

# Further Development of the Non-Lethal Multipurpose Launcher

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The need for multipurpose launchers with replaceable non lethal effectors like nets, pepper, markers or tear gas has rapidly increased due to the demand for an adequate tool to act or react within an appropriate matter in order not to provoke an escalation in a peacekeeping situation.

This presentation describes the further development of a multipurpose launcher system for non lethal effectors, designed for an effective distance between 25 and 300 meters. It is based on the size of the Panzerfaust III and is a reaction-free launch tube with a 90 mm calibre. The effector-weight is round about 1 kg with a total projectile mass of 1,7 kg. The launch velocity is 100 m/s.

The new improvements are based on a non-explosive driven cold gas acceleration of the projectile. This is promising a big advantage due to the safety requirements and cost of a single shot. Further investigations are done with additional non-lethal payloads for the Multipurpose launcher. One of these new payloads offers a capability to shoot an expandable wire barrier to protect access to buildings or streets.

Besides the net effector development with a net diameter of 9 meters, some possible future payloads such as electromagnetic Jammers and High Power Microwave granates will be also shown.

