

SIGMA

Fully Automated 155mm/52cal. Self-propelled Howitzer





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An advanced, truck-mounted 155mm/52-caliber self-propelled Howitzer, SIGMA delivers high-volume, long-range precision firepower with minimal crew requirements and maximum survivability. Designed for modern, data-driven warfare, the combat-proven TRL-9 platform combines autonomous operation, high mobility and advanced ammunition handling, providing artillery forces with a decisive operational edge.

System Highlights

SIGMA supports the full spectrum of 155mm NATO JBMOU-compliant ammunition, as well as modern fuzes and modular propelling charges, providing maximum flexibility across mission profiles. The fully automated system features a manual backup mode to ensure operational continuity under degraded conditions. Built-in training and simulation modes enhance crew readiness and proficiency.



Autonomous mission execution

Fully automated gun laying, ammunition handling, fuze setting, loading and firing operations, operating with a crew of 2-3 soldiers from a protected cabin. The all-electric, remote-controlled unmanned turret, significantly improves safety, reliability and maintainability.

Long-range precision firepower

Engagement ranges of up to 41km with standard ammunition and up to 70km with rocket-assisted projectiles (RAP). The system achieves a high-rate of fire of up to 8 rounds per minute, including advanced Multiple Rounds Simultaneous Impact (MRSI) capability, enabling several projectiles to strike the target at the same time for maximum effect. Multiple SIGMA units can be connected via wired or wireless communications and controlled from a centralized command post.

Mobility and survivability

Mounted on a high-mobility 10x10 wheeled platform, SIGMA delivers exceptional maneuverability, stability and

strategic mobility, enabling rapid redeployment across diverse terrains. The system transitions in and out of firing position in approximately 30 seconds, increasing survivability against counter-battery fire and enabling true shoot-and-scoot operations. Featuring 360° traverse and a wide elevation envelope, SIGMA delivers full fire coverage without platform repositioning.

Largest-in-class ammunition capacity

SIGMA carries up to 40 projectiles, 216 modular charge units and 45 primers in fully automated magazines, enabling sustained fire missions and extended operational endurance.

Gun Resupply System (GRS)

An integrated and automated loading solution that reduces logistical footprint and resupply time, while improving ammunition flow and availability. The end-to-end loading system significantly reduces crew workload and improves overall artillery unit efficiency by up to 30%. The GRS is adaptable to a wide range of artillery storage systems.

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Key Advantages



Autonomy

Automated mission execution with minimal crew



Precision

Long-range firepower up to 70km



Survivability

Unmanned turret and scoot-and-shoot operations



Endurance

High-capacity automated ammunition loading



Mobility

Rapid deployment and engagement

Technical Specifications

Parameter	Value
Range	Up to 41km (standard), 70km (RAP)
Rate of Fire	Up to 8 rpm
Crew	2-3
Ammo capacity	40 rounds
Platform	10x10
Traverse	360°
Deployment time	~ 30 sec



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