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ADVANCED SOUND SUPPRESSORS FOR SMALL ARMS

The paper examines the current state and the need for improving sound suppressor designs for small arms to increase their efficiency. Special aspects of sound suppressors and positioning systems used within the ATO (antiterrorist operation) zone are reported. Information on major sound ranging systems and the status of their development in Ukraine are specified. Descriptions and specifications of sound suppressors for small arms developed in the Russian Federation are provided. The state of the world's development of sound suppressors and their characteristics for the weapon using a high-energy ammunition are specified.

It is demonstrated that high-performance sound suppressors for small arms are created in Ukraine. They are standardized using the Hartmann–Sprenger effect and have conical and spherical baffles. Conclusions are drawn and the basic lines for designing advanced sound suppressors for small arms are presented.

Keywords: *sound suppressor, sound ranging systems, development and improvement, sound suppressing.*

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