Firem Chair Division Onogrino Capart February 1980 - Hradust Development

Jage

jesting so continuing on the current prothypo model. a total of 3752 rounds have been fined ving 2-3/4 magnum loods writtout major component failure

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The fore and tube designs were tested with sales factory result. During the festing of the new fore ease and fube designs premature tracking of the receiver was selected

model 7400-7600

Twelve Production Model 7400 rifles, consisting of a selection of 30-06, 270 and 7mm Exp. Cam. Calibers were successfully tested for bolt velocity verification.

ZIma Leismie

The breach boot pung for and displaced problems from the feeled. Turnets has been presented from MAP to for our feels feeting use.

Aszi Mongulator

There handling conveyer sighter dies rescured norging from \$ 20 h +0 33M. On order will be usue to fabruate the septem in larly march.

High Energy Beam Copplication

of the EDL welded m/1100 slike block and action bass are expected in much.

Wood Decorating - Samples of the Ducks Untimited emblem carried in the m 1100 stock were received. additional samples of loser carved in Much!

Tegal Ejector booking modifications have been made to support the outside of the barrel to reduce the bulge in the ones of the LT Ze exector. Four barrels have own produced and are in that.

Quetless Extractor

Prace

Astisfactory testing on the small coliber sweetless extractor without the onti rotation projections has been conflicted for from mittal to production.

States Caport

Broduct Development

100 17-20 Lendles

hail & filet que vece testes sois factor. A special fuel to the sons gerls was successfully completed. He guess were accepted.

Model 7400 - 7600

factive Production model 7400 rejles counting of a relection of 30-06, 270 and 1mm Exp. Gam. Caliber were successfully fester you boil velocity verification.

Gereiver marking drawings are being prepared for the Designation of Model of and to. Drawing framemattels will be make once location has been approved by Matching.

Satisfacting production ramples of the base grip cap have been made on a surgle centy die.

1 /870 Competition Trap

Production of this new model is in Islay as a result a sistence of the action bus and for and tuke absently. Three design modefination have been fested.

The first disign was the present production whe

with the thread Changes to increase the area for the the threaded rection by approximately 10%. The complete action bor is copper increased to nother microcarded one heattreated. Using an accelerated fring tests, one assendly went to 15000 november with the true failing next to the action base. Two areandlies went in to 25000 loverablewithout failure. A slow rate of five test was conducted to determine if the rate of fining was a factor. Two assemblies went to 15,000 without failure.

The record derign too knows the same as the first with the exception of a shock. ning added to the fest own between the fore end nut and the gas expender. Using the accelerated fixing that meland one assembly went to 25,000 nounds without failure

He shird design desters was fore end faction humited. heavier was thubin, come fine the assembles went to soon now row with selver under the accelerated mode of feeting.

Post results induction that the first design warry she swonders production tube is catifactory. Onoseen Engineering feels that for said full monthly the Results was tube be pursued

MONTHLY PROGRESS REPORT - February 1980

2-27-80
JWBrooks:T

MODEL870 COMPETITION TRAP SHOTGUN

While using production guns to test fore end tubes to solve the breakage problem, premature cracking of the receiver was encountered. To further investigate the problem strain gage measurements were made on the standard Model 870 shotgun and the Model 870 Competition Trap shotgun. Measurements at the rear of the receiver ejection port opening on the M870 Competition Trap shotgun and a standard M870 shotgun show similar readings.

Measurements on the side of the same locking block in a M870 Competition Trap shotgun and a standard M870 show similar results. When the magazine cap is loosened one turn both guns show similar strain gage measurements but the reading is double that which is registered when the caps are tight.

Two production guns are in test and the magazine caps are being checked every 25 rounds and tightened if they have loosened. One barrel retaining sleeve has been replaced after 400 rounds because the tab holding the detent spring was bent, preventing the detents from fully engaging the magazine cap. One gun has a heat treated fore end tube with greater area thru the thread section and the other gun has a soft thick wall tube.

The guns have 8,000 rounds to date.

During the intensive besting of the new fore end two designs the premature cracking of the recieve was detected. Inteal excurrent festing of the prototype guns shows cracks developing at the near of the existor post et 37 roc, 35:30 one 30,000 hounds. Cracking of receiver on production guns began to show after 5,000 nounds, Two M/870 control went to 25000 nounds without cracking the receivers.

To fate investigate the problem strain analysis texts were conducted on the m/870compteter Trop gun receive using CT barrels onde a standard m/870 barrel. Text results showed semiler stress levels. Text a standard m/870 receiver showed semilar result.

Fuelker stain analysis measurement are be, made to the locking block area. The state of the production que are consently on but to determine the relation of t

Balt action Carbine

Twie barreled betwoon for each of four celeber will see ready for anembly the first week in March. The lates system on the floor plate has been redesigned to elemente letted releasing during siving. A prototype mobil has seen made and preliminary testing indicate satisfactory results. additional mototype festing weil he conducted.

model 700 But lock

I number of both lock daugn that
provide the shroter with the ascilly to
look one unlose his rifle with the
Safety in the on position has been
leveloped. Four prototype of different
configuration have been furnished.
Design revisions are being made
to improve aesthetics.

Two ine control had been kny to sind out of the sure respected by many the Sure sure respected by many the South fine control have been furnished according to the state of th

The Tegral Exects

Traising modification have been to reduce support the outside of the basel to reduce the bulge in the area of the LT 20 exector. Town prototype barrelo base been fairester for testing. a total of 60 wound have been futer through each barrel Testing has been contacted due to higher privilies.

(xwetless Extractor

Latisfactory testing on the small caliber revellers estisation without onte notation projection bas been completed. Drawings are being finaline for transmitted to production

all tooling to coin anti rotation projections into the m/188 regular m/200 Regular hand; m/200 may be the solt head wied be completed in med march.

Center Wrice Line

The federation of the suptime is near completion. Yendor run of is expected the just week in marches suptime installation and starting at them is estemated to be late lepit. The final deaft version of the m/100 Owners monual bas been approved by hegal and marketing Department. The deaft will be reviewed with final Communications One and producted.