DESIGN SISTEM MOVER AT MOVING PLATE AND AKTUATOR INJECTION AT INJECTION MOLDING KONVENTIONAL IN CV. ANUGRAH PLASTIK SURABAYA

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Abstracts

CV Anugrah Plastik is home industry produce toys using polimer as raw material. Todays CV. Anugrah Plastik still using injection molding conventional where moving plate and actuator injection moved with men. Manual sistem have weakness as product not same and cycle time is very long.

From the problem we doing to make proses manual injection become otomation. Otomation design doing with see proses injection molding at the moment. Basicly data to make concept design mechanics and controller.

Designs are mechanics sistem and kontrol sistem for mover moving plate and injection actuator. Mechanics sistem such as hidrolik silinder, directional control valve, pump and hidrolik motor. 3D drawing use Catia V5R12 software. Simulation mechanics sistem with Catia Digital Mockup Kinematics. Wiring dan ladder diagram from Control sistem simulated using Automation Studio 5 software so can know control sistem running. Replace manual mover with hidraulik increase production capacity 35 %. Cost need to modifikasi is Rp.14.123.500,-

Key Words : Injection Molding Konventional, Moving Plate, Injection Actuator.