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Riveter Extractor

Present Center fire extractors are riveted into the bolt heads. * ~~the present problems with of design and cost of repair~~ the rivetless extractors have been designed to overcome both of these shortcomings and ~~at the same time~~ are easier to manufacture, resulting in significant potential savings. ~~and~~

* They are ^{both} fragile and ~~are~~ very difficult to replace by the customer.

Integral Ejectors

Currently the ejectors in the model 1100 12 ga and 20 ga shotguns are spot welded to the barrel Extension and machined to size. ~~There is a no integral ejector~~ A process has been developed to form the ejector ~~out~~ as an integral part of the barrel extension. Savings of over \$60,000 per year can be realized by this procedure.

Auto Drill Line

The present method of preparing shotgun barrel blanks for the swaging machines is ~~both costly and labor intensive~~ ^{difficult to control} and requires an unacceptably high degree of technical and Engineering support. A process has been developed to replace it utilizing proven machining

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completely
methods and automated part handling.

~~new design on new design~~