



105mm Artillery Ammunition

Proven reliability with superior performance

BAE SYSTEMS

About Us

At BAE Systems, we provide some of the world's most advanced, technology-led defence, aerospace and security solutions. We employ a skilled workforce of 90,500 people in more than 40 countries.

In an age of increasing change and uncertainty, where threats are escalating, technology is playing an essential part in our lives. Our role is critical in helping our customers and partners stay ahead as challenges and opportunities change. This takes many forms: from innovations which provide military advantage, to services and support solutions which maintain and enhance military assets.

Why Us?

We are proud to equip the British Armed Forces and international customers with a range of products, including:

- Small arms ammunition
- Medium calibre ammunition
- Mortar ammunition
- Artillery ammunition
- Naval ammunition
- Warheads and payloads

Our munitions have been proven in every possible environment, over many decades, with our specialist engineers working in partnership with our customers, to continually make performance improvements.

Our 105mm Artillery Ammunition

Our 105mm artillery ammunition has been the British Army's product of choice for over 50 years, delivering superior quality, reliable performance and advanced capability for soldiers.

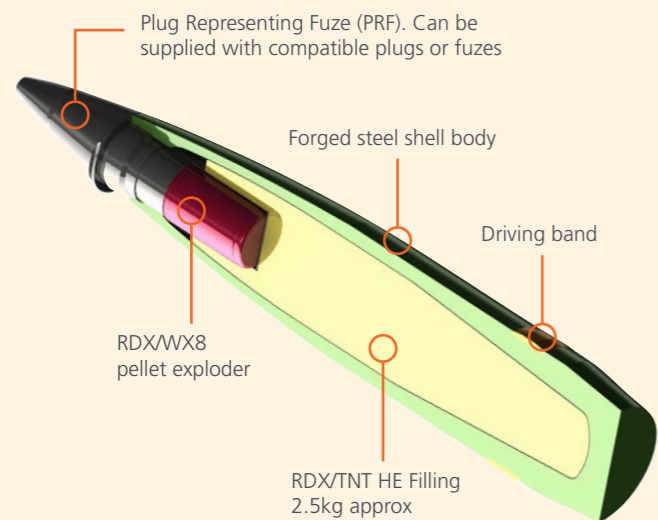
Our range of 105mm ammunition delivers a battle-proven area effect for the British Army and other armed forces around the world.

Our 105mm Artillery Ammunition

L31 High Explosive (HE)

- Comprises of a high tensile steel body, filled with RDX/TNT and fitted with a user selected fuze
- The lethal area is approximately 25% greater than the US M1 shell, with greater range and accuracy
- It is combat-proven and in service with the British Army and many armies worldwide

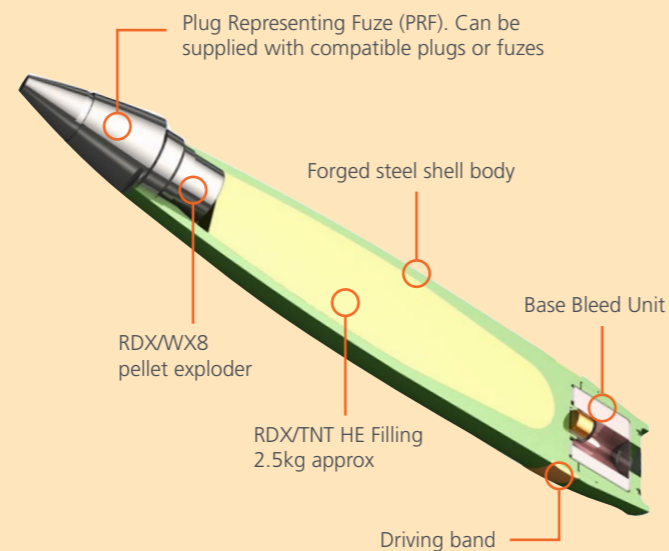
Overall length	550mm
Total weight	15.7kg
Net explosive content	2.5kg
High explosive content	RDX/TNT
Fuze type	Fuze cavities to STANAG 2916. Proximity, impact, and multi-role. Typically L174 and L166
Max range	L36: 17.2km
Gun compatibility	Royal Ordnance L118 Light Gun Abbot Self-propelled Gun L109
Effect	Blast Fragmentation
Qualification status	Currently in service with the UK MOD



