

YKK Macon Manufacturing :Senior Design Projects

Slide Fastener – Vision Technology- We are using vision cameras to inspect continuous chain product. We are looking into ways of combining the vision process with the packing process to eliminate steps.

Slide Fastener – Slider Feed Unit – Improve the loading of sliders into the assembly equipment to increase the machine OEE on our final assembly machines. Currently we use some robotics in this area.

Brass Wire – Mechanical Cleaner System – We want to develop some type of mechanical cleaning system to put on our “In Line” flat wire process to remove the dirty surface on our flat wire product.

Textile and Plastics – Ergo-J Process – Develop and automated removal system to allow the product to be moved to the packing process without using labor.

Textile and Plastics – Red Lion – We need to capture data from our Quick Fit Finishing machine to identify stop reasons. This data will allow us opportunities to improve the OEE of the equipment.

Slider Plant – Press Department – Reduce our oily waste water that is currently created within the press department.

Slider Plant – Die Cast – Excess loss is being created by parts not being removed from the runner before being returned to the furnace. We estimate over 10% of good product being returned as loss.

Slider Plant – Packing – Create a bulk pack system for internal customers allowing us to reduce the packing cost and eliminate the usage of packaging.

Textile – Weaving Machine – Implement an automated system to load and unload the centers/racks on our 8 head needle loom machine.

For additional information, please contact:

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