

SHOTGUNS - contd.MODEL 1100 AUTOLOADING SHOTGUN - IMPROVEMENTS

Process estimates have been made for the improvements. Product cost estimates are being made. It is expected that a project will be submitted in July.

R & D reported that 5000 3-inch magnum test rounds have been fired in three prototype guns and one control gun. Life of the Fore-end Tube is 100% improved and Action Bars 70%. The one-piece prototype Fore-end Support was unacceptable. It has been replaced with the two-piece assembly which is 300% better than present design. The Links did not fail which compares to an average life of 2041 3-inch magnum rounds for current design.

Extractors with the milled hook are 20%-30% improved. There is also a new design Extractor, .030" thicker, being considered which is not interchangeable. The Interceptor Latch failed at an average of 1400 rounds. This test is not valid since the prototype Latch does not represent the production part which is not yet available.

A correlation between endurance life with magnum loads and field loads is not established.

It is not proposed to use a new model designation in 1975. Before this change, it is planned to have the improvements in and proven.

COMPETITIVE SHOTGUNS

The R & D status report on testing of competitive shotguns is attached - Exhibit 1. Testing has been on one gun of each model.

It appears that Model 1100 endurance has drifted from standard. This will be determined more accurately when two more tests on one gun of each model are completed.

Results on the Model 1100 are of concern, especially because the impression was that this gun had been improved over the years. Control guns used in the current Model 1100 improvement program must be to standard. Standard plant testing will not provide information on gun endurance.

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