

Appendix I: Design Project Abstract

Auto-feed mechanism for rivet & grommet setting machine

Product Description:

An improved/auto feed solution for a manual rivet/snap/grommet setting machine.

Abstract:

The current process of manually setting snap rivets has become a bottleneck in the production sequence for key products. A solution that allows for rapid loading/placement of rivets/snaps/grommets for manual setting is desired. Design success will be measured in percent improvement a single operator can process manual rivets/snaps/grommets including any prep or staging (currently 5 per minute).

Deliverables:

The project design group will be expected to deliver a working prototype validating their proposed solution that addresses the problem described above and meets the following criteria:

Safety: Design shall not introduce or expose the operator to any hazards in excess of the current process.

Ergonomics: Interaction with design solution shall not induce fatigue in excess of the current process.

Form factor: Design solution shall fit within the current production flow real estate without impeding other processes.

Durability: Solution must be capable of being operated for a minimum of 160 hours before requiring maintenance or servicing.

Cost: Prototype budget shall not exceed \$300 USD. Final proposed design solution shall not exceed \$600 USD.



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