

ABSTRACT

ANALYSIS OF PRODUCTION LINE BALANCING (CASE STUDY LINE MOBILIO TIRE SUB WORK STATION) PT. HONDA PROSPECT MOTOR KARAWANG

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Business competition is getting more competitive and it is faced by all of business actors. Every companies neet to be always making innovation in every aspect, including operational aspect. Line balancing concept is a concept that trying to make balance in production line to create smoothness in production system, by grouping production tasks into several work station by considering time balance between one work station to another. PT. Honda Prospect Motor Karawang as one of the automotive companies in Indonesia. The company is currently experiencing an increase in production capacity. Order from customers increases every month and resulted the production capacity level at the maximum level. At this level if order still increases, then the existing production process will be not normal. From the observation shows the production process is still not running in the good condition and makes the inbalance of the assembly lines. To solve it then do the line balancing process. Line balancing process performed with the Largest Candidate Rule(LCR), Ranked Positional Weight (RPW), and Optimized Best Bud Search with WinQSB software. The results from this research showed that the Optimized Best Bud Search method by software WinQSB is better to design the line balance, with a level performance balance delay 22.83%, idle time in second 81.77, and 9 number of work stations.

Keyword :Line Balancing, Largest Candidate Rule (LCR), Ranked Positional Weight (RPW).