Food Stacker Application

Application – A system consisting of two ROBO Cylinder axes, used for stacking two food products traveling on a line in a food processing factory.

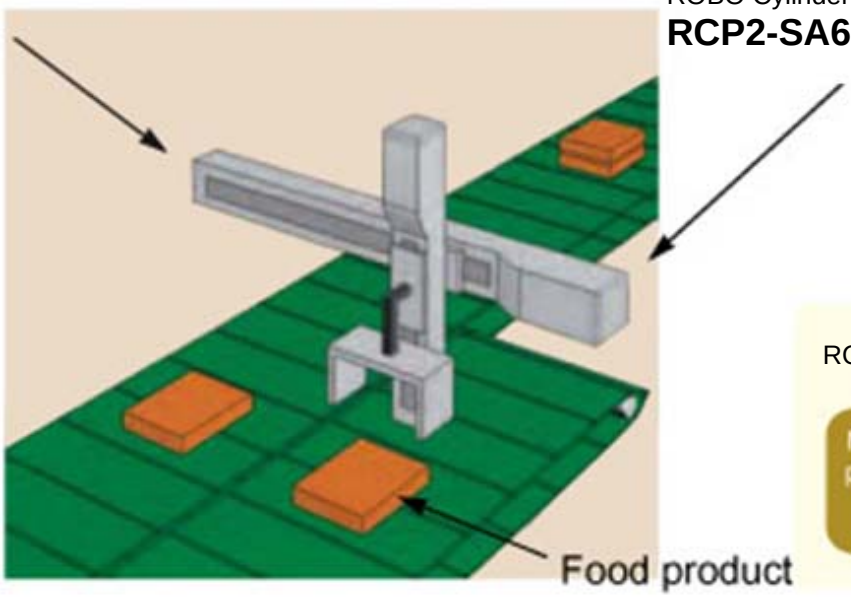
Reduction of Labor Cost by $4,378.60

ROBO Cylinder, slider type, 73mm wide, 300mm stroke

RCP2-SA7-I-PM-16-300-P1-M

ROBO Cylinder, slider type, 58mm wide, 100mm stroke, with brake

RCP2-SA6-I-PM-12-100-P1-R05-B



ROBO Cylinder function(s) used

Air Cylinder	ROBO Cylinder
Cost of Manual Operation **Line Operation Time – 21 hours/day** **Labor Cost** 9:00 – 18:00 = 8 hours = $58.87 18:00 – 1:00 = 7 hours = $77.27 1:00 – 7:00 = 6 hours = $82.79 Daily Cost – 21 hours – $218.93 **Monthly Cost of Manual Operation** $218.93/day x 20 days = $4378.60	Initial Cost of ROBO Cylinder System • ROBO Cylinder • Controller, Cables • Vision Sensor • PLC, etc. Total – $7727.20 **Labor cost became virtually zero.**

Explanation – Introduction of the ROBO Cylinder system eliminated the labor cost of $4378.60 a month required when the line was operated manually. Automation also improved quality, because on the manual line, errors occurred frequently, especially during 2nd and 3rd shifts.

(Note) Another reason that the factory adopted the ROBO Cylinder system is that they didn't want to increase the amount of air equipment due to "unstable speed of the air cylinder system," "difficulty finding space for extra compressors," and the "need to save energy."