

► DIGITAL SYSTEMS

10 June 2026

FV-014 Loitering Munition System

At ILA Berlin 2026, Rheinmetall presents the innovative FV-014 loitering munition system at booth G/300. This portable reconnaissance and strike drone bridges the tactical gap between reconnaissance and conventional artillery directly at the troop level. Weighing approximately 20 kg, the ‘kamikaze drone’ features an aerodynamic wing design with a quiet electric propulsion system. A 360-degree swiveling gimbal at the nose enables the observation of potential targets over extended periods.

With a flight duration of up to 70 minutes and a range of up to 100 kilometers (60 kilometers data link range), the system can operate safely from a distance. For precise target engagement, the drone is equipped with a highly effective HEDP (High-Explosive Dual Purpose) payload. This warhead is also manufactured by Rheinmetall and has a penetration capability of over 600 mm against armoured targets.



The FV-014’s advanced software architecture enables a single operator to control multiple drones in a swarm formation. Automated routines assist with navigation and target detection, while maintaining constant human-in-the-loop control. In addition, the drone operates reliably in scenarios with signal interference.

Controlled via an intuitive ground control station, the FV-014 integrates as a central operational element into the Rheinmetall Reconnaissance Network (AWV). In combination with systems such as the LUNA NG reconnaissance drone, a comprehensive situational picture is established to enable rapid engagement.

The drone, developed and produced entirely within the EU, is specifically designed for industrial mass production in high volumes. Following a successful demonstration for a NATO customer in February 2026, a framework agreement worth billions of euros signed with the German Armed Forces in April 2026 underscores the system’s relevance.

► Key facts

- The FV-014 bridges the gap between reconnaissance and artillery
- 70-minute flight time, 100 km range
- Designed and manufactured in the EU, built for mass production

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