



155mm Artillery Ammunition

Proven reliability with superior performance

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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 over 110,000 people in more than 40 countries.

In an age of change and increasing 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, from delivering innovations that provide military advantage, to offering services and support solutions that maintain, enhance and extend the life of vital 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
- Advanced weapons

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 155mm Artillery Ammunition

Our 155mm 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.

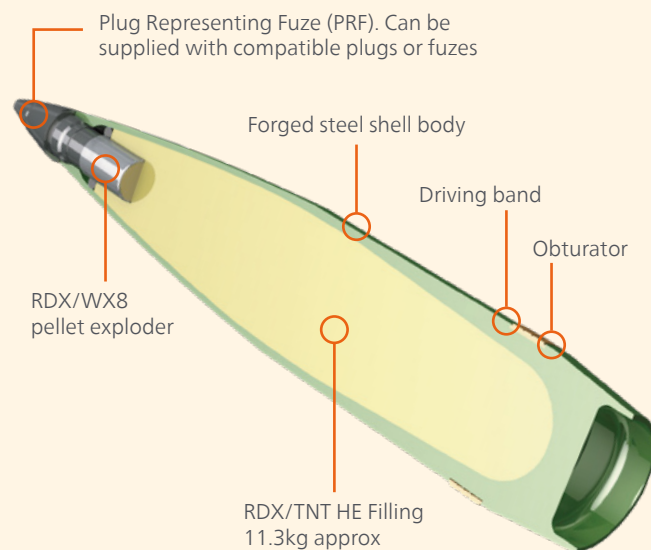
Our range of 155mm ammunition is designed in accordance with NATO Joint Ballistics Memorandum of Understanding (JBMOU) principals and is qualified to STANAG requirements.

Our 155mm Artillery Shell

L15 High Explosive (HE)

- Designed for use with a range of 155mm guns
- Comprises of a high tensile, steel body and is fitted with a user-selected fuze, for greater operational flexibility
- A thin-walled shell body, optimised for high fragmentation and blast effect
- Combining advanced technology with logistic simplicity, giving the user higher performance, in a cost effective manner

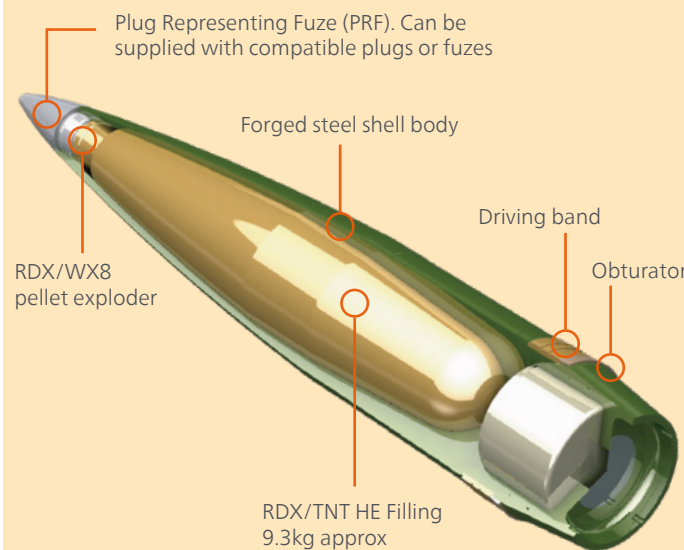
Overall length	874mm (including fuze)
Total weight	43.5kg
Net explosive content	11.3kg
High explosive content	RDX/HMX/TNT
Fuze type	Fuze cavities to STANAG 2916. Proximity, impact and multi-role. Typically L174 and L166
Max range	JBMoU L/39: 24.7km
Max range	JBMoU L/52: 32km
Effect	Blast Fragmentation
Qualification status	Currently in service with the UK MOD in both 39 and 52 calibre platforms



XL12E1 High Explosive (HE) Extended Range (ER)

- A mature design
- The shell body is adapted from the L15 High Explosive (HE) shell
- A screw-on base bleed unit can be used to optimise range extension whilst maximising lethality

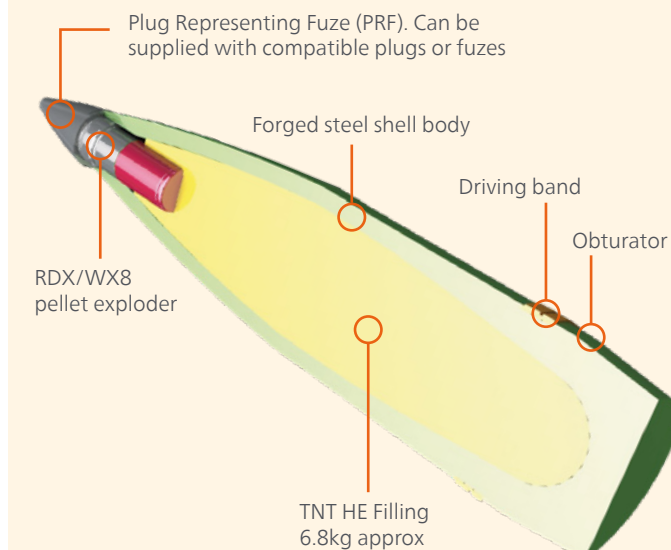
Overall length	899mm (including fuze)
Total weight	43.5kg
Net explosive content	9.3kg
High explosive content	RDX/HMX/TNT
Fuze type	Fuze cavities to STANAG 2916. Proximity, impact and multi-role. Typically L174, L166 or CCF
Max range	JBMoU L/39: > 30km
Max range	JBMoU L/52: 40km
Effect	Blast Fragmentation
Qualification status	Greater than 40km achieved through trials



