

M/700 Enhancement Program: David Findlay and Derek Watkins

The Model 700 performance enhancements program is developing improvements to the accuracy of the rifle. Two areas of investigation will be rifling design (5R primarily) and bedding changes. Recoil reduction is another objective of the program. Two areas of investigation are the addition of a muzzle break to reduce recoil with the additional aim of reducing the peak noise level, plus an investigation of recoil pad materials and design. An additional aim of the program is a new fire control design which will ensure engagement of the trigger and incorporate a bolt lock mechanism. Two distinct design approaches are being detailed, both utilize a three position safety. Lastly, a new ergonomic stock design is being designed to utilize soft inserts which may be customer adjustable.

<u>Development Milestones</u>	<u>Start / Completion Date</u>		<u>Resource Required/Qty./Duration</u>
1. Definition	10/20/95	11/15/95	Team
2. Preliminary Design			
Firecontrol Modeling	10/20/95	11/30/96	Engineers (2)
Firecontrol Detailing	11/15/95	01/01/96	CAD Detailer (2)
Muzzle Break Modeling	11/01/95	11/11/95	Cad Designer (1)
Muzzle Break Detailing	11/11/95	11/15/95	Cad Designer (1)
5R Rifling Design	11/15/95	12/31/95	Engineer (1)/Ammo Eng. (1)
5R Rifling Detailing	11/30/95	01/15/96	Cad Detailer (1)
Recoil Pad Material and Design	11/15/95	01/15/96	Materials Engineer (1)
Recoil Pad Detailing	01/01/96	01/15/96	Cad Designer (1)
Epoxy Bedding Design	09/01/95	12/15/95	Engineer (1)
Epoxy Bedding Detailing	12/15/95	01/15/96	Cad Detailer (1)
Nasset Bedding Design	12/15/95	01/15/96	Engineer (1)
Ergonomic Stock (soft inserts)	12/15/95	08/15/96	Materials Eng. (1) / Designer (1)
3. Kinematics Analysis (Firecontrols)	10/20/95	01/30/96	Kinematics Engineer (1)
4. First Prototype			
Firecontrol No. 1 (5)	01/01/96	04/15/96	Machine Shop
Firecontrol No. 2 (5)	01/01/96	04/15/96	Machine Shop
Muzzle Break (5)	11/15/96	01/15/96	Machine Shop
5R Rifling (25 per cal.)	01/01/96	06/15/96	Machine Shop/Ilion bbl. shop
Recoil Pad (10)	01/01/96	04/15/96	Machine Shop
Epoxy Bedding (10)	01/01/96	04/15/96	Machine Shop
Nasset Bedding (10)	Complete	Complete	
Ergonomic Stock (soft inserts)	01/15/96	03/15/96	Machine Shop/Custom Shop

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5. Test I / Acceptance Testing			
Firecontrol (5)	04/15/96	07/15/96	Lab Tech (2)
Muzzle Break (5)	01/15/96	03/15/96	Lab Tech (2)
5R Rifling (25 per cal.)	06/15/96	09/15/96	Lab Tech (2)
Recoil Pad (10)	04/15/96	06/15/96	Lab Tech (1)
Epoxy Bedding (10)	04/15/96	06/15/96	Lab Tech (2)
Nasset Bedding (10)	11/15/95	01/15/96	Lab Tech (2)
6. Review			
Firecontrol	07/15/96	07/30/96	Team
Muzzle Break	03/15/96	03/20/96	Team
5R Rifling	09/15/96	09/20/96	Team
Recoil Pad	06/15/96	06/20/96	Team
Epoxy Bedding	06/15/96	06/20/96	Team
Nasset Bedding	01/15/96	01/20/96	Team
Ergonomic Stock (soft inserts)	03/15/96	05/15/96	Team / Marketing
7. Final Design			
Firecontrol (One Design Selected)	07/30/96	09/30/96	Engineer (1) / Cad Detailer (1)
Muzzle Break (other Calibers)	03/20/96	05/30/96	Engineer (1) / Cad Detailer (1)
8. Second Prototype Build			
Firecontrol (50)	08/30/96	11/30/96	Machine Shop
Muzzle Break (other Calibers -5)	05/30/96	07/30/96	Machine Shop
Nasset Bedding (10)	1/30/96	4/30/96	Machine Shop
Ergonomic Stock (soft inserts) (50)	08/15/96	02/15/97	Mold Vendor
9. Acceptance Testing			
Firecontrol (50)	11/30/96	01/30/97	Lab Tech. (3)
Muzzle Break (other Calibers -10)	07/30/96	08/30/96	Lab Tech. (2)
Nasset Bedding	4/30/96	6/30/96	Lab Tech (2)
Ergonomic Stock (soft inserts) (50)	02/15/97	04/15/97	Lab Tech (1)

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10. Transmittal

Firecontrol	01/30/97	02/15/97	Team
Muzzle Break (30-06 - .308)	03/15/96	04/30/96	Team
Muzzle Break (all others)	08/30/96	09/30/96	Team
5R Rifling	09/30/96	10/30/96	Team
Recoil Pad	06/30/96	07/20/96	Team
Epoxy Bedding	06/15/96	07/30/96	Team
Nasset Bedding (Need Licensing Agreement)	06/15/96	07/30/96	Team
Ergonomic Stock (soft inserts)	04/15/97	04/30/97	Team

- 11. Catalog Sample
- 12. Documentation Package (Complete)
- 13. Executive Review
- 14. Outdoor Writers Conference
National Sales Meeting

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