

*XP-100
Scope mount*

February 8, 1963

Mr. D.P. Bushnell
D.P. Bushnell & Company, Inc.
Bushnell Building
Pasadena, California

Dear Dave:

It was a wonderful experience talking with you during the Chicago Convention about our mutual problems and accomplishments. I certainly appreciate your interest in our new XP-100 pistol and also your initiative in taking the lead for providing scopes and mounts for the sports writers so that they can do a more efficient evaluation of this pistol.

I received your telegram and immediately started to measure several hundred of our pistol receivers as they were coming off the assembly line. We actually have a buildup of tolerance on the rear breech ring of which I was not aware. This buildup in general is being corrected by polishing and finishing in a different position for the machining operation for the top of this breech ring. Naturally this would affect the height of a mount to support a scope. The figure that we gave you on the drawings of .115" would probably suffice but after a statistical sample was taken, a figure of .123" appears to be in the mean of the range. We are redimensioning the drawings and will forward a copy to you as soon as possible.

In the meantime I called your Mr. Al Akin Wednesday and discussed this problem with him. It appears that he has a better suggestion for a mount which eliminates any error of tolerance buildup on the breech ring; that is, his mount will be supported directly on the front breech ring. This dimensioning, by the way, is held very accurately because this receiver is basically the same as the Model 700 and the O.D. of the receiver is determined by a turn and ground process wherein the utmost accuracy and dimensions can be maintained. Our problem of course, as mentioned above, was in further approach on the rear breech ring after the turning and grinding operation. I think Mr. Akin's approach is the best one and will certainly give the customer the better combination of scope, mount and pistol.

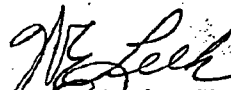
Mr. D. P. Bushnell

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Les Bowman and Tom Frye are having a wonderful time with the new pistol and I believe the results will spur some of the other sports writers toward a more impressive evaluation of this combination of pistol and scope.

As far as I know, you have an exclusive position on pistol scopes and I hope subsequently that we mutually enjoy an increase in sales for pistols and your Phantom Scope. Please advise if I can be of any help in the future.

Very truly yours



W. E. Leek, Chief Designer
Firearms Design Section
Ilion Research Division

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