

Arms Minute 2, 1957

DED reported on a test in which a Model 572 was fitted with a steel-lined aluminum barrel such as will be used on the Color Master line. The gun was fired 25,000 rounds, using Shorts, Longs, and Long Rifle cartridges of all types including Winchester and Western. The gun was inspected visually, and the head space was measured every 500 rounds. Accuracy was measured every 5,000 rounds.

A total of 44 malfunctions was obtained for a malfunction rate of 0.17 per cent. The head space did not increase, nor did the group size on the accuracy tests. Chamber casts at the mid-point and completion of the test showed no apparent change. Only one gun defect was encountered which was related to the barrel. After 13,500 rounds, the hanger shot loose which affected head space. It was necessary to use a larger outside diameter hanger and retap the barrel. It is believed that this will be overcome by the use of a Heli-Coil insert. This performance is considered quite encouraging.

The Plant now estimates that pilot operations will start on schedule the first of March, and they presented the following warehouse schedule:

Schedule Submitted: February 11, 1957

April	50
May	750
June	1,000

MODEL 552

The announcement letter on the Model 552 has been prepared and presented to Management for approval.

The Ilion Plant has undertaken a large amount of additional testing. The results were presented and interpreted by DED. Each of ten guns was fired 850 rounds, including 50 rounds each of 17 types of ammunition ranging from Remington New and Improved Shorts to Federal Long Rifle Hi Speed. These tests were performed outdoors at approximately 20°F.

This test confirmed the previous finding that the Model 552 is marginal in performance with the standard shorts and cannot be recommended for use with this type of ammunition. Some of the guns which had stood outdoors at 20° would not perform with Winchester and Western Hi Speed Shorts, which indicates that the gun may be marginal in handling this type of ammunition in cold