L21 High Explosive (HE)

- Ballistically matched to the M107, as used by US military
- The shell is fitted with a removable nose plug, providing the user with greater operational flexibility, through choice of fuze

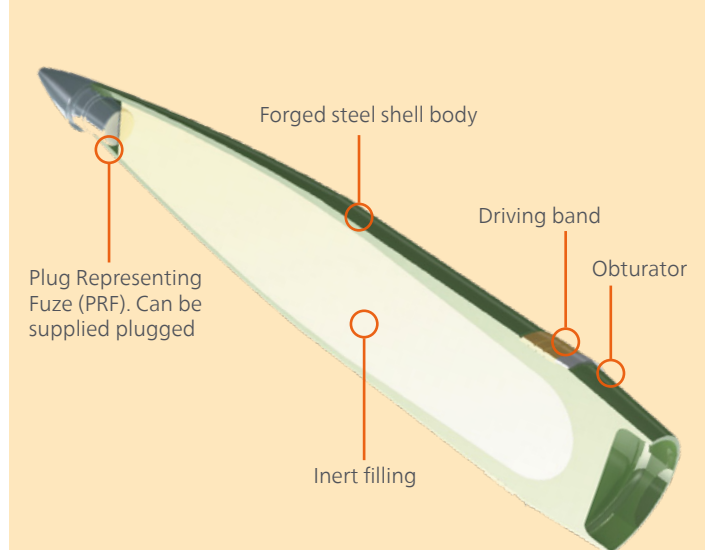
Overall length	699.5mm (including fuze)
Total weight	43.5kg
Net explosive content	6.8kg
High explosive content	TNT
Fuze type	Fuze cavities to STANAG 2916. Proximity, impact and multi-role. Typically L174 and L166
Max range	Typically 17.8km from a 39 Cal weapon system
Effect	Blast Fragmentation
Qualification status	Currently in service with the UK MOD in both 39 and 52 calibre platforms



L17 Inert

- For use in gun proving, gun warming and handling practice
- Ballistically matched to the L15 High Explosive (HE) shell
- Fitted with a Plug Representing Fuze (PRF)
- Steel body with inert filling

Overall length	874mm (including fuze)
Total weight	43.5kg
Net explosive content	N/A (inert)
High explosive content	N/A (inert)
Fuze type	Plug representative fuze
Max range	JBMoU L/39: 24.7km
Max range	JBMoU L/52: 32km
Qualification status	39 Cal: Currently in service with the UK MOD 52 Cal: Mature design pending qualification

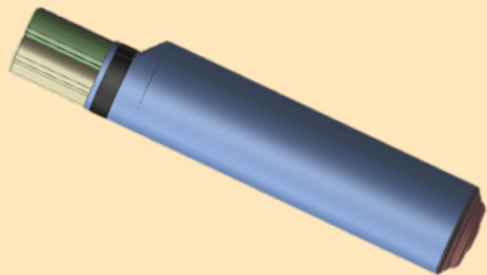


Our 155mm Propelling Charges

L8 Propelling Charge

- Consists of a cloth bag containing charge increments three to seven, increments four to seven being removable
- Ignition is by base igniter pad, contained in charge increment three and a breech-loaded percussion primer
- A flash reduction agent is included in increment five and a de-coppering agent in increments five, six and seven

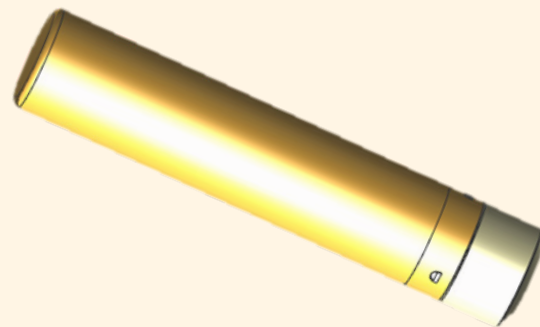
Overall length	780mm
Total weight	8.1kg
Net explosive content	7.5kg
Propellant	Triple Base
Max range	19.6km (L15 High Explosive (HE) 155mm shell)
Qualification status	Qualified and in service



L10 Propelling Charge

- Consists of a combustible case containing a single bundle of propellant and an igniter and disc assembly
- A de-coppering agent is included in the charge

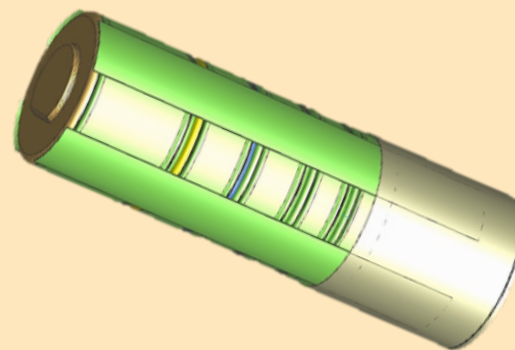
Overall length	763mm
Total weight	13.4kg
Net explosive content	12.3kg
Propellant	Triple Base
Max range	24.7km (L15 High Explosive (HE) 155mm shell)
Qualification status	Qualified and in service



L18 Propelling Charge

- Used for training, the charge system consists of five increment charges of unequal size to provide coverage for all zone firings
- A flash reduction agent is included in the propellant composition and a de-coppering agent is included in increment four
- The propellant is contained in cloth bags. The complete charge is secured together by cloth tying straps, attached to the base charge

Overall length	406mm
Total weight	2.5kg
Net explosive content	2.5kg
Propellant	Triple Base
Max range	10km (L15 High Explosive (HE) 155mm shell)
Qualification status	Qualified and in service



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.

