Constraints management dengan product mix algorithm dan drum buffer rope berdasarkan prinsip five focusing steps dalam rangka memaksimalkan throughput perusahaan: studi kasus: PT Metal Diameter = Constraints management with product mix algorithm and drum buffer rope based on five focusing steps principle in order to maximize company throughput: case study: PT Metal Diameter

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Abstrak

[Penelitian ini bertujuan untuk membantu PT Metal Diameter menyusun rencana produksi yang tepat dengan menerapkan product mix algorithm dan drum buffer rope berdasarkan prinsip five focusing steps dari theory of constraints dalam
rangka memaksimalkan throughput. Metode penelitian yang digunakan dalam penelitian ini adalah metode deskriptif dengan data primer. Perencanaan produksi berdasarkan metode tersebut dimulai dengan mengidentifikasi sumber daya kendala. Sumber daya kendala yang telah teridentifikasi akan dieksploitasi melalui aplikasi product mix algorithm dan buffer, setelah itu sumber daya nonkendala akan disubordinasi ke sumber daya kendala dengan membuat jadwal produksi optimal melalui aplikasi rope. Selanjutnya, penelitian ini menyarankan PT Metal Diameter untuk menerapkan metode tersebut dalam penyusunan rencana produksi karena lebih sesuai dengan keadaan lini produksi yang sebenarnya, yang mana terdapat sumber daya yang mengalami keterbatasan kapasitas dan terdapat kemungkinan gangguan internal (breakdown).
.....This research aims to help PT Metal Diameter in preparing proper production plan by applying product mix algorithm and drum buffer rope based on five focusing steps principle from theory of constraints in order to maximize throughput. The method used in this research is descriptive method with the primary data. Production planning based on that method starts with identifying resource constraints. Resource constraints that have been identified will be exploited through product mix algorithm and buffer application, while non-resource constraints will be subordinated to the resource constraints by creating optimal production schedule through the rope application. Furthermore, this study suggests PT Metal Diameter to apply this method in preparing proper production plans because it will be more in line with the actual state of the production line, which have resources with limited capacity and the possibility of internal disturbances (breakdown). This research aims to help PT Metal Diameter in preparing proper production plan by applying product mix algorithm and drum buffer rope based on five focusing steps principle from theory of constraints in order to maximize throughput. The method used in this research is descriptive method with the primary data. Production planning based on that method starts with identifying resource constraints. Resource constraints that have been identified will be exploited through product mix algorithm and buffer application, while non-resource constraints will be subordinated to the resource constraints by creating optimal
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