

# LIVE RPG ACCELERATION



**TNO** innovation  
for life

With regard to dynamic testing of rocket propelled grenades (RPG's) warheads against armour, the inaccuracy of the impact location is always an issue. TNO has developed a tool for indoor live firing of RPG type warheads. It is developed such that the desired impact location and velocity is easily achieved. TNO's RPG accelerator can be used to fire live as well as inert or dummy RPG warheads. Tests can be recorded using close-up high-speed video, further enhancing the research possibilities.

## LABORATORY FOR BALLISTICS RESEARCH

TNO's Laboratory for Ballistics Research (LBR) is an independent indoor ballistics research facility. TNO offers engineering and evaluation of your ballistic protection items by means of numerous testing capabilities. These include all international ballistic standards or specific customer requirements.

The facilities include various indoor firing ranges handling any type of KE/HE projectiles ( $\leq 76$  mm) and weapon systems ( $\leq 105$  mm). The target bunker allows the detonation of up to 25 kg of high explosive material.

All experiments can be recorded using multiple X-ray pulsers (up to 1200 kV), Shimadzu ultra high speed cameras (1 million fps with 100 frame capacity) and computerised databases. Fully automated testing and registration procedures guarantee the constant quality of our test results.

- The facilities contain four indoor firing ranges and a massive target bunker.
- Three small firing ranges are available for KE rounds up to 20 mm caliber.
- The large 200 meter firing range can handle KE projectiles up to 40 mm.
- Fragmenting HE rounds up to 76 mm and weapon systems up to 105 mm can be tested at a range of 60 m.
- Detonation of up to 25 kg TNT equivalent high explosives is possible in the target bunker.

Developing protection against RPG?

Is static testing not an option?

Is aiming the RPG a problem?

Qualifying statistical armour against RPG's?

## Try our new live warhead accelerator

Complete dynamic warheads testing

Live warheads <90 mm diameter

Hit accuracy within 5 mm!

Real missile speed and ranges

Indoor->weather conditions controlled

Active and statistical protectionsystems



# TNO OFFERS INDOOR LIVE RPG ACCELERATION TO SUPPORT YOUR ARMOUR DEVELOPMENT

**TNO.NL**

## TNO

TNO is an independent innovation organisation that connects people and knowledge in order to create the innovations that sustainably boost the competitiveness of industry and wellbeing of society.

TNO focuses its efforts on seven themes including Defence, Safety and Security: TNO works on a safe and secure society by creating innovations for people working in defence organisations, the police, emergency services and industry.

## CONTACT

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