

MONTHLY PROGRESS REPORT - January 1980

MODELS XSG - XPG and HPX Auto - Pump Shotgun

The XSG model being tested using 2 3/4" Magnum loads only is currently at 3000 rounds. This gun will continue testing after inspection and project priorities permit. A major concern in the test is the action spring, which is being monitored every thousand rounds. At 3000 rounds it has set 1.560. No Major breakages have occurred.

The XSG problem areas are being investigated by the Research Design Group for correction. Of concern are locking system, action bar slide block attachment, action spring and feed systems. In addition, modification for an expansion/cutoff gas system is being evaluated.

Designers have been
~~There are presently six engineers~~ assigned to expedite this program.

*I think the Block - actuating
 system is being designed for better
 distribution at the block. ~~the~~ design
 to reduce
 the effect of the block and
 the system.*

Clark

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1-30-80
WABalcewiczHIGH ENERGY BEAM APPLICATIONS

Two designs of the Ducks Unlimited emblem, laser carved in stocks were received from Lasermation. Stocks were finished and forwarded to Marketing for ~~evaluation~~.

Lasermation will proceed with two ~~stock~~ grip ~~and~~ designs. They cannot carve full fore end radius with the current tooling. Some fore end designs will be narrowed and others reduced by approximately 70% for sample preparation. Lasermation ^{estimate} ~~claims~~ they will be able to handle the full fore end radius with an investment of \$10M to \$20M for tooling and 6 months of development time.

Free machining steel samples were forwarded to EDL for welding ~~conditions~~ ^{scouting}. Preliminary results are expected in March 1980.