

SHOTGUNS - contd.ADHESIVE-FASTENED VENT RIB AND PHOTO-ETCHED MATTING

R & D reported that the failure of the adhesive-fastened Vent Rib has been analyzed. To obtain the proper adhesive film thickness, several layers of .001" thick film were used. Analysis at Ilion and discussion with Du Pont Electro-Chemicals Dept. indicated that air entrapment between the layers caused poor bonding. Subsequent tests with this thin film have produced these failures. New solid film to the required .008" thickness has been received and these Barrels and Ribs are being re-bonded. These Barrels will be back into test by November 1.

The adhesive being used is not the strongest available, however, it is flexible. Tests have shown it to be acceptable at -30° F and at gun operating temperatures.

After testing has shown this process to be acceptable, Operations Committee approval will be requested to release to production.

Initial use of this process should be limited since reproducibility must be proven in production. The gun on which to start is to be determined.

The last piece of equipment for photo-etch matting should be received October 23. When this is installed, trial and pilot operations will start. This process is compatible with the current welded or brazed rib.

MODEL 1100K AUTOLOADING SHOTGUN
(Introduction 1978)

R & D reported that the first shooting prototype gun would be completed by March, 1973. This gun will include the Model 1100 gas system. Design will be released for preliminary cost estimating by January, 1974. Additional prototype guns including the new gas system will be made following review of the first gun.