SYDOR TECHNOLOGIES

PERSONAL ARMOR TESTING EQUIPMENT

R&D, NIJ 0101.06, NIJ 0106.01, STANAG 2920

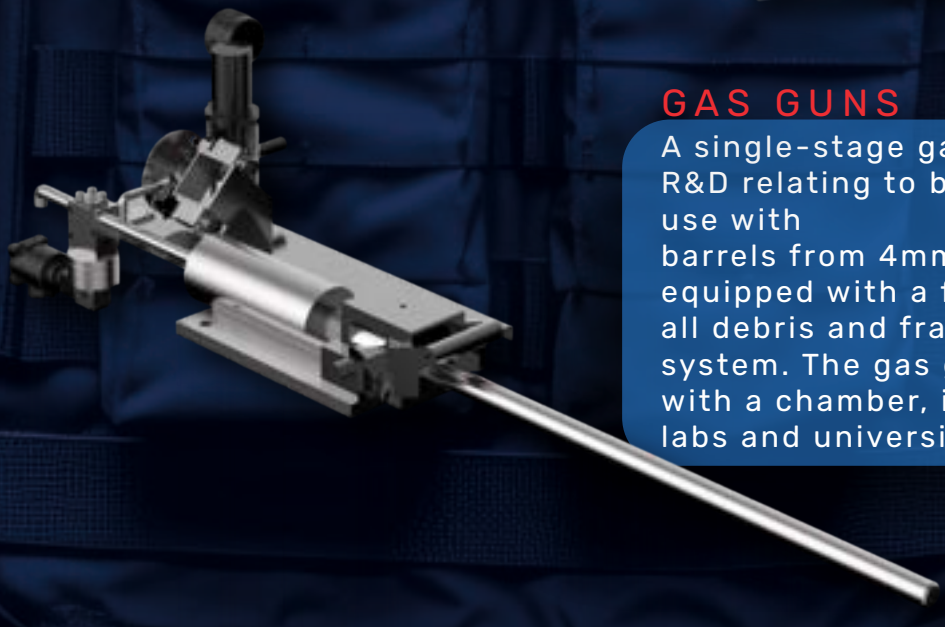
COMPLEX MEASUREMENTS—CRITICAL RESULTS

WHAT WE DO

Sydor Technologies provides specialist expertise relating to ballistic and impact testing for the defense, security, science, and research industries. Sydor can equip complete ballistic testing ranges or individual components such as test guns or measurement systems. We provide complete instrumentation, hardware, software, and installation services for testing to STANAG and NIJ certified standards.

TEST GUNS

Test gun kit that allows rounds from .22 to 12.7 x 99mm to be fired from one universal receiver. This system is suitable for many body armor tests, including but not limited to NIJ, AEP, STANAG, and VPAM. The system can be remotely operated and is supplied with a portable range table.



GAS GUNS

A single-stage gas gun that is ideally suited for R&D relating to body armor. Sydor's design is for use with
barrels from 4mm up to 40mm in size and comes equipped with a firing tunnel and cabinet keeping all debris and fragments contained within one system. The gas gun system configuration, paired with a chamber, is highly recommended for test labs and universities.

COMPLEX MEASUREMENTS—CRITICAL RESULTS

STAB RIG

Sydor's Stab Rig is designed for the testing of personal armor and materials to examine resistance to stabbing by knives or spikes.

BALLISTIC LOAD SENSING HEADFORM (BLSH)

The BLSH consists of load measuring and penetration headforms used for the evaluation of helmets. This system enables a direct measurement of the dynamic loads the skull is subjected. This is determined by measuring the deformation caused by projectiles impacting the helmet. The forces can be correlated to risk of injury such as skull fracture.

BLUNT TRAUMA TORSO RIG (BTTR)

The BTT Rig is a superior alternative to clay-backed setups for body armor performance evaluation. The rig is used to determine the risk of potential injury resulting from behind armor blunt trauma.

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