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Precision

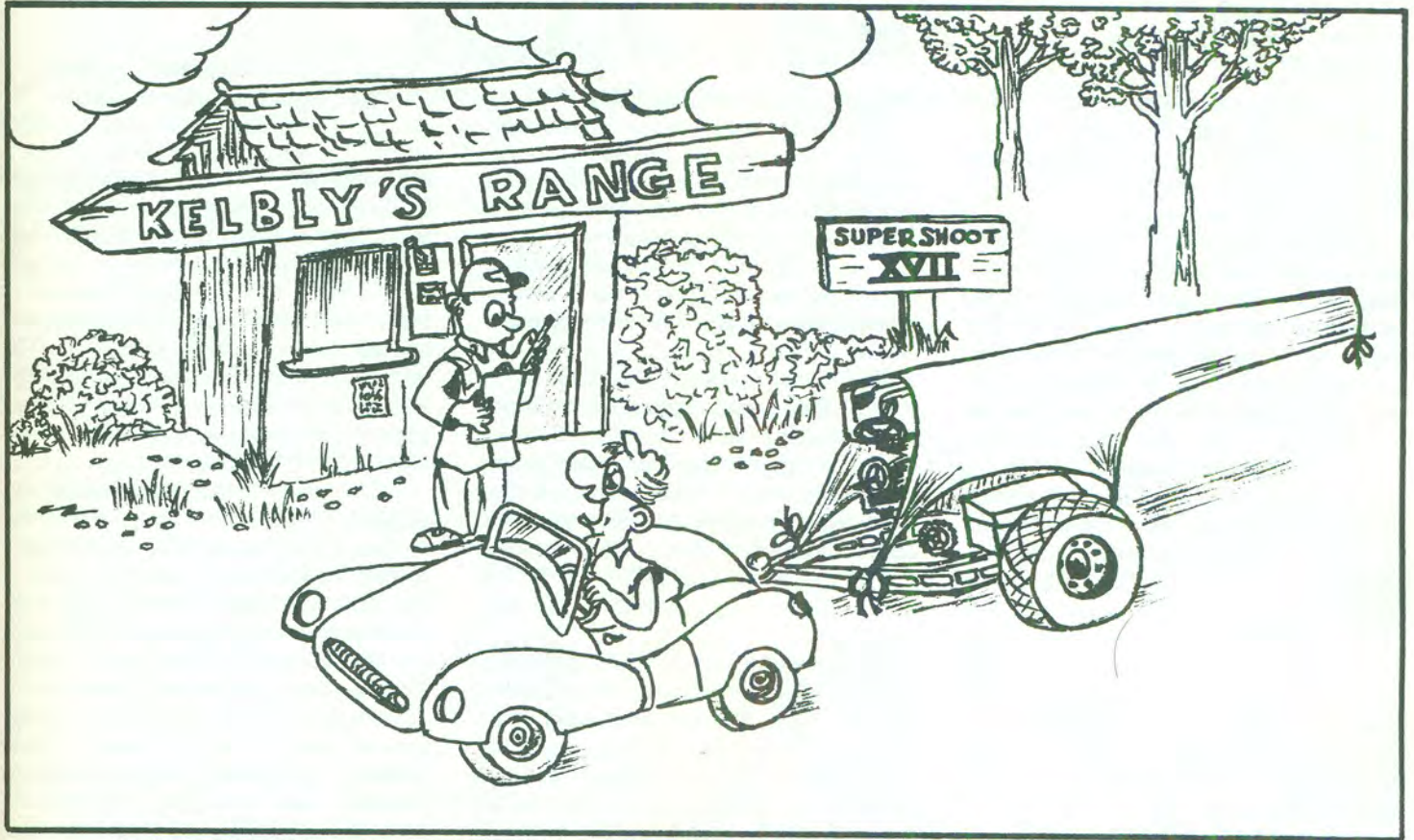
SHOOTING

Dealing exclusively with the topic of extreme rifle accuracy



RON HOEHN
of The Benchrest Rifle Club of St. Louis
(See Letter to the Editor on page 36 in this issue)

POMP and CIRCUMSTANCE



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ing, the hardness number is read on the dial gauge. Each division on the dial gauge represents a distance of .000080" of penetration. Because of the reversal of the order of

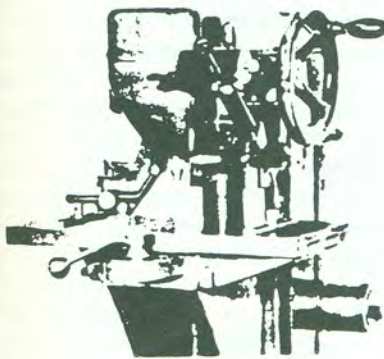


FIG. 3
VICKERS HARDNESS TESTER

the numbers on the dial gauge, high numbers are associated with a shallow impression in hard materials, and low numbers with a deep impression in soft materials. When testing soft materials, a 1/16" diameter steel ball with 100 kilogram load is used and the hardness number is read on the "B" scale. When testing hard materials a dia-

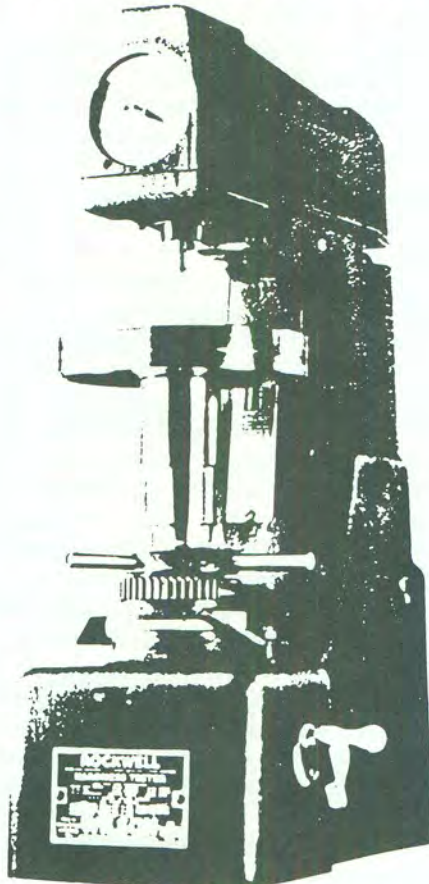


FIG. 4
ROCKWELL HARDNESS TESTER

mond cone or "Brale" is used with a 150 kilogram load and the hardness is read on the "C" scale. Tungsten carbide and similar very hard materials are tested using a reduced load of 60 kilograms to prevent cracking of the diamond. Pressure on the diamond point may reach three or four million pounds per square inch when testing very hard materials.

Rockwell Hardness testers are widely used for production testing and process control because of their speed and the ease with which they may be used.

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