

FV-014

HIGHLY PRECISE LOITERING MUNITION SYSTEM (LMS)

Starting with a low signature launch from a portable launcher, the LMS flies to the target area. For reconnaissance and surveillance purposes, the mission includes a loitering phase over the target area. After target identification and Human-in-the-Loop locking, the LMS starts the attack phase with terminal guidance to the target. The mission ends with a pin point strike on the target.

FV-014 benefits from a wide range of Rheinmetall's sUAS product family and communality features, and is designed for mass production. The system uses the High Explosive Dual Purpose (HEDP) "TRITON" warhead from Rheinmetall, which is already in use with Hero 120 and will be complemented by an improved Electronic Safety and Arming Device (ESAD).

KEY FEATURES

- Max payload capacity 6 kg
- Lethal Payload Package (LPP) with approx. 4 kg (Warhead and ESAD)
- Strike range 100 km
- Flight altitude up to 3,000 m MSL (ISA)
- Max take-off weight (MTOW) 22 kg
- ~70 minutes flight time with MTOW
- Max speed to target >70 m/s; 250 km/h IAS (ISA)
- GNSS denied environment capable
- Up to 60 km data link range
- Electric propulsion system
- Day & night sensor
- High Explosive Dual Purpose (HEDP) warhead
- Designed for mass production
- Wolf Pack (Teaming) capable



CURRENT STATUS

The FV-014 LMS was first flown in public during Rheinmetall's Capital Market Day in 2025 and was successfully demonstrated to a potential NATO customer in February 2026. A contract with the German Bundeswehr for the FV-014 LMS was signed on 20 April 2026. The system is currently being qualified, and serial production will start in 2027.

D1_022e1126©Rheinmetall

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