XL32E1

- Comprises of a high tensile steel body, filled with RDX/TNT, a Base Bleed unit and is fitted with a user selected fuze
- The Base Bleed unit enables the shell to achieve a range of over 20km
- A thin-walled shell body, optimised for high fragmentation and blast effect

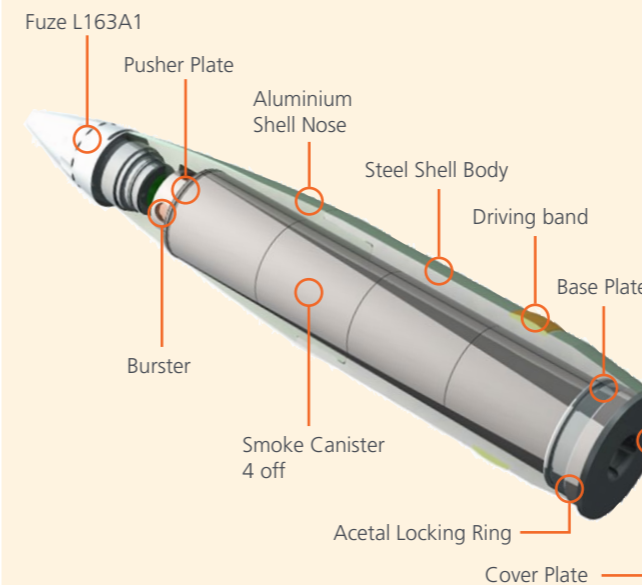
Overall length	614mm
Total weight	16.5kg
Net explosive content	2.5kg
High explosive content	RDX/TNT
Fuze type	Fuze cavities to STANAG 2916. Proximity, impact, and multi-role. Typically L174 and L166
Max range	L36: >20km
Gun compatibility	Royal Ordnance L118 Light Gun Abbot Self-propelled Gun L109
Effect	Blast Fragmentation
Qualification status	Currently undergoing qualification status



L52 Smoke

- Comprises of a fuzed steel body containing four smoke canisters
- A time fuze is set by the user to determine when the smoke canisters will be ejected, generating a persistent RP-type smoke

Overall length	548mm
Total weight	15.8kg
Net explosive content	2.4kg
Pyrotechnic content	RP based smoke composition
Fuze type	Fuze cavities to STANAG 2916. Typically L163 or DM52
Max range	L36: 17.2km
Gun compatibility	Royal Ordnance L118 Light Gun Abbot Self-propelled Gun L109
Effect	Provides persistent dense smoke screen, generated for 60 seconds
Qualification status	Currently in service with the UK MOD

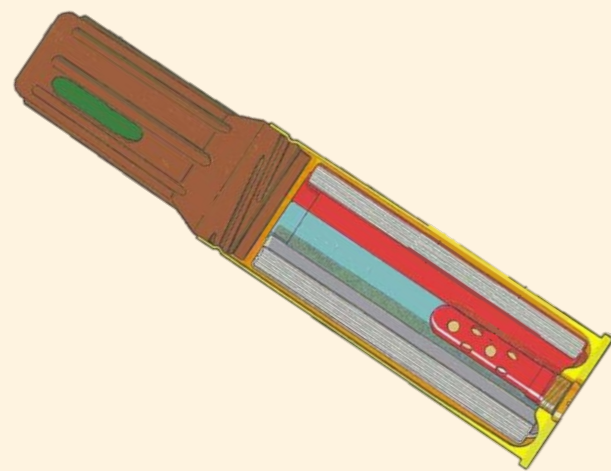


Our 105mm Propelling Charges

L35 Propelling Charge

- Comprises of a brass cartridge case, fitted electric igniter and five incremental charges
- Increments 1-4 are arranged around the cartridge wall
- Increment 5 is placed in the charge, holder which is attached to the top of the cartridge

