

MODEL 600 "TRAILMASTER" RIFLE

The Production Department reported that the Model 600 rifle is on schedule to warehouse in mid-March, 1963.

The Research and Development Department reported that design for 30-30 Winchester caliber is proving extremely difficult. The problem is in the magazine feed and they feel the most workable alternative will be either a special rotary box feed or tubular magazine. Either will increase product cost, particularly the latter.

The magazine problem results from the short action of the rifle limiting the available room needed to load the cartridges with the rims of successive cartridges being ahead of the ones below. Even with a properly loaded magazine, the recoil occasionally causes a cartridge to jump out of its proper position, and a failure to feed results. Research is continuing work to develop an economical feeding magazine. 83

The approval status of the rifle is that the basic prototype has been approved by both Management and the Committee with the following changes having been displayed to and approved by the Committee only:

Bolt Handle

The shape of the bolt handle has been modified slightly to accommodate a newly offered adjustable power scope.

Rear Sight

Allen Head screws requiring the same size wrench have been incorporated for windage and elevation adjustment. A suggestion at the June meeting that a wrench to fit these screws be packaged with the rifle was not resolved at that meeting. The Chairman requested this be done outside the Committee.

CALIBER 6 MM REMINGTON

Research and Development recommended that this cartridge being developed for the Model 700 rifle be produced with a 100 grain, rather than heavier bullet weight, to provide a superior cartridge. They reported that the hundred grain bullet, loaded to a chamber pressure of 52,000 psi, develops a muzzle velocity of 3200 feet per second. This is superior to the 3070 feet per second muzzle velocity of the caliber 243 Winchester 100 grain bullet. Conversely the muzzle velocity of a caliber 6 MM cartridge with a 110 grain bullet is only 2900 feet per second. Ammunition with the heavier