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General Staff/AGA/Ordnance
Head of the Operations Department
Ordnance Engineering Service
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General Staff/Operations Department
Instruction Department
File 2, May 29th

Subject: Dror machinegun - Series B

Below are results of the testing and our conclusions regarding the Series B Dror machine guns.

a. Drawbacks and stoppages

1. The magazine:

- a) The magazine loosened itself and fell out several times while shooting.
- b) Loading the magazine is difficult and its replacement is not possible at the necessary speed due to proximity to the ground. Therefore the angle of the machine gun's rotation on the bipod must be increased, so that the magazine may be loaded when the gun is tilted slightly backwards.

2. The bipod:

When the bipod is folded in half or backwards, it opens when a man moves with the machine gun.

3. The trigger mechanism:

Several stoppages occurred in the trigger mechanism, which were fixed by the IMI armorer.

4. Feed stoppages:

Many feed stoppages occurred on automatic fire, most often they were caused by the magazine not fitting the gun.

5. Extraction:

There were many cases of hard extraction. Two rims were ripped, two extractors broke after 300-400 rounds fired.

6. Disassembly and reassembly:

Detaching the stock from the body was difficult and made possible only through the use of force.

7. Rate of fire:

Exact rate of fire was not tested, but it is greater than the rate of fire of the previous series.

8. Vibration and movement of the machine gun:

The machine gun has a stronger felt recoil than in the previous series. The movement of the machine gun makes stable holding and aiming difficult.

b. Accuracy

The machine gun was tested for accuracy and compared to the Bren and MG-34 machine guns. The test shooters were instructors - first-rate marksmen.

Below is a performance table for the three guns. The dispersal area was noted, since the shooters used a 1.2 x 1.2 meter target.

Gun	Range	Rounds	Fire type	Target type	Amount of hits on target
Dror	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	20
MG 34	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	30
Bren	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	36
Dror	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	9
MG 34	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	18
Bren	200	40	Regular automatic fire, service bursts	1.2 x 1.2 meter target	29

c. Summary of changes introduced

It has to be noted that all the changes introduced in Series B improve the tactical usefulness of the machine gun, allow easier field use, full use of cover and rapid movement with the machine gun.

d. Additional necessary improvements.

1. Sling studs

The machine gun has been delivered to us without sling studs. These must be added in several places on the machine gun, so as to find the most comfortable manner of carrying the gun on its sling.

2. Tripod

The machine gun had no arrangements for mounting it on a tripod. We had noted in our previous letters the necessity to arrange for a tripod or a modular link making it possible to mount the gun on a Bren tripod.

e. Conclusions

Our experience with this machine gun at shooting ranges and during training in various conditions we can conclude that the Dror's basic qualities make it appropriate as an infantry squad machine gun, however its final adoption by the army must be conditioned on the following:

- a) Absolute reliability of the machine gun's mechanical functioning.
- b) Improving the accuracy of automatic fire to the levels shown in combat by Bren machine guns.

c) Easy assembly and disassembly, without the need to use force to separate the various parts.

5. Note

I have been informed that, of this experimental series, over one thousand machine guns have been sent to production. I see the need to note that I see this as a most reckless step by the arms production plants. We believe there is no place for entering the machine gun into mass production before all the problems are solved with the preconditions of its adoption.

Major Izhak Brown,
In the name of the head of the instruction department