

RESEARCH DEPARTMENT
FIREARMS RESEARCH DIVISION
MONTHLY REPORT - JUNE 1980

HIGHLIGHTS

PROCESS DEVELOPMENT

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- Four Slide Machine The four-slide machine has been ordered and will be ~~ready for tooling~~ *delivered to the tooling vendor in August 1980.*

A wire E.D.M. has been selected and a purchase *requisition* ~~order~~ *has been* prepared and sent to purchasing.

- Integral Ejectors *for* Model 1100 - 12 Gauge Trial & Pilot barrels have been satisfactorily tested and are in full production.

- Rivetless Extractors Regular size rivetless extractors are currently being assembled in Model 700 - 7mm-08, Model XP-100 7mm BR, and Model 7400 - 7600 pilot run and production rifles.

- Auto-Drill Line ~~It appears that the~~ *startups* can be scheduled for late July. First will be the chip and filtration system and then the machining line.

- *Updated* ASEA Manipulator *Project* ~~Updated economics~~ *show* project a \$70M per year savings at a 26% ROI. These figures include additional expenditures of \$6500 for a Schaeffitz LVDT receiver repositioning system.

(9) • Laser Welding Metallurgically sound welds of the ~~Model 1100~~ 1018 slide blocks were obtained by EDL. Welding tests of the ~~Model 1100~~ powder metal and ~~Model 1100~~ 8620 slide blocks are in progress.

(10) • Laser Wood Carving Artwork for the Model 1100 LT-20 Ducks Unlimited gun and other designs are ready for review.

(11) •

HIGHLIGHTS

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MODEL 700 COMPETITION TRAP SHOTGUN

Model 870 Competition Trap Shotgun
Two solutions to the locking block problem have been satisfactorily tested. ~~High stress on the vent rib seems to be the cause of breakage and parts coming loose~~ *Buffered Pistons are being tested as a possible solution to Rib failure.*