

ABSTRAK

Penelitian simulasi optimalisasi pabrik *roll forming* ini mengoptimalkan *stop and running down* dan waktu BH (Bahan Habis) *coil* untuk 7 departemen profil *line*. Pabrik *roll forming* di simulasikan dengan menggunakan *Technomatic Plant Simulation Siemens*. Model simulasi pabrik saat ini memiliki *target production* 500 ton/hari dengan Optimalisasi yang ada pada 7 line profil yang telah di optimalkan sebesar 80, 90,sampai 100 untuk *running and down* nya. Sehingga memiliki efisiensi *stop and running down* 35,62, 31,17, 27,71, sampai 24,94. Serta untuk waktu BH (Bahan Habis) *coil* dari 106,86, 93,51, 83,13, sampai 74,82. sehingga sangat baik bagi kesehatan perusahaan dalam beberapa unit yang sudah di optimalkan. Jadi penelitian ini bisa benar-benar menyehatkan perusahaan pabrik *roll forming* yang kita optimalkan.

Kata Kunci : *Roll Forming*, Simulasi, Optimalisasi, *Siemens*.



ANALYSIS ROLL FORMING PLANT OPTIMIZATION WITH PLANT SIMULATION SOFTWARE

ABSTRACT

This optimization research on roll forming plant optimization optimizes stop and running down and BH coil time for 7 line profile departments. Roll forming plant is simulated using Siemens Technomatic Plant Simulation. The factory simulation model currently has a production target of 500 tons / day with existing optimizations on 7 line profiles that have been optimized for 80, 90, to 100 for running and down. So that it has the efficiency of stop and running down 35.62, 31.17, 27.71, to 24.94. And for the time BH (Consumables) coil from 106.86, 93.51, 83.13, to 74.82. so it is very good for the health of the company in several units that have been optimized. So this research can really make the roll forming factory healthy.

Keywords : Roll Forming, Simulation, Optimization, Siemens.

