

REMINGTON ARMS COMPANY, INC.

INTERDEPARTMENTAL CORRESPONDENCE

Remington

DEFENSE

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"CONFINE YOUR LETTER TO ONE SUBJECT ONLY" _____

RESEARCH TEST and MEASUREMENT REPORT - Report No. 821601

M/700 CLASSIC.300 H & H MAGNUM - DESIGN VERIFICATION AND PRODUCT ACCEPTANCE

Prepared by: J. Baggetta

Date Prepared: 1-19-83

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J.H. Hennings, / R.E. Nightingale,
Foreman-Test Lab / Foreman-Measurement Lab

Signature

Date

C.E. Ritchie,
Sr. Supervisor - Testing,
Mens. & Mech. Analysis Lab

Signature

Date

TEST & MEASUREMENT LAB REPORT

REPORT NUMBER: 821601
 REPORT TITLE: M/700 CLASSIC 300 H & H MAGNUM - DESIGN VERIFICATION AND
 AND PRODUCT ACCEPTANCE
 MODEL(S): 700 CLASSIC
 GAUGE OR CALIBER: 300 H & H Magnum
 DATE: 6/9/82
 WORK ORDER NO.: C-5010-000
 PART NAME:
 DESIGNER/ENGINEER: P. Nasypany

TEST TYPE:

1. PHOTO LAB
2. STRENGTH TEST - NO. OF GUNS TESTED _____
3. FUNCTION TEST - NO. OF GUNS TESTED 5
4. ACCURACY TEST - NO. OF GUNS TESTED 5
5. MEASUREMENTS - TYPE: Static
6. ENVIRONMENTAL TEST
7. AMMUNITION TESTING & EVALUATION - TYPE: _____
8. VISUAL EVALUATION - _____ OUT OF _____ GUN SAMPLE
9. ENDURANCE - NO. OF GUNS TESTED: 5

NO. OF ROUNDS PER GUN: 60

TOTAL ROUNDS FIRED IN TEST: 300

AMMO TYPE: MAGS. _____; TARGET: _____

RIM FIRE _____ CENTER FIRE X

REMINGTON ARMS CO. INC.
Firearms Research Division

Report No. 821601

January 19, 1983

TO: J. H. HENNINGS
FROM: J. BAGGETTA
REPORT TITLE: M/700 CLASSIC 300 H & H MAGNUM - DESIGN VERIFICATION AND
PRODUCT ACCEPTANCE

ABSTRACT

A request was received from P. Nasypany, Current Firearms Design, to field function and accuracy test 5 M/700 Classic 300 H & H magnum rifles.

SCOPE OF TEST

To evaluate the performance of five (5) Classic 300 H & H magnum rifles for Design Verification and Product Acceptance.

TEST RESULTS

A. Field Function Test

- o Five (5) rifles were fired 60 rounds each for a total of 300 rounds. No malfunctions occurred on any of the rifles.

B. Accuracy Test

- o Four of the five rifles were within Remington Standards which is 3.5" for a 5 shot group. The remaining rifle was over spec., the average of the three groups was 3.72".

TEST TEXT

A. Field Function Test

- o No feeding problems or malfunction occurred during the Field Function Test. Two brands of ammunition, Remington and Winchester, were used in this test.

B. Accuracy Test

- o The accuracy results on four of the rifles were within Remington Standards. One rifle, Serial No. B6386736 experienced accuracy problems with the first and third groups. The mean was .22" over the spec. (Mean of the group was 3.72" for this rifle). For all accuracy information, refer to Appendix "A", Data Sheet No. 1.

TEST PROCEDURE

A. Measurements

- o Static measurements were taken by Test Lab personnel. See Appendix "A", Data Sheet No. 2

B. Field Function Test

- o The Field Function Test was run at the Ilion Fish & Game Club 100 yard range. The test consisted in shoulder firing of 5 rifles cooling every 20 rounds. (Able to hold barrel in hand) Five men were used to fire the rifles incorporating the round robin system. Each man took 20 rounds of each bullet weight and ammo type and fired 5 rounds slow, 5 rounds medium, 5 rounds fast and 5 rounds various feed rate (slow, medium, fast).

C. Accuracy Test

- o The accuracy test was run in the plant 100 yard range using the gallery accuracy device. Three five shot groups were fired with each rifle. Remington Standard for group size is 3.5" measuring from center to center. Remington 180 gr. Pointed Soft Point was used for this test.

D. Ammunition

- o Remington - 180 gr. - Pointed Soft Point
- o Winchester - 180 gr. - Silver Tip

E. Test Rifles

Rifles used in Field Function Test:

M/700 Classic 300 H & H Magnum

B6386567	B6386692
B6386593	B6386736
B6386665	

F. Remington Standards

There are no Remington Standards for .300 H & H Magnum. This test was compared to .300 Winchester Magnum. This test was compared to .300 Winchester Magnum with these standards:

<u>Headspace</u>	<u>Safe On</u>	<u>Safe Off</u>	<u>F. P. Indent</u>	<u>Trigger Pull</u>
Min. +.000"			Min. 018"	Min. 3 lbs.
Max +.010"	None	None	Max. 026"	Max. 5 lbs.

" APPENDIX " A "

Data Sheets

Data Sheet No. 1
Report No. 821601
6/18/82

M/700 - 300 H & H MAG DESIGN VERIFICATION - ACCURACY TEST

GUN	GROUP NO.	SIZE	HOR.	VERT.
5) 6736	1	4.55	4.28	2.85
	2	1.90	1.40	1.30
	3	4.70	1.20	4.60
	Avg.	3.72		
4) 6692	1	3.10	1.40	2.90
	2	1.90	1.35	1.85
	3	2.15	2.10	.50
	Avg.	2.38		
3) 6665	1	1.80	1.35	1.55
	2	2.20	2.10	1.75
	3	2.90	2.40	2.50
	Avg.	2.30		
2) 6593	1	3.35	2.90	3.00
	2	1.25	1.15	1.20
	3	2.00	1.80	1.00
	Avg.	2.20		
1) 6567	1	2.40	2.15	1.35
	2	2.10	1.90	1.75
	3	3.05	3.05	1.40
	Avg.	2.52		

Test conducted - Gallery Accuracy Device 100 yds. - Grps. measured - C. to C.
Rotation fired to keep bbls cool. Gun 1 - Group 1 - Gun 2 - Group 1 - etc.

Rem. 180 Gr. PSP Code S218 3536

700 CLASSIC 300 H + 14
MEASUREMENT DATA Sheet

Rifle No.		Headspace	Safe ON (lbs)	Safe OFF (lbs)	Firing Pin Indent (in)	Trigger Pull (lbs)
B6386567	OK	583	350	.022"	575	
B6386593	OK	533	483	.023"	550	
B6386665	OK	550	400	.0225"	525	
B6386692	OK	600	347	.024"	547	
B6386736	OK	608	433	.0226"	542	
<p>* Note Remington Standards:</p> <p>There are no Remington standards for 300 H+H Magnum This test was compared to 300 Winchester Magnum with these standards:</p>						
		Headspace	Safe ON	Safe OFF	FP Indent	Trigger Pull
Min	±.000				.018"	316.5
Max	±.001"	None	None	.026"	512.5	