After developing cellular manufacturing system in injection plastic line by using the application of lean tools such as Work Standardization, Value Streaming Map, and Continous Flow, the contribution margin is increased equal to 18,5 %. This increasing of contribution margin proved the low opearation cost production line still can be performed and hopefully can cover the increasing of direct labor cost equal to 8,71% that caused by the increasing of minimum labor cost since 2016 in Indonesia.

Keywords : Labor cost reduction, contribution margin, Cellular manufacturing system, Lean tools application