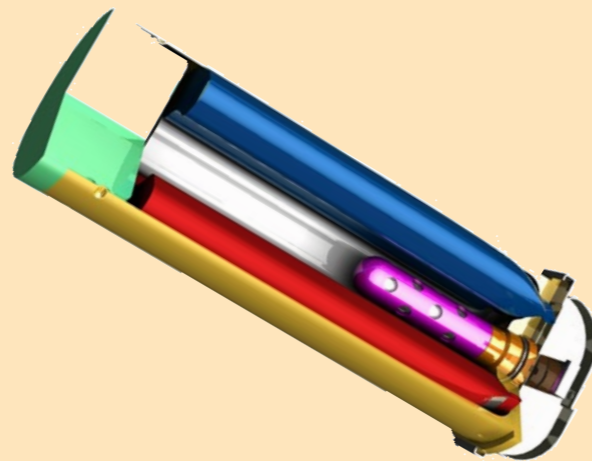
Overall length	520.8mm
Total weight	5.7kg
Net explosive content	2.4kg
Propellant	Triple Base
Max range	15.3km
Gun compatibility	Royal Ordnance L118 Light Gun Abbot Self-propelled Gun L109
Qualification status	Qualified and in service with the UK MOD



L45 Propelling Charge

- Comprises of a brass cartridge case, fitted electric igniter and three incremental charges
- Increments are arranged around the cartridge wall and one or two of the charge increments may be removed prior to deployment, depending on the projectile fired and the range required
- The cartridge provides cost effective, reduced range training in place of the L35 propelling charge

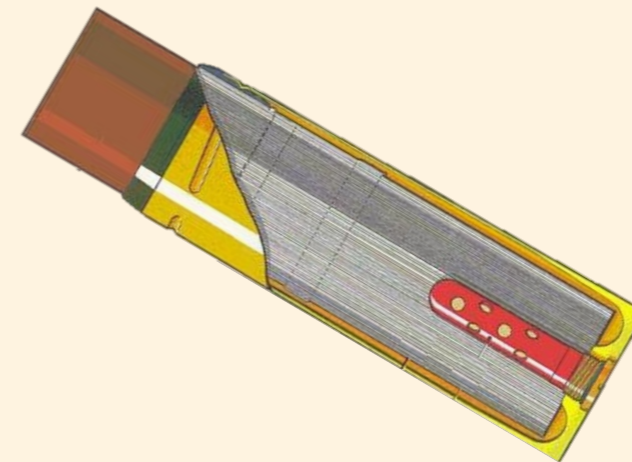
Overall length	326.5mm (excluding clip)
Total weight	4.1kg
Net explosive content	4.9kg
Propellant	Triple Base
Max range	9.5km
Gun compatibility	Royal Ordnance L118 Light Gun Abbot Self-propelled Gun L109
Qualification status	Qualified and in service with the UK MOD



L36 Propelling Charge

- Comprises of a brass cartridge case, fitted electric igniter and one charge
- The case is collared by a moulded plastic sleeve, lined with a cloth bag and secured by cement, to form a single non-detachable unit

Overall length	520.8mm (excluding clip)
Total weight	5.7kg
Net explosive content	2.9kg
Propellant	Triple Base
Max range	17.2km
Gun compatibility	Royal Ordnance L118 Light Gun
Qualification status	Qualified and in service with the UK MOD



Our Fuze

L174 Fuze

- Point Detonating Super Quick mechanical fuze
- Designed for use with 105mm and 155mm High Explosive (HE) shells
- Derivative of the proven L106 design, incorporating the safety and arming unit from the L166 fuze
- Graze mechanism provides reliability at low angles

Overall length	151.6mm
Total weight	1.03kg
Net explosive content	0.0116kg
Fuze type	Direct Action and Graze
Qualification status	AOP20 qualification for UK training use

Engineering the Future

Staying one-step ahead of the enemy is key on the modern battlefield. Having the right equipment, in the right place, at the right time is essential to provide advantage.

Our world-class scientists and engineers are continually pushing the boundaries, to deliver a tactical edge.

We provide the highest quality, cutting-edge products, to equip those who protect us.

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