

SUGGESTIONS SUPPORTING A NEW LINE OF BOLT ACTION RIFLES
AND SHOTGUNS.

Introduction.

This program reviews the favorable and undesirable features of the M700 rifle with suggestions to support an improved M700, elevating it to a higher quality level of customer acceptance. The development will not be too expensive or time consuming and would provide a base rifle allowing time to accommodate the more innovative ideas.

A proposed foundation for a new bolt action shotgun follows the rifle program.

Program for the improved rifle.

The M700 action exceeds the strength of every known bolt action CF rifle by a substantial margin. Supporting the exposed head of the cartridge case by reinforcing it with the bolt shroud, barrel recess and receiver, prevents case rupture and a damaging amount of gas from escaping rearward during high pressure firing. The ring extractor used in the M700 eliminated the need for expensive qualification threading and ^{an} extractor cut in the ^{barreled} receiver assembly so commonly used in previous bolt action rifles. The superior strength was a fortuitous spin-off of this design and not known until severe strength testing revealed the secret. Any future development should include the integrity of this principle and must be jealously guarded. This is not to say that the ring extractor is mandatory to protect the strength principle but the support of the cartridge case without rupture under high pressure is extremely important.

*M/700
Strength*

The M700 extractor has undergone a series of design changes to guarantee reliability and the latest is believed to be superior to previous attempts. Unfortunately a bad reputation of breakage, malfunctions, and difficult repairs