

DRAFT

FIREARMS DESIGN

Estimated 1975
\$ 1,171,000

Forecast 1976

A special trap rib barrel for Model 1100 30" has been developed and is scheduled for 1976 announcement. Design for 28" and 34" barrels is in progress.

Improvement program for the Model 1100 - 12 Gauge is continuing. A new operating handle detent system with steel slide block has been designed and released to production. Design modifications to receiver buffer, fore end insert, magazine cap and magazine cap detent system are in progress.

Design work on the Bicentennial Model guns has been completed and drawings released for pilot lot operations.

The Model 1100 - 20 Gauge LightWeight program has been finalized and is scheduled for 1977 announcement.

Development program for a new generation Model 742-760 rifle has been initiated with model announcement scheduled for 1978. Prototype models have been constructed and are in design test. A new barrel extension and gas system have been developed. Twenty prototype models are being fabricated for endurance and function testing.

A design program to continue improvements to the Model 1100 Shotgun has been implemented. Design revisions to the breech bolt, fire control, receiver roll marking and a new contoured receiver port are in progress. Preliminary prototype models have been constructed and tested. The program is being expanded to improve endurance life of the 12 Gauge 3" Magnum and Target grade models.

FIREARMS DESIGN Continued

Development program for the 3200 Shotgun competition grade has been completed and is scheduled for 1976 announcement. Design programs for the 3200 Shotgun small gauge barrel sets has progressed through the testing stage. A project is being prepared for product manufacture. Design work is continuing on the single barrel trap gun and lightweight model versions of the 3200. The program to reduce the 3200 factory cost and improve function is continuing.

A program is in progress to add the .308 Caliber to the Model 700 Varmint Special line. Model announcement is scheduled for 1976. In addition, a program has been initiated to develop a Model 700 for the new 8mm Rem. Magnum cartridge which has been developed by Bridgeport Research.

Product improvement programs for Models 700, 600 and 788 are continuing. Improvements to the safety mechanisms are being reevaluated for redesign. Design revision to the Model 788 bolt handle body joint has been completed and released to production.

TARGETS AND TRAPS

Estimated 1975
\$ 25,000

Forecast 1976

A new skeet trap has been developed and the production trial and pilot lot is being tested for introduction in 1976. A new line of mechanical traps is being developed.

PROCESS AND MATERIAL RESEARCH

Estimated 1975
\$ 215,000

Forecast 1976

The Numerical Control Model Shop has been principally involved with the fabrication of model components for experimental prototypes. Pilot production parts for model design revisions were produced and reduction of one to three months lead time was realized. The Shop has continued to produce short-run components for the Production Department. In addition, tooling such as cams, hydraulic manifolds, GFM barrel formers and conomatic guide cams have been fabricated, reducing delivery and production lead times.

The Computer-Aided Design facilities have provided continuing firearms design and test measurements support. A program has been developed for the Quality Control Section to maintain an active file of all production gauges. Also, several programs for defining and compiling N/C checkering data were developed. A new program for editing checkering data on tape was developed. Development of dry cycle machine software for single unit operation has been completed. The program is being expanded to control up to seven machines.

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