

Report# 920431

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Work Order# 481167

## MODEL 700 STAINLESS STEEL, DESIGN ACCEPTANCE

REPORT TEXT:(cont.)

ACCURACY:

Two rifles of each caliber were accuracy tested at 0, 2000, and 4000 rounds.

The following ammunition types were used in the accuracy testing:

7MM Rem. Mag.	R7MM3	175gn. P.S.P.	lot# M-22SC 8423
300 Win. Mag.	R300W2	180gn. P.S.P.	lot# M05YC4711
338 Win. Mag.	R338W1	225gn. P.S.P.	lot# L18 PC5323
7MM Wby. Mag.	R7MWB1	140gn. P.S.P.	lot# P10PB-3023
2506 Rem.	R25062	100gn. P.S.P.	lot# L20ID 1883
280 Rem.	R280R3	140gn. P.S.P.	lot# R05 MC 8707
270 Win.	R270W1	100gn. P.S.P.	lot# N17 FC 4925
3006	R30065	180gn. P.S.P.	lot# N23 FA 7913

A Lyman "All American" 20X scope was used.

STRENGTH:

One rifle of each caliber was subjected to a high pressure load with a plugged bore. Specific information pertaining to the strength test can be found in Appendix D.

S.A.A.M.I. DROP:

One rifle of each caliber was dropped onto a one inch thick, 85+/-5 Durometer rubber mat located in building 52-1 A.

PROCEDURE:MEASUREMENTS:

TRIGGER PULL: The hook of the trigger pull scale is placed at the center of the finger loop on the trigger. The scale is then pulled up and to the rear, two finger widths above the comb. An average of three readings is taken for each rifle.

SAFETY ON/OFF FORCES: The Hunter LO-10 spring scale is used with a six inch extension and a "v" tip. The tip is pressed against the safety button with the extension parallel to the direction of safety arm movement. The peak force is recorded for each cycle of the safety arm. Three readings were taken for each direction of safety arm travel. All measurements were taken with the gun cocked.

HEADSPACE: The min. plug is placed in the chamber. The Bolt is then closed over the plug. If the Bolt fully closes on the plug the next higher plug is tried. The recorded reading is the last plug that the Bolt would fully close on.

FIRING PIN INDENT: Both ends of the copper crusher are burnished to remove any burrs. The crusher is then placed on a dial indicator base and the dial set to zero. The crusher is then placed in the crusher holder and placed into the chamber of a rifle. The rifle is then fired on the crusher. The crusher is then placed back on the dial base and the dial indicator point is placed at the bottom of the firing pin indent in the crusher. The reading on the dial indicator is the firing pin indent. An average of three readings was taken for each gun.