

R & D LONG RANGE PROGRAM REVIEW - contd.MODEL 742-X - 1100-X DEVELOPMENT - contd.

The prototype Model 742-X is a shooting rifle but the specific one shown has not been shot. Another prototype is in test. Features of the rifle were reviewed.

1. When the Bolt is pulled back, it stays back if there are no more cartridges in the rifle.
2. Break Action.
3. Take down.
4. Interchangeable calibers - change Bolt and Barrel.
5. Retention of point of impact after takedown.
6. Ease of cleaning, maintenance and inspection.
7. Can bore sight to "zero in" rifle.
8. Strength equal to the Model 700. This will be tested within the next two months.
9. Detachable Magazine Box.

Samples were shown demonstrating the forming process for the Frame and Top Tang. The Frame is being studied to see how the design could be modified for machining, rather than forming, processes.

All drawings have been released to Production for estimating. It is expected that a preliminary cost estimate will be available by March, 1973.

The function cycle of the Model 742-X was reviewed and is shown as Exhibit 11. The purpose of this cycle is to slow down opening of the rifle. This will give the rifle better functional performance and longer life. For example, the cycle rate of the Model 742 is 650 rounds per minute and the Model 742-X, 480. Time to unlock has been increased from 3.5 to 12 milli-seconds.